

Hisense

COMFORT AIR SOLUTION

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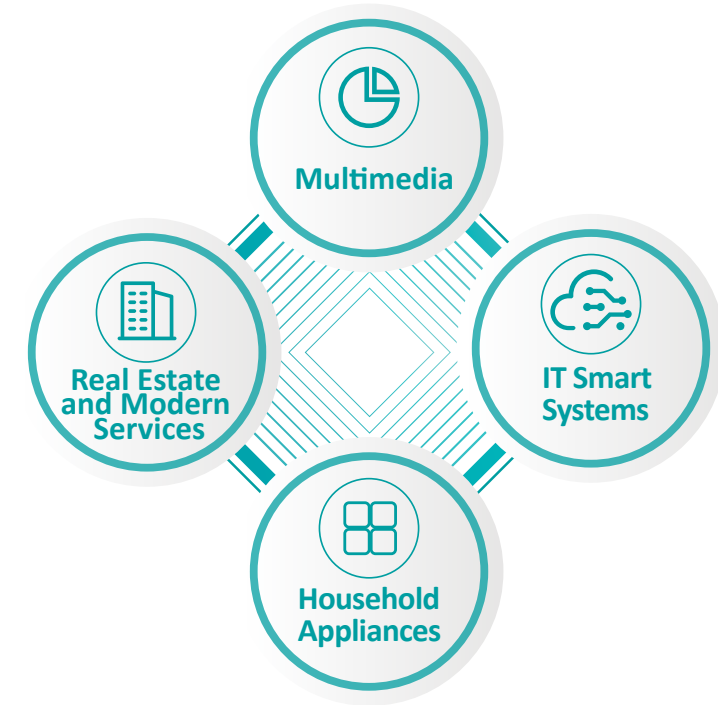


COMPANY PROFILE

Qingdao Hisense HAVC Equipment Co., Ltd. is a wholly owned subsidiary of Qingdao Hisense Hitachi Air-conditioning Systems Co., Ltd., who is a joint-venture of Hisense Group and Hitachi Air Conditioning (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 Group and Johnson Control Hitachi, Hisense VRF is committed to becoming the market leader in the industry.



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



Hisense

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Key Features & Benefits

RELIABILITY
EFFICIENCY
COMFORT
FLEXIBILITY

Outdoor Unit

Hi-FLEXi S SERIES HEAT RECOVERY
Hi-FLEXi S SERIES HEAT PUMP
Hi-FLEXi G+ SERIES HEAT PUMP
Hi-FLEXi W SERIES WATER SOURCE HEAT PUMP
Hi-SMART H SERIES HEAT PUMP

Indoor Unit

4-WAY CASSETTE TYPE
MINI 4-WAY CASSETTE TYPE
CEILING DUCTED TYPE
1-WAY CASSETTE TYPE
2-WAY CASSETTE TYPE
CONSOLE TYPE
WALL MOUNTED TYPE
CEILING & FLOOR TYPE
FLOOR CONCEALED TYPE

Control System

INDEPENDENT CONTROLLER
CENTRALIZED CONTROLLER
Hi-DOM III
BMS

Accessory

Support

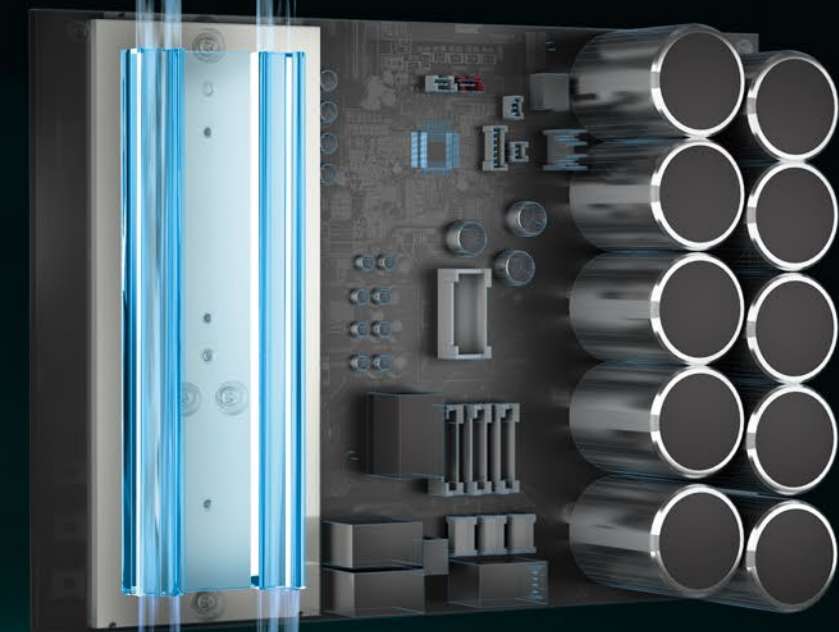
CONTENTS

HIGH
RELIABILITY

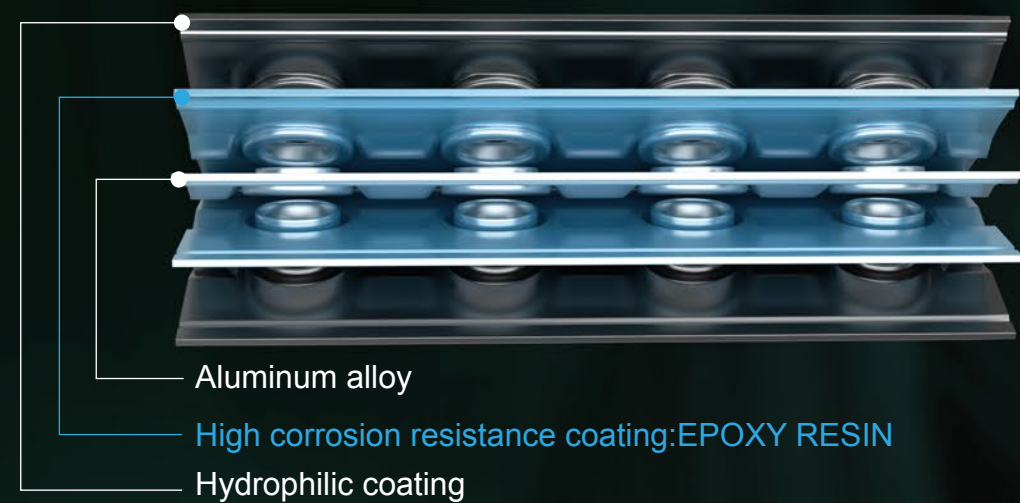
RELIABILITY

Not only 360° fitted refrigerant cooling technology which optimizes new and whole heat sink, but also black fin (optional) carries out the overall protection, extending units' life.

The comprehensive and best technologies maintain system stability and reliability.

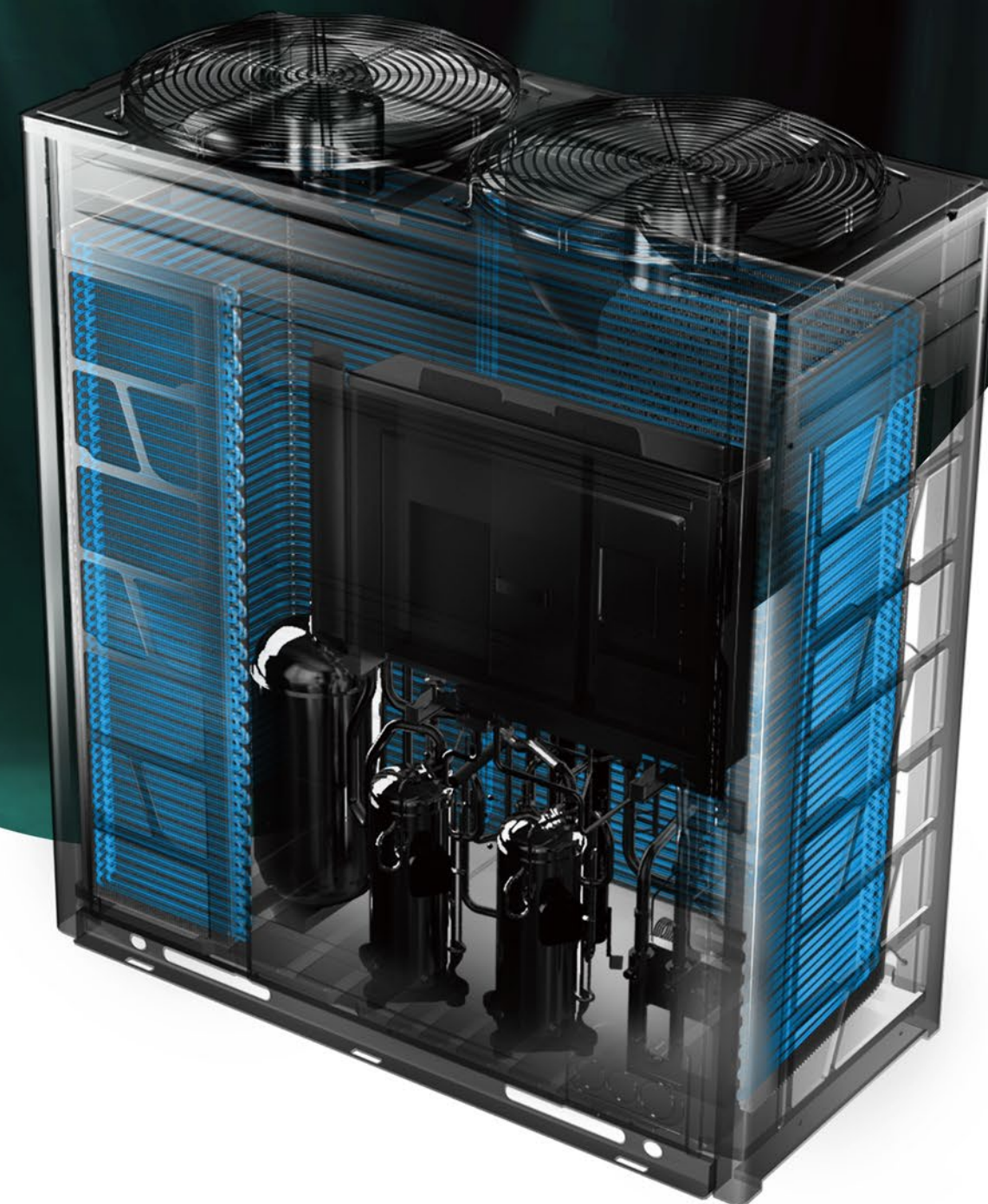


- Improve efficiency and reliability of the electronic components
- Reduce electromagnetic noise

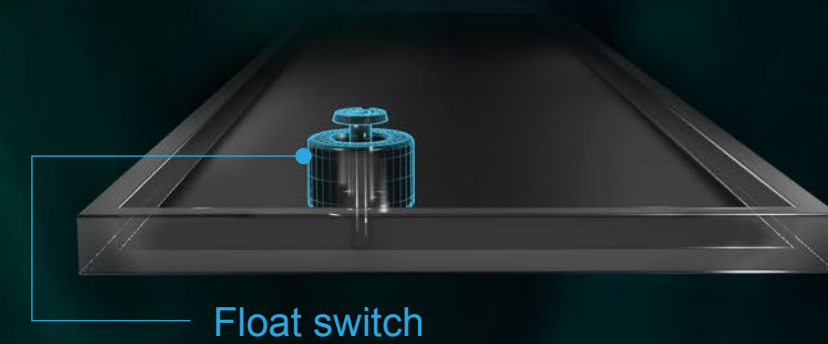
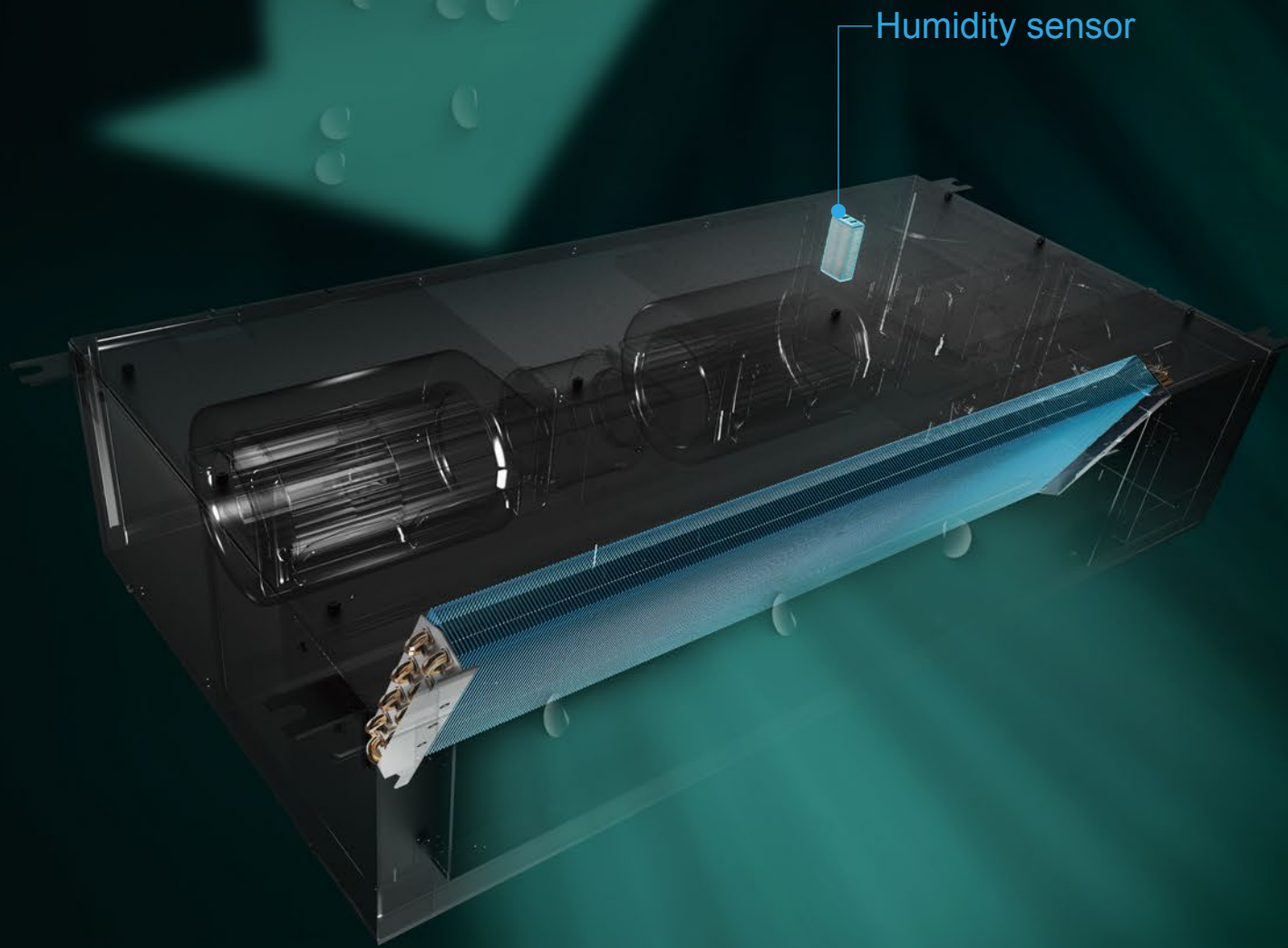


RELIABILITY

Hisense anti-corrosive fins are coated with epoxy resin using film-forming techniques while the traditional resins are acrylic resins. The epoxy resin is 1.5 times thicker than acrylic resin, and its acid-resistant, alkali-resistant and salt-fog resistant properties is 3 times better than acrylic resin.



HIGH
RELIABILITY



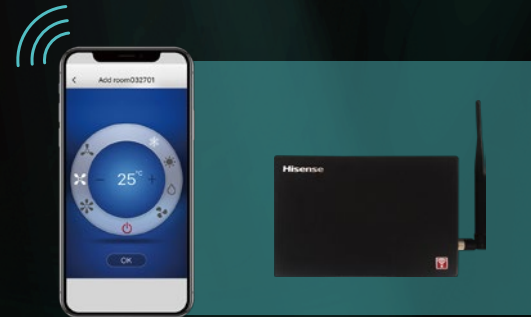
COMFORT

Although all variables of the air cannot be controlled or affected completely, Hisense VRF can have a positive impact by regulating the temperature, humidity and moisture in the air. To choose humidity sensor installed in the IDU and match the appropriate controller, it is more comfortable to adjust humidity of room and achieve dehumidification function. The humidity sensor has more precise to control the humidity that can effectively inhibit the growth of bacteria and create a comfortable or healthy environment.

HIGH
COMFORT



Hi-Motion



Hi-Mit



Hi-DOM III



HIGH INTELLIGENCE

INTELLIGENCE

What is business intelligence? Now, human need intelligence in all ways. Control whole system only need a computer or a phone. You can know all running conditions. It is very timely to find problems and solve them.

Individual billing system realizes more precise electric charge calculating to manage efficiently. Enjoy the life of modernization.



KEY FEATURES & BENEFITS

RELIABILITY

EFFICIENCY

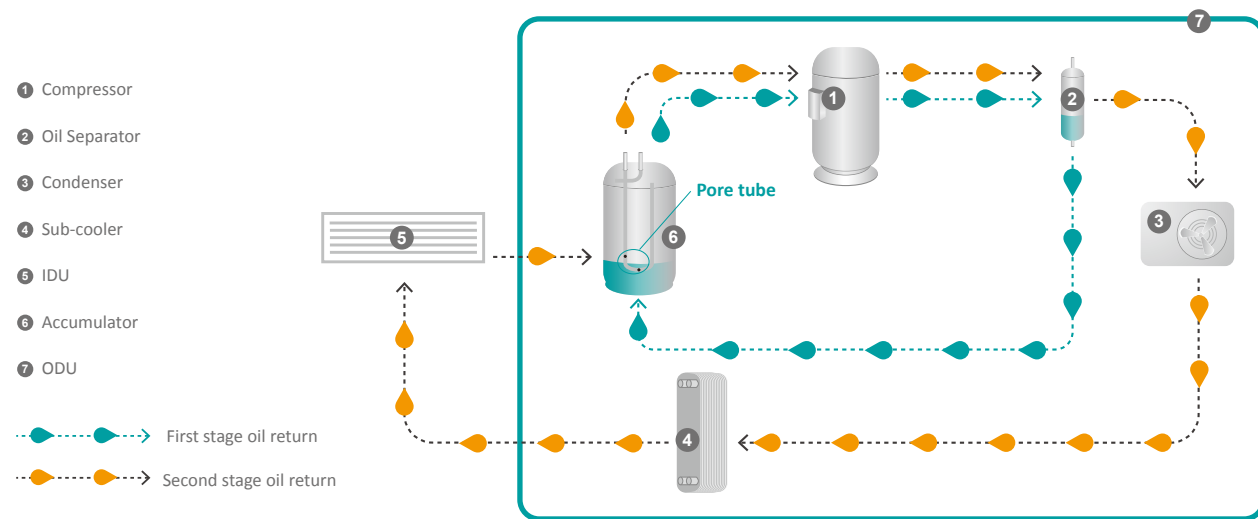
COMFORT

FLEXIBILITY

RELIABILITY

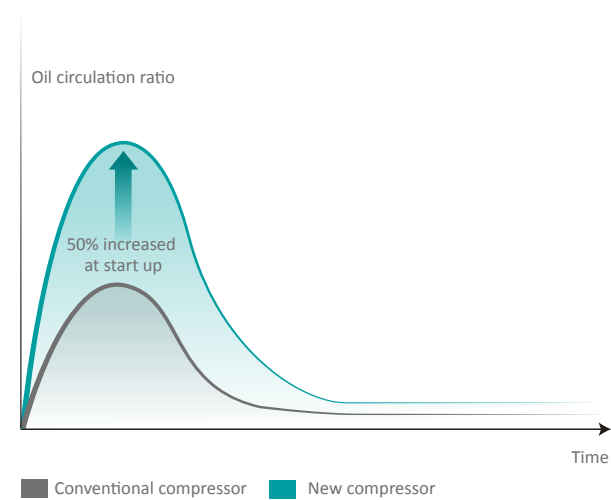
System oil cycle

The role of oil is extremely critical in maintaining the reliability and performance of compressor. When the second stage oil is lesser, the compressor will have higher reliability.



Oil retaining capability

The new compressor now has greater improvement in reliability by enhancing the oil retaining capability by 50% with an "oil cup" embedded which prevents compressor bearing to fail due to lack of oil lubricating the inner rotating component.



Needless of oil balancing pipes

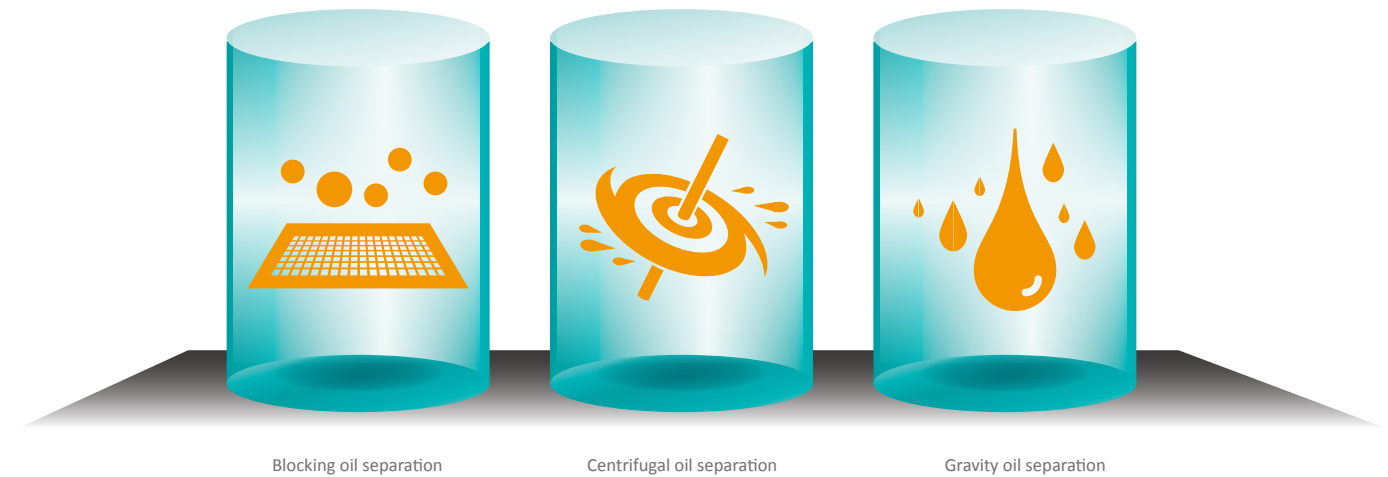
Hence oil balancing pipes creating extra cost and hassle during installment are unnecessary. Absence of oil balancing piping system, prevents system pressure and temperature fluctuations thus maintaining overall system's continuous stability.



RELIABILITY

Oil separation

First-stage oil separation is realized through efficient oil separation structure inside the 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%.



Double back-up protection

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

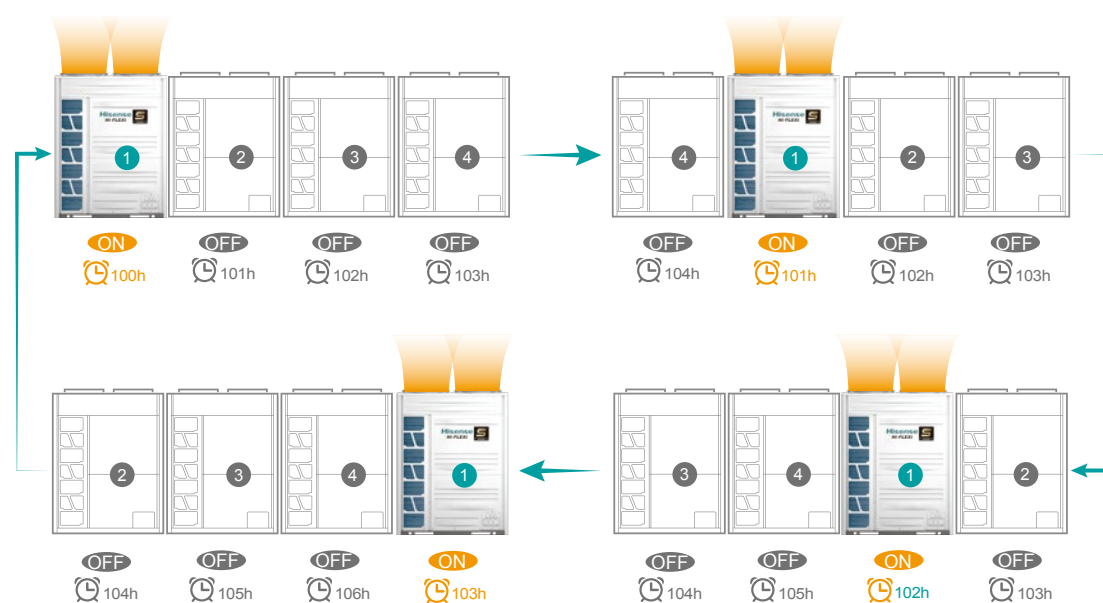


Note: If you have any needs, please contact our engineers.

RELIABILITY

Smart rotative operation

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



Anti-corrosion solution

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

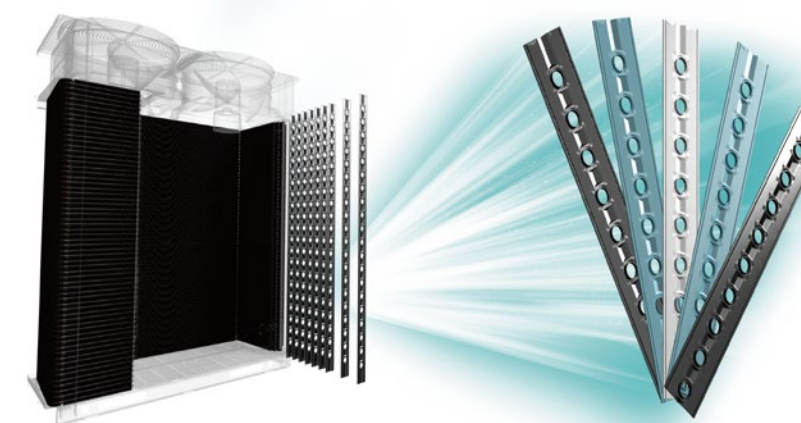
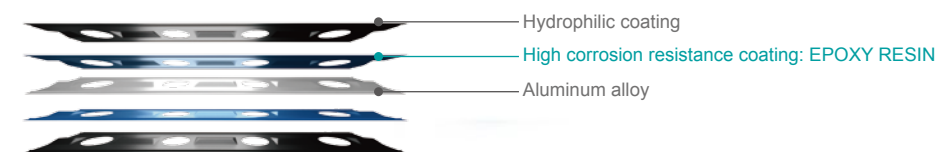
- 1 Front Panel
- 2 Heat Exchanger
- 3 Electrical Box
- 4 Fan Motor
- 5 Top Grill
- 6 Motor Bracket
- 7 Protection Net
- 8 Pressure Vessel



RELIABILITY

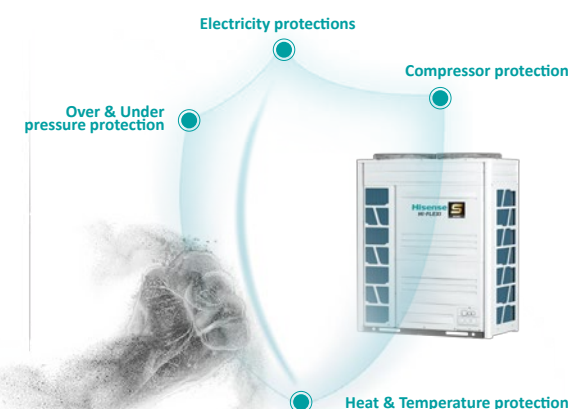
Hi black fin

Hisense anti-corrosive fins are coated with epoxy resin using film-forming techniques while the traditional resins are acrylic resins. The epoxy resin is 1.5 times thicker than acrylic resin, and its acid-resistant, alkali-resistant and salt-fog resistant properties is 3 times better than acrylic resin.



Self-protection

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



Electro-magnetic protection

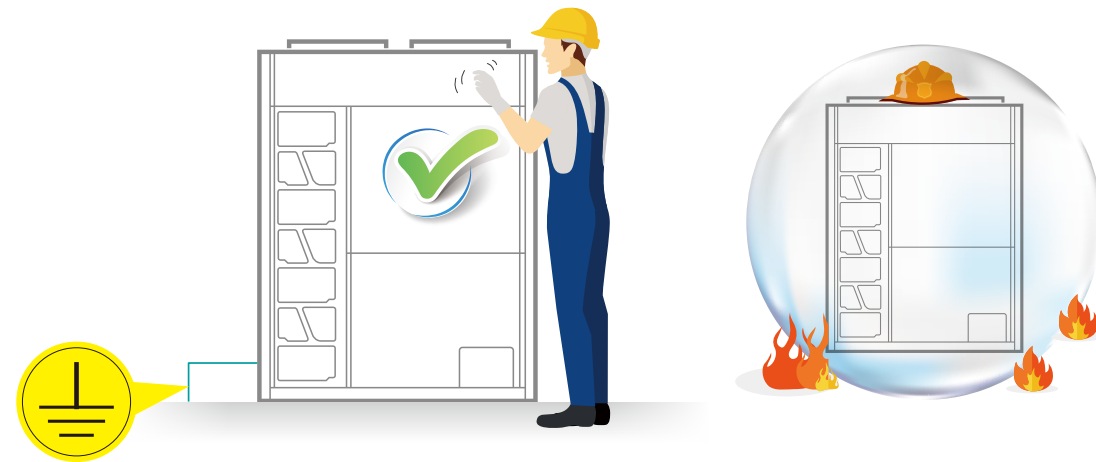
Air-conditioning units produced by Hisense VRF requires strict electromagnetic protection. As to overcome such inevitable natural phenomenon to cause damages, 4000V sudden high voltage tests are infused into the long list of electromagnetism quality tests in our internationally qualified test laboratories.



RELIABILITY

Safety protection

Electricity leakage are exposing humans to high safety risk. Hence electrical leakage radioactive emission, proper earthing, extreme high temperature, fire retardation and electrical insulation are strictly essential tests to be done on Hisense VRF equipment to meet more than standards and certifications.



Extreme weather withstand ability

Weather changes are sometimes unpredictably causing air-conditioning units especially ODU constantly operating at inconsistent environment and experiencing different challenges.

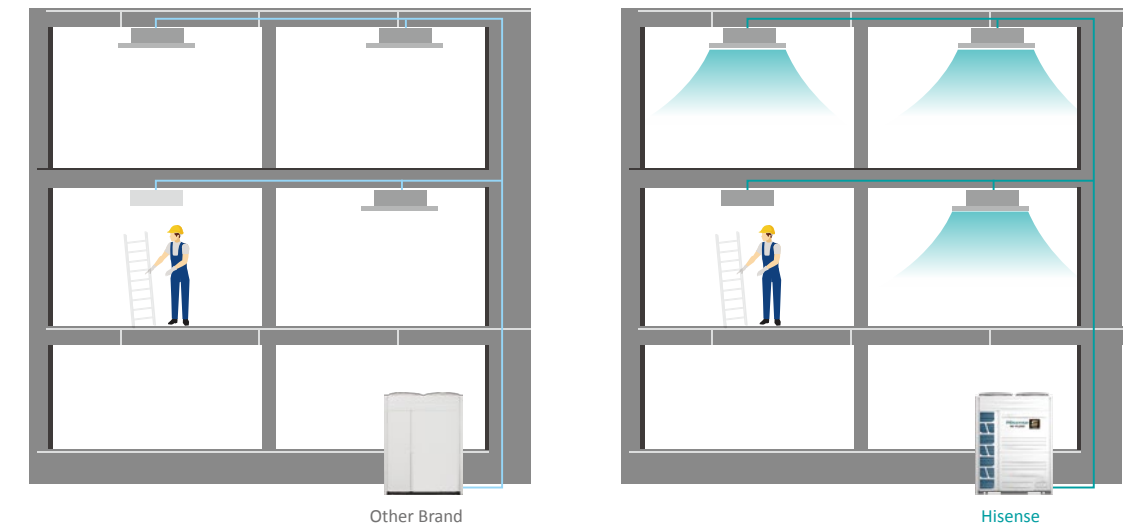
Hisense VRF air-conditioning units are put into extreme factory laboratory tests numerous times with various setting and condition parameters like intense low outdoor temperature, extreme high indoor temperature and vice versa to ensure Hisense VRF performs at its best, rain or shine.



RELIABILITY

Independent maintenance

Hisense VRF is capable to isolate the malfunction unit from the others while conducting restoration and maintaining continuous operation of other units simultaneously. Especially practical for retail shops or offices where multiple indoor units share the same system, there is a breakdown or powered cut-off during renovation of a shop does not affect shops of the same system from routine business operation.



Reliability transportation

To make sure Hisense VRF units' capability to perform more than just coping to such conditions, strict laboratory assessments are required using simulators mimicking the real shipping conditions of upto 6000 km and longer road and sea distance.

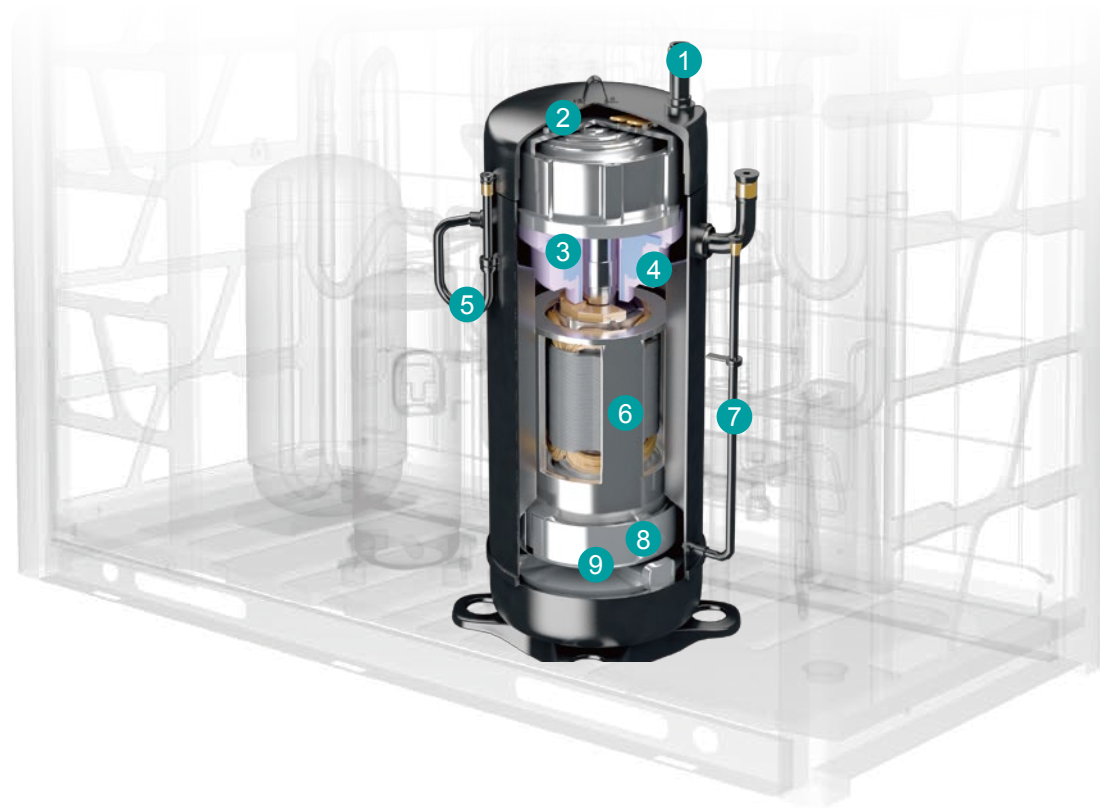
Hence, tested to be capable to be shipping from China to Americas without damages, good as new.



EFFICIENCY

Generation of enhanced vapor injection scroll compressor

Hi-FLEXi S Series adopts a new generation of the high efficiency scroll compressor with vapor injection technology. It can greatly enhance the heating performance and achieve high energy-saving efficiency. Powerful heating is guaranteed by Hi-FLEXi S Series, especially under low temperature with heating performance increased by 25%, compared with the standard model.



1 New Air Suction Structure

Improve compressor efficiency under fast rotation speed condition, increase compressor stability under strong load mode.

2 Overpressure Releasing Valve

Increase efficiency by reducing compression loss, especially for medium and low capacity conditions.

3 Driven-frame Structure

High performance technology by reducing leakage loss and friction loss.

4 Special Exhaust System

Minimum oil loss and saving oil within the compressor.

5 Vapor Injection Design

6 High-efficiency Motor

High efficiency by rare earth magnet and special designed motor.

7 Oil-balance Pipe

Improve units reliability.

8 Oil-separation Structure

High reliability by keeping oil in the compressor by this separation plate.

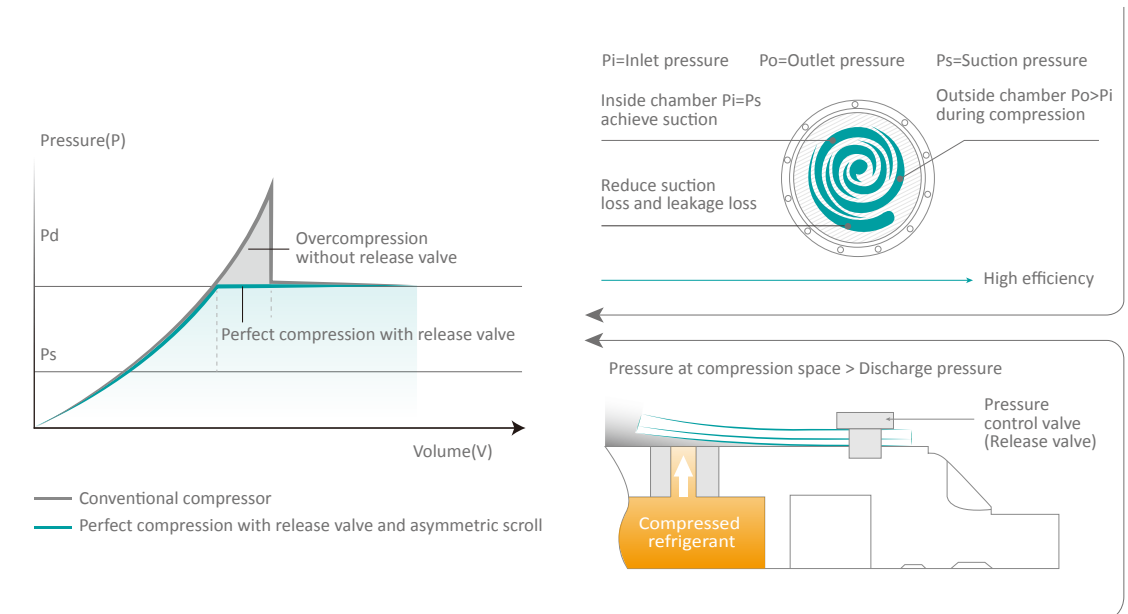
9 PVE Oil

Using PVE oil ensuring a high reliable and long life.

EFFICIENCY

Efficient energy usage

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

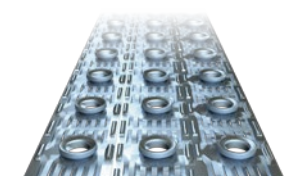


New advanced corrugated fin design

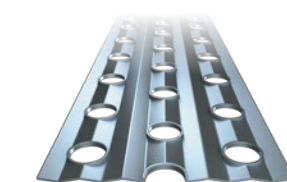
A new commitment is made on new fin design to create better efficiency and more durable heat exchanger. With this new design, larger amount of fins can be allocated into the heat exchanger, increasing 22% heat exchange surface area.

As to improve heating capability, the new design fins are 40% more tolerant to frost, stretching out indoor heating time interval and further enhancing user's coziness. Heating time interval are tested to reach 50% increment compare to previous models.

Features and Benefit		
Air Flow Resistance	Decreased 20%	↓
Total Heat Transfer Area	Improved 21.4%	↑
Heating Capacity Without Frost (Test Condition 7°C DB / 6°C WB)	Improved 1-3%	↑
Heating Capacity When Frosting (Test Condition 2°C DB / 1°C WB)	Improved 8-12%	↑
Ability to Resist Frost	Improved 40%	↑
Anti-corrosion Ability		↑



Stepped fins

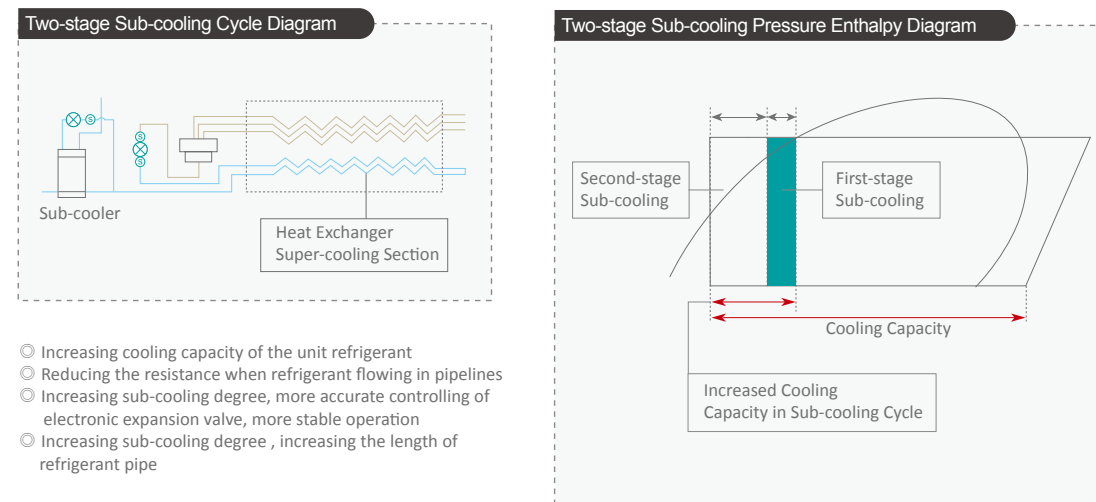


Corrugated fins

EFFICIENCY

Two-stage sub-cooling technology

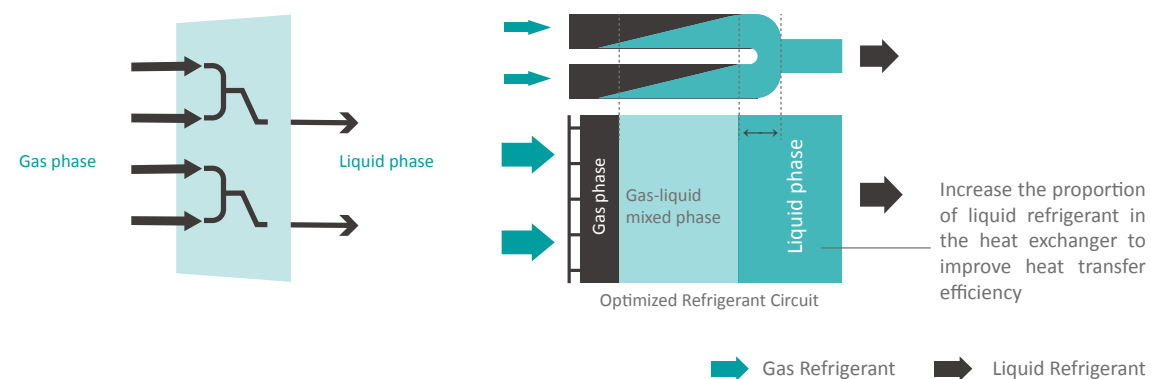
The cooling section of the outdoor heat exchanger is uniquely designed to be more effective than the traditional outdoor units of the multi-split air conditioner without a sub-cooling design. First-stage sub-cooling can reduce temperature by 12.5°C while second-stage sub-cooling can help achieve up to 27°C for efficient sub-cooling.



Optimized refrigerant circuit

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

2-to-1 Refrigerant flow path

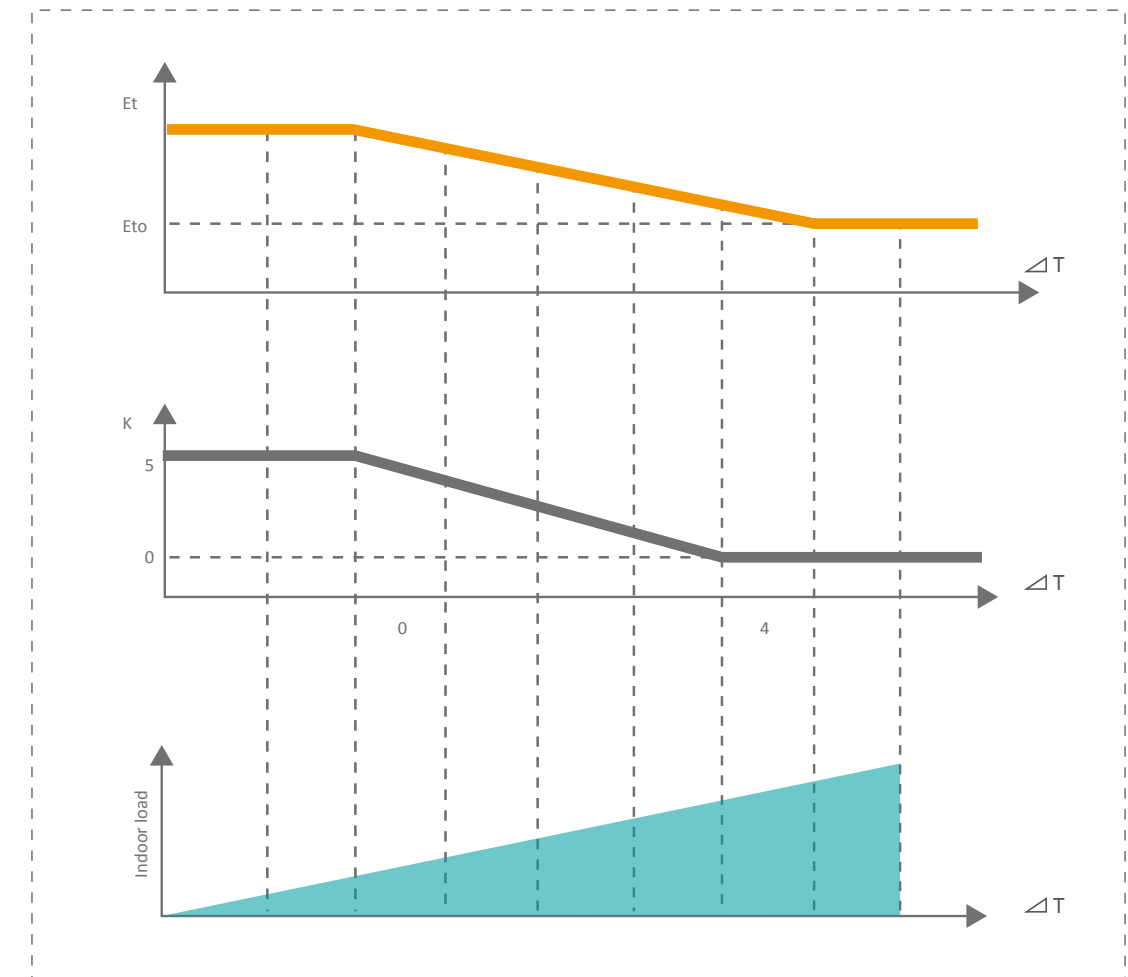


EFFICIENCY

Hisense refrigerant temperature control

Features:

- 1) Evaporating temperature can be adjusted between 2°C to 16°C which is the widest on the market.
- 2) Rapidly cooling depends on the lower evaporating temperature.
- 3) Preventing cold draft bases on the higher evaporating temperatures.
- 4) Saving energy by increasing seasonal efficiency.



Refrigerant evaporation temperature: $E_t = E_{t0} + K$

Evaporating temperature control could be adjusted based on the difference between the indoor temperature (T_{in}) and the setting temperature (T_{set}).

$$\Delta T = T_{in} - T_{set}$$

E_t : evaporating temperature

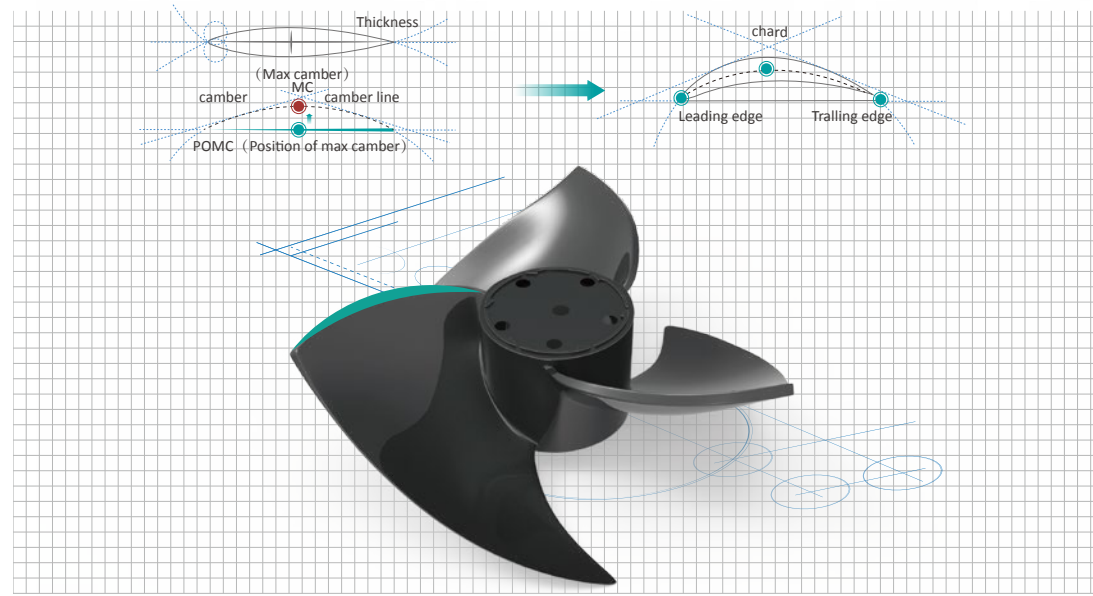
E_{t0} : initial value of evaporation temperature, E_{t0} can be adjusted through the outdoor unit setting.

K can be automatically adjusted according to the difference between the indoor temperature and the setting temperature ΔT .

EFFICIENCY

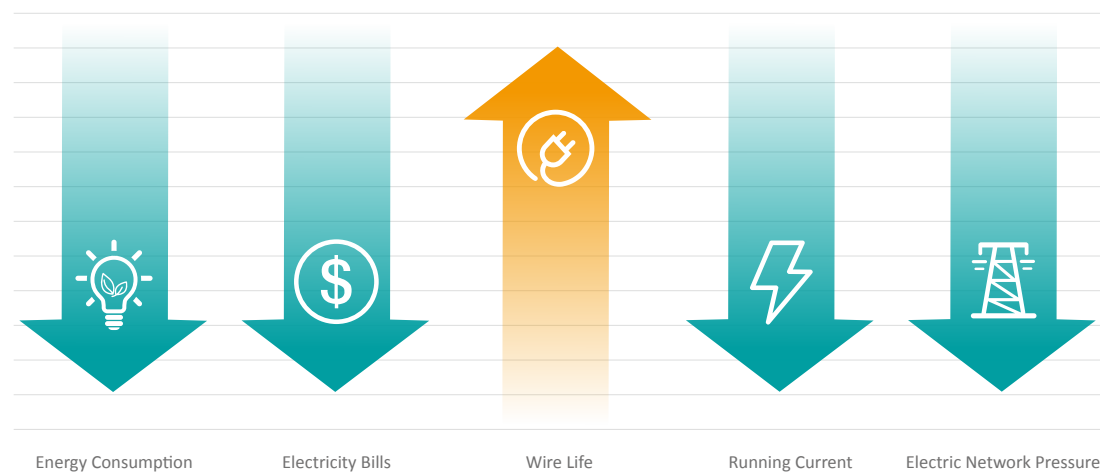
High efficiency aerodynamic axial fan

Fan blades are aerodynamically designed to reduce energy wastage in converting power consumed to unnecessary noise energy, reserving the energy to improve on flowrate performance and static pressure. Integration with brush-less DC fan motor further improves the efficiency and noise of the propeller structure.



Demand mode

The intelligent demand mode can adjust the air conditioning automatically according to peak-valley requirements of electricity. It achieves balance between comfort and energy-saving while meeting the power demand for daily work.

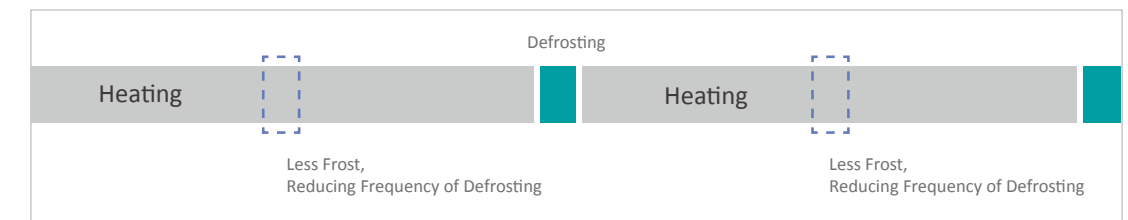


COMFORT

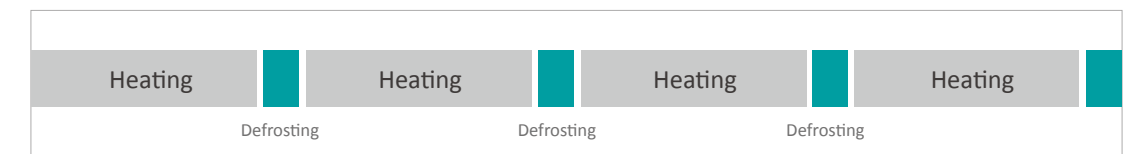
PTT defrosting mode

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

Hisense's Optimal Defrosting Mode

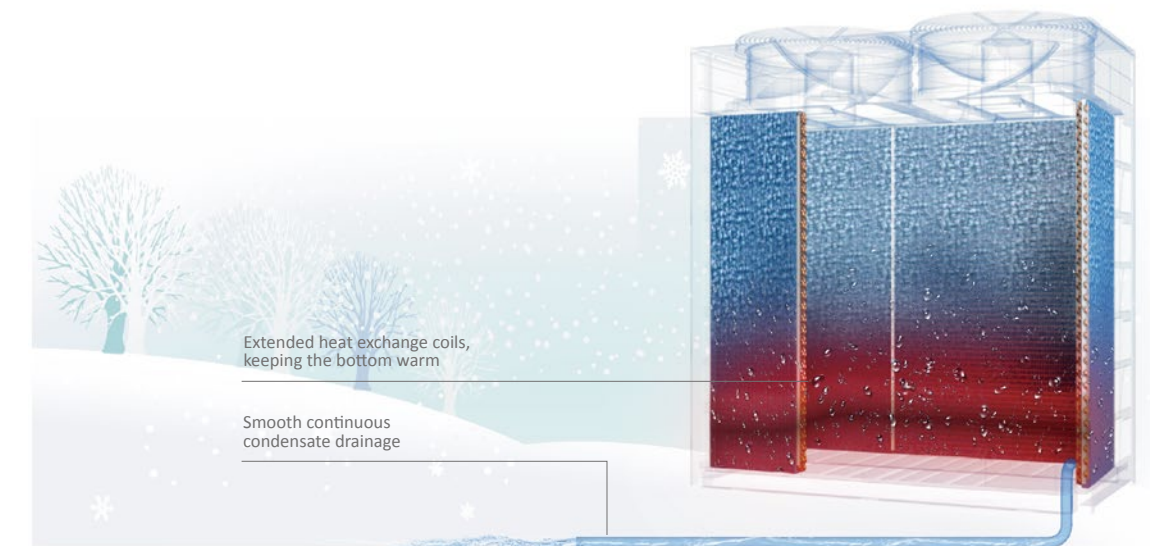


Traditional Defrosting Mode



Bottom anti-frosting structure

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

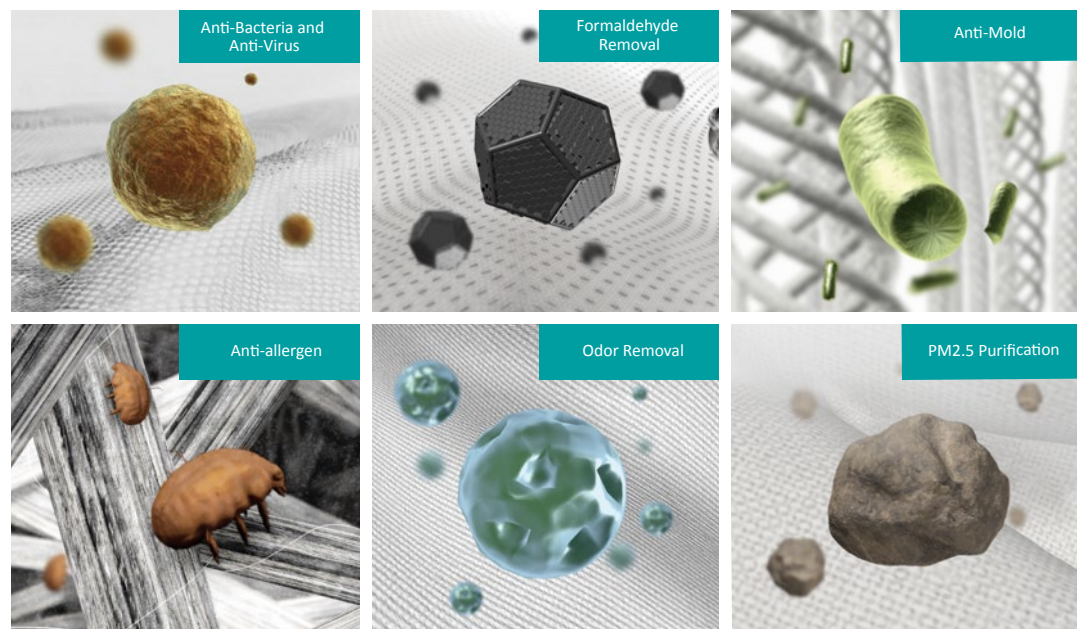


COMFORT

AirPure

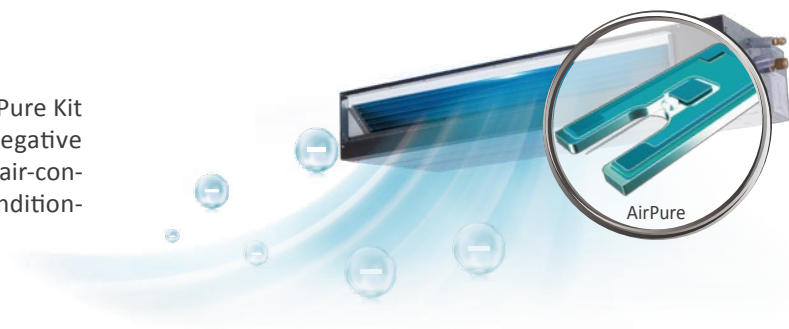
Do you often bother with the poor air quality after staying for a long time in a confined room? Hisense VRF AirPure effectively purifies the air-conditioned space and keeps us safe and healthy.

All-in-one Purifying Ionizer



Application

Hisense VRF indoor unit equipped with AirPure Kit can release lots of negative ions. These negative ions are carried throughout the room with air-conditioned air flow whereby obtaining air conditioning and air purification simultaneously.



Note: *Ceiling ducted type with capacity from 0.8HP to 6HP

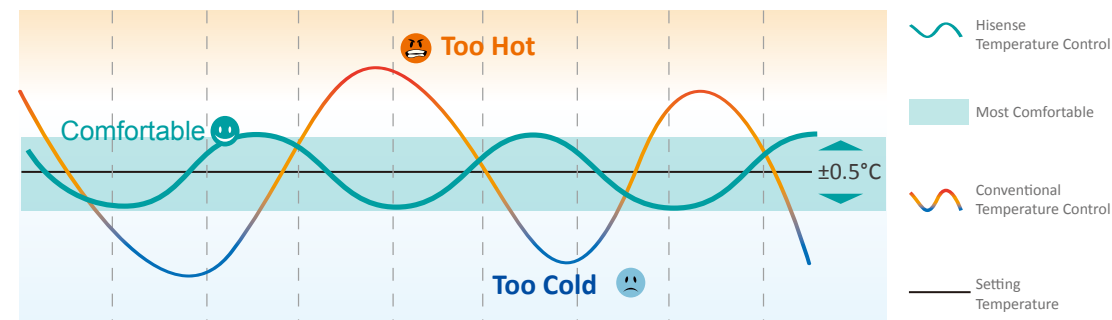
COMFORT

Precise temperature control

Hisense VRF provides very close tolerance of temperature in the range of $\pm 0.5^{\circ}\text{C}$, reduces temperature fluctuation and effectively maintains the desired temperature.

Precisely judge indoor temperature:

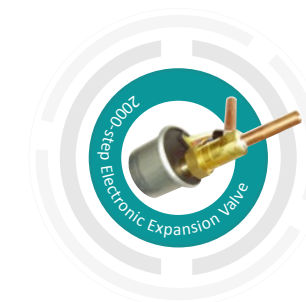
- (1) Air return temperature sensor
- (2) Temperature sensor on wired remote controller
- (3) Based on the average value suitable for irregularly shaped room



Precisely judge

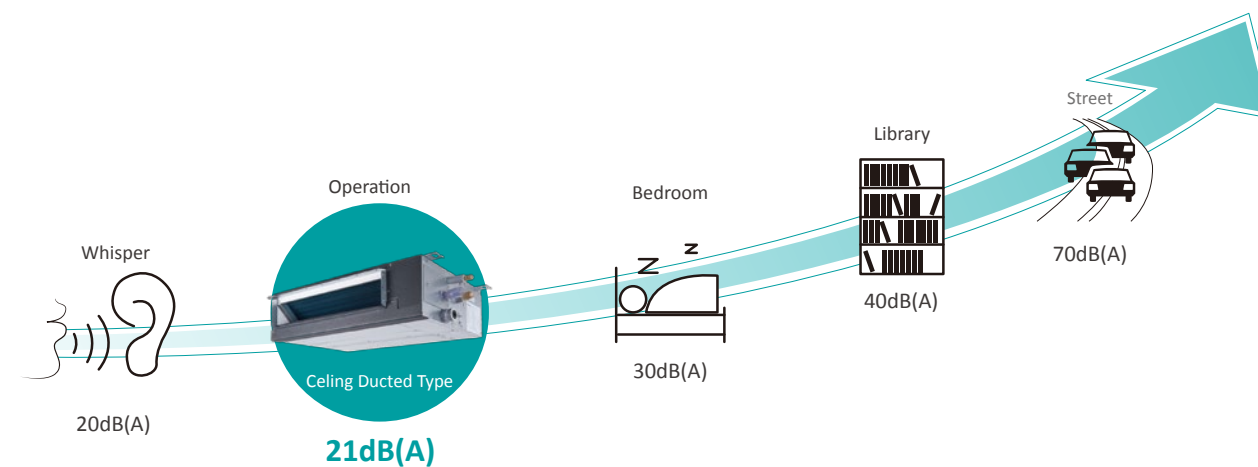
$\pm 0.5^{\circ}\text{C}$ tolerance is made true by high quality and high precision 2000 steps electronic expansion valve (EEV) used to control refrigerant flow more precisely depending on the real-time room temperature feedbacks from temperature sensors on controllers and indoor units.

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



Lower noise

Noises are often a pain in the neck, especially when we're trying to put our mind into something. Working, studying even exercising and relaxing needs concentration. Hisense VRF offers indoor units with sound pressure level as low as 21dB(A). Perfectly blends into library, auditoriums and hospital rooms where requires sound levels lower than 25dB(A).

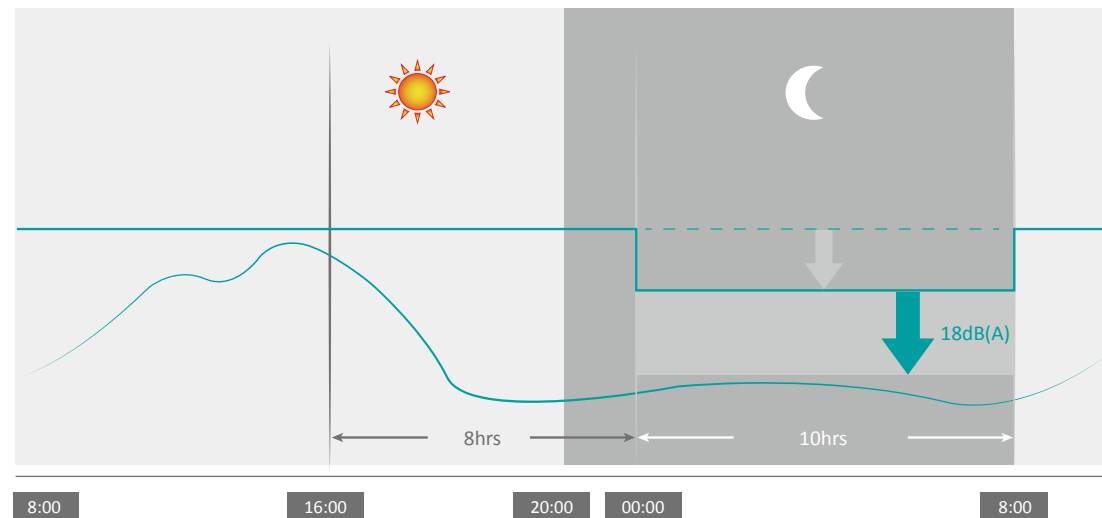


Note: The data was measured in an anechoic chamber, only the DC ceiling ducted type (AVE-05HJFDL) in low noise mode achieves 21dB.

COMFORT

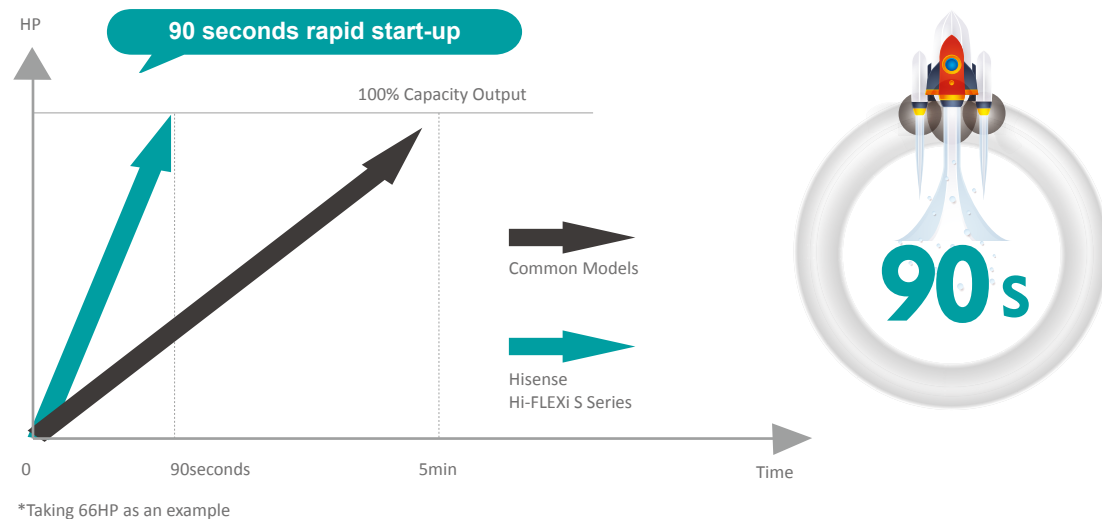
Night mode

When outdoor conditions call for special low noise requirements, like in cases where outdoor units are installed in indoor equipment rooms with poor soundproof walls or continuous night operating conditions. Fear not, we've got you covered with our night mode to reduce sound pressure levels upto 30% routinely with flexible time intervals to meet different customer needs.



90s rapid heating start-up

Cold freezing days are sometimes so difficult to bare with, especially after a day out under the crisp frosty air. To keep you comfortable and cozy as fast as possible, Hisense VRF starts supplying warm air so rapidly with only just 90s reaching a 100% capacity output. A total of 30% improvement from our old models which requires 120s.



COMFORT

Smarter sensor - Hi-Motion

What's more comfortable than having a unit that follows you to wherever corner of the room? Hisense VRF offers more than just artificial intelligent integrated AC unit. Hi-Motion, unbeatable style with elegant white circular design. Dynamic and practical with detection capability upto 7m distance and area of 34m². Boundaryless installation including wall mounted or ceiling attached to meet any space restrictions and interior designs.

Main Functions

High Precision

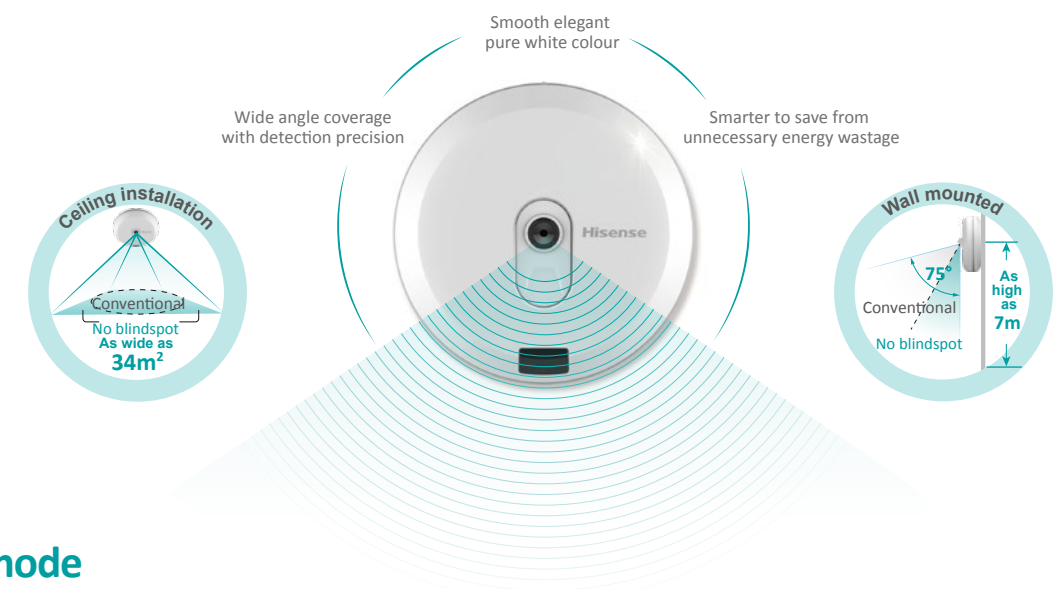
Adjust AC temperature and air flow speed precisely according to the number of users

Wide Range

Sense as much as 34m² with almost no blind area

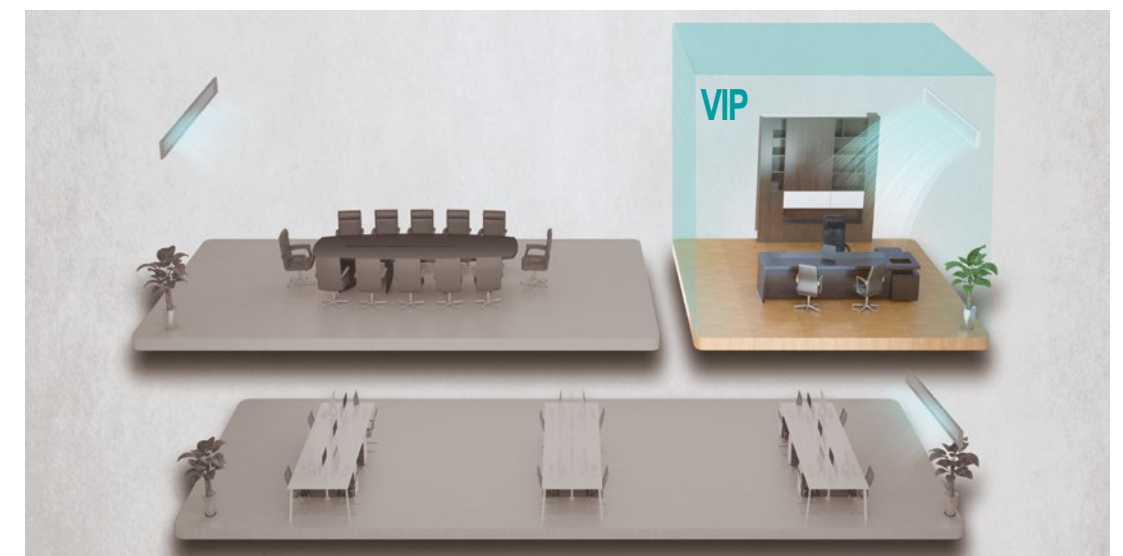
High Energy Conservation

Turn off AC automatically when nobody is in the room



VIP mode

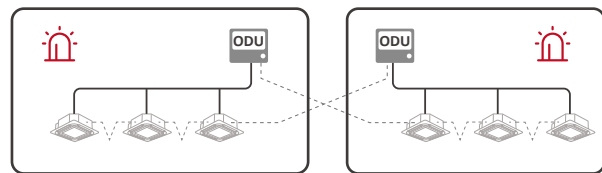
When there's a very important person in the house and air-conditioning priorities are needed to be given to them. Hisense VRF offers VIP modes to give priorities to the specific rooms, keeping them comfortable and satisfied as fast as possible. Such function is exclusively practical for hotel applications, where AC units in the presidential suites are often set to VIP mode. Keeping users comfortable is our top priority.



FLEXIBILITY

Mistake connection

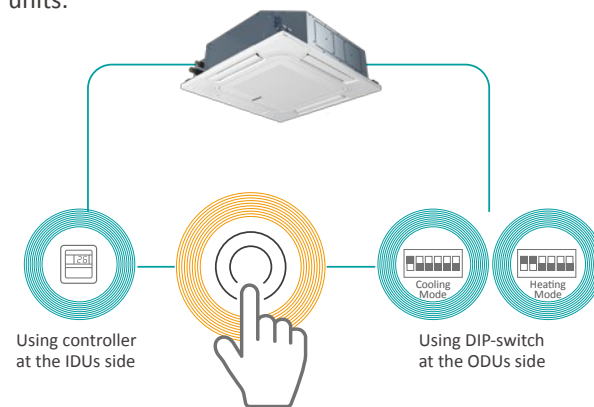
Communication line connections between ODUs and IDUs might be confusing when comes to long cables from the outdoors to the indoors and vice versa. It is often incorrectly connected and caused various errors affecting the end user's comfort levels. Despite of Hisense VRF's simple wiring connection ports,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



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

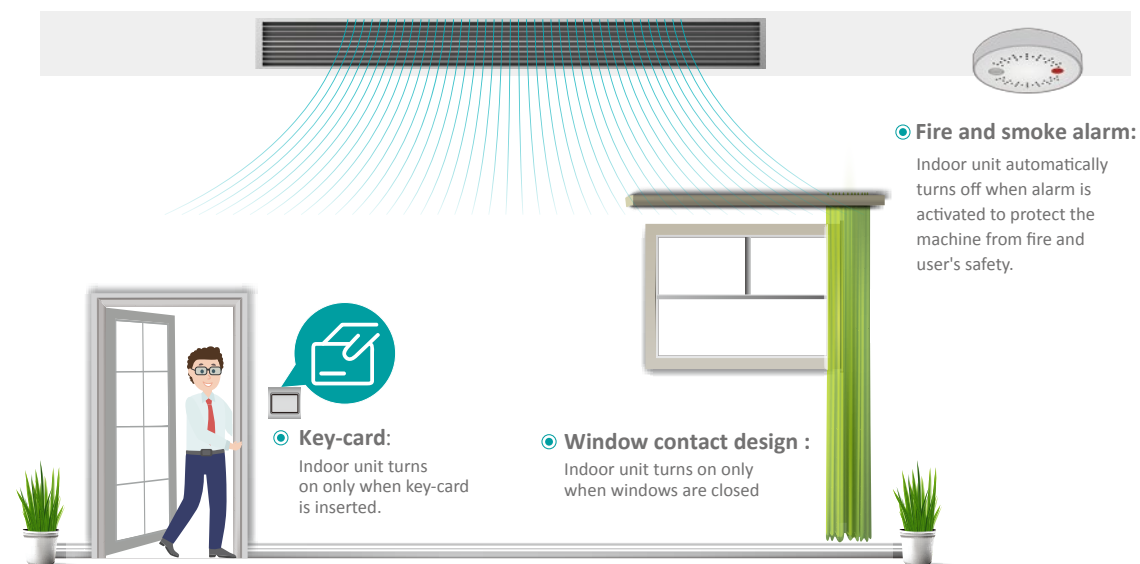
One-touch test run

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



Indoor unit dry contact interface

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

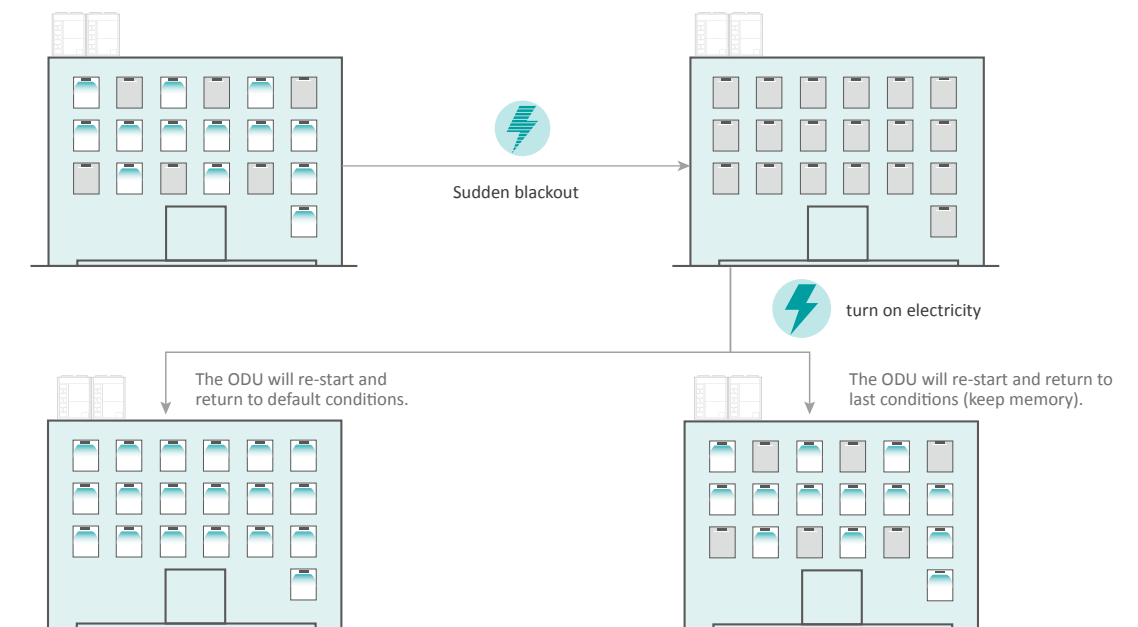


Note: this function can be achieved by the wired controller: HXXW-VA01, HXXM-VB01, HXXE-J01H

FLEXIBILITY

Automatic restart

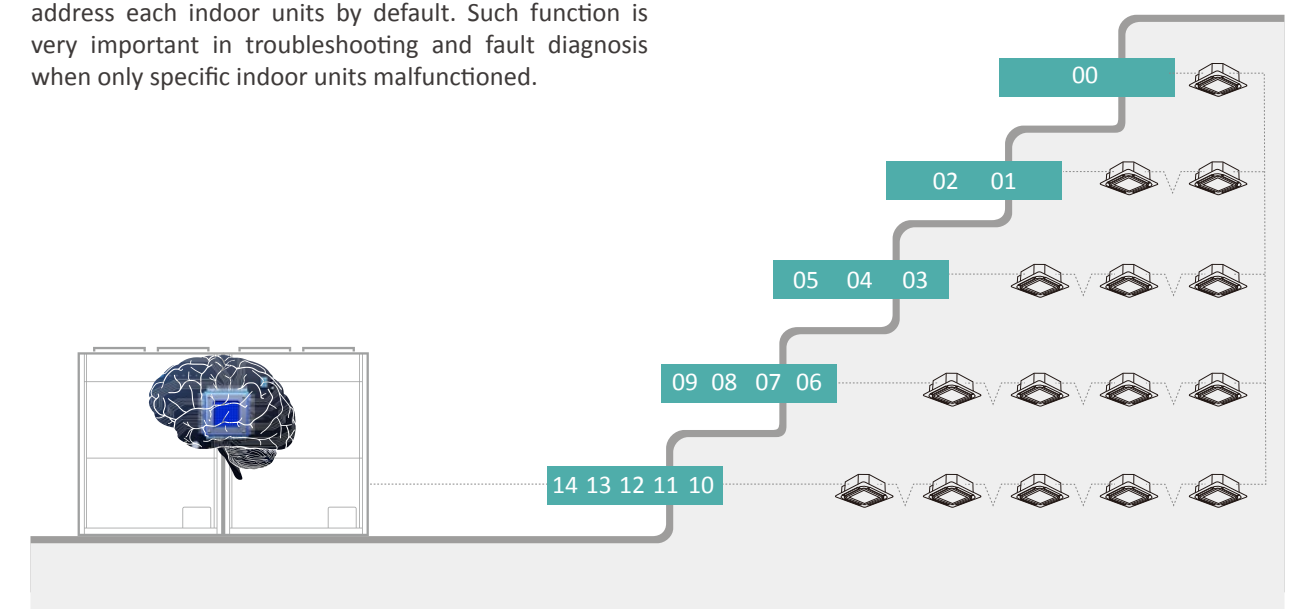
Hisense VRF is capable to restart automatically whenever there is an involuntary power supply shortage. Customers are free to choose from restoring to it to the state before power failure state or restarting the system completely. Such function comes in handy in equipment rooms whereby are constantly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



Automatic addressing

Imagine a large system with lots of indoor units, it could be tens or even hundreds as the number of system increases. The necessity to address each units could be so troublesome hence why not letting the software to auto address each indoor units by default. Such function is very important in troubleshooting and fault diagnosis when only specific indoor units malfunctioned.

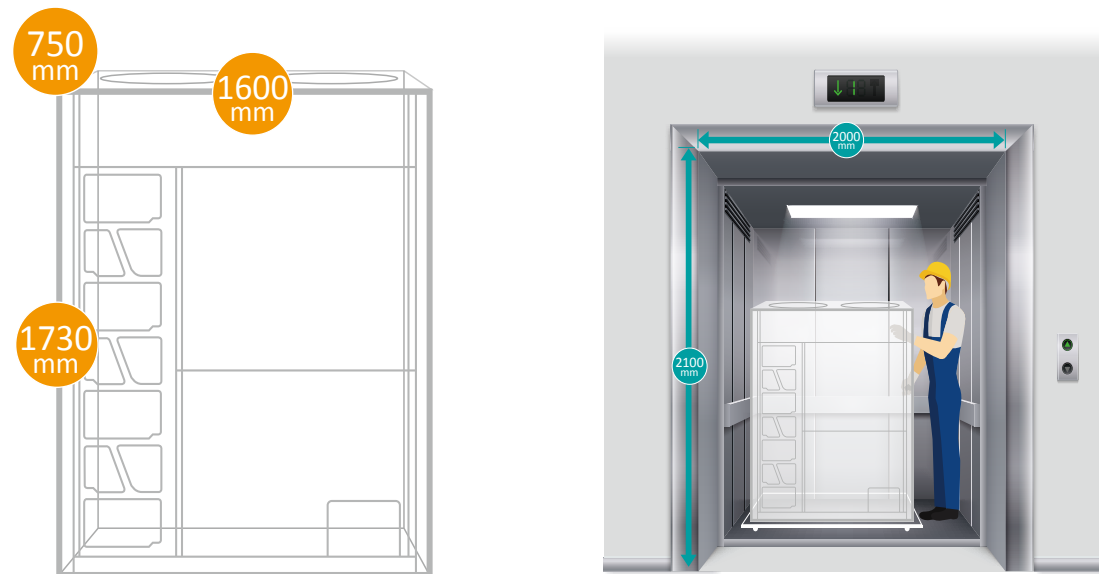
It is as easy as plug and play, connect the indoor units to the outdoor units and indoor unit addresses are completely set automatically.



FLEXIBILITY

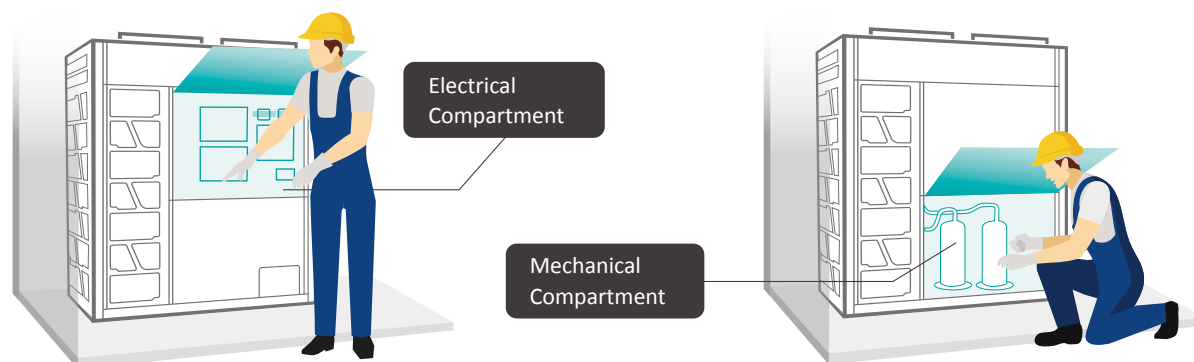
Compact and light-weight

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



Convenient maintenance

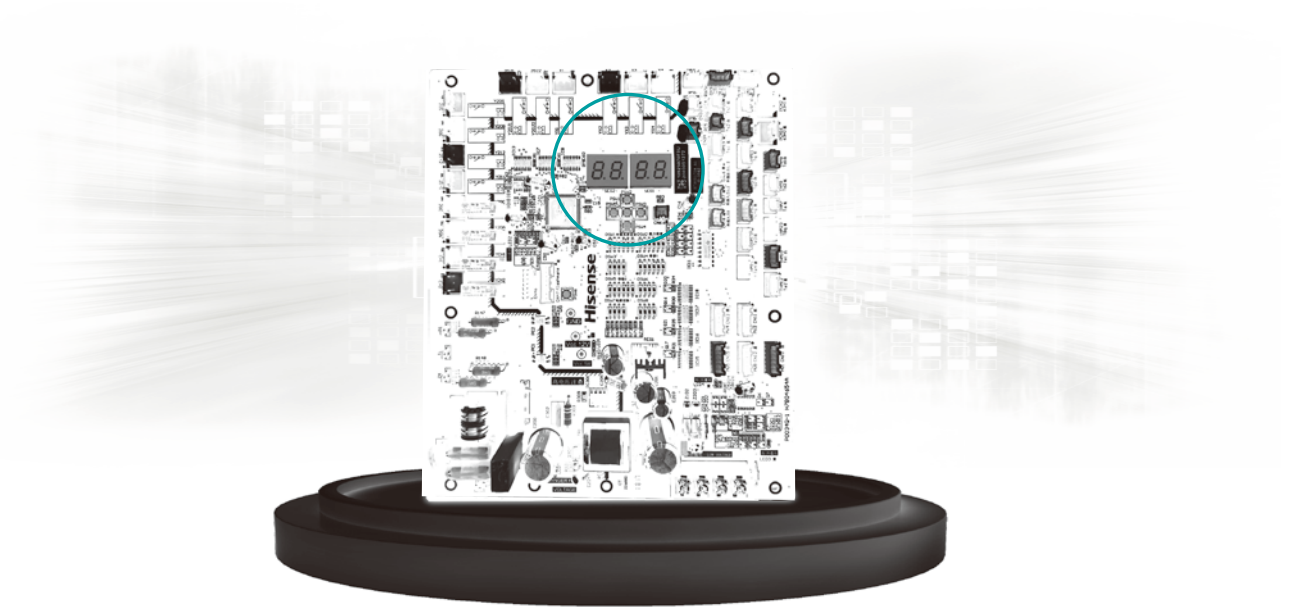
Hi-FLEXi S Series divides the electrical and mechanical compartment. Also be same with two panels. Engineers are free to take the panels apart to check and maintain every details separately. All designs provide the convenience for installation and maintenance.



FLEXIBILITY

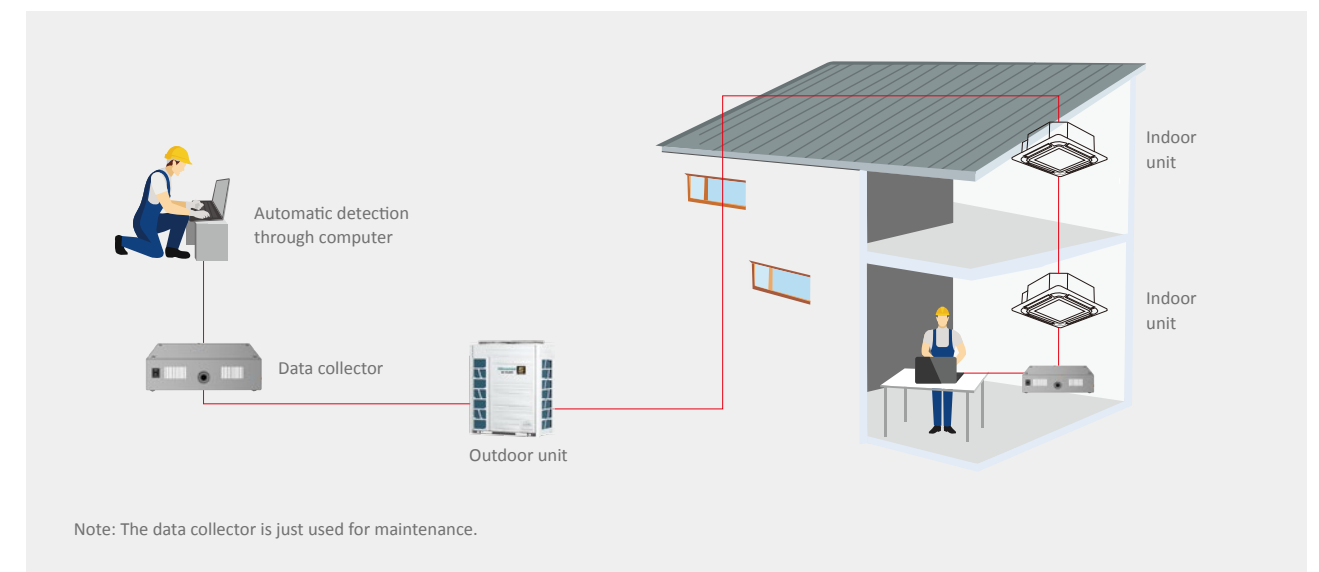
7-segment LED on the outdoor

The 7-segment LED on the outdoor unit makes it easy to monitor and check the details about the operating status such as refrigerant temperature, pressure, compressor frequency, alarm code, etc., which makes both operation management and maintenance more convenient.



Accurate intelligent system diagnosis

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



OUTDOOR UNIT

Hi-FLEXi **S** Series Heat Recovery

Hi-FLEXi **S** Series Heat Pump

Hi-FLEXi **G+** Series Heat Pump

Hi-FLEXi **W** Series Water Source Heat Pump

Hi-SMART **H** Series Heat Pump

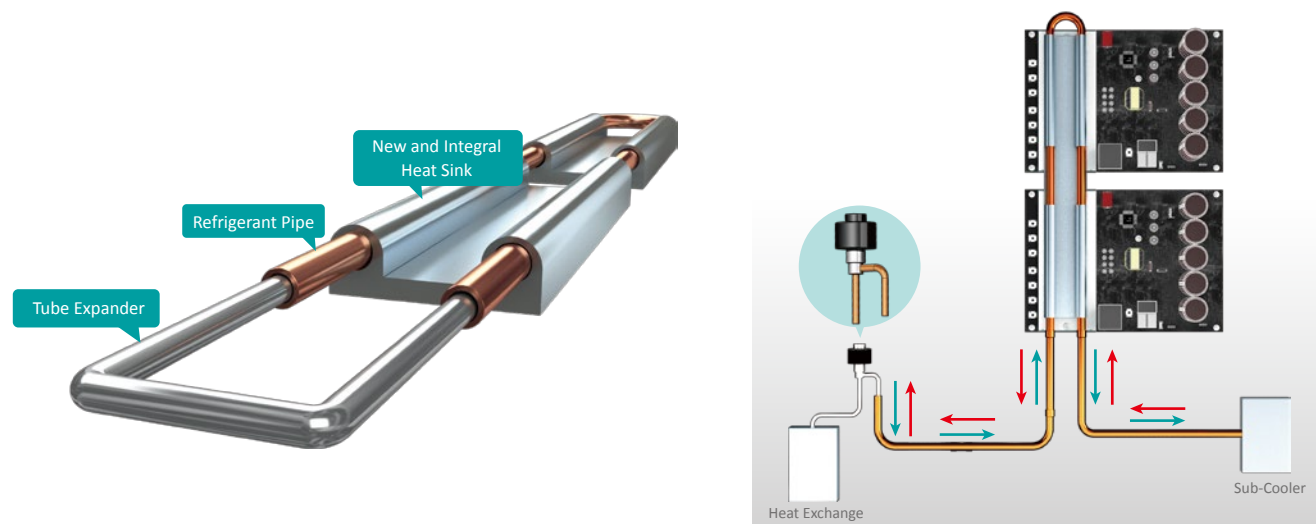


Hi-FLEXi S Series Heat Recovery



360° fitted refrigerant cooling technology

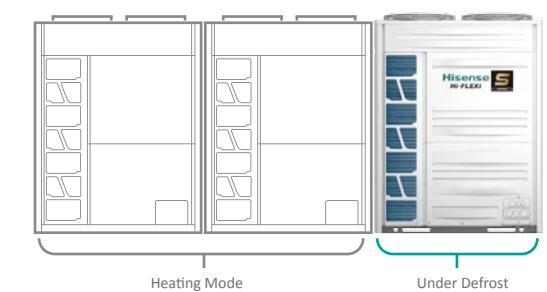
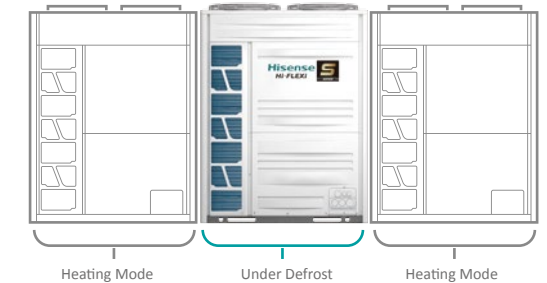
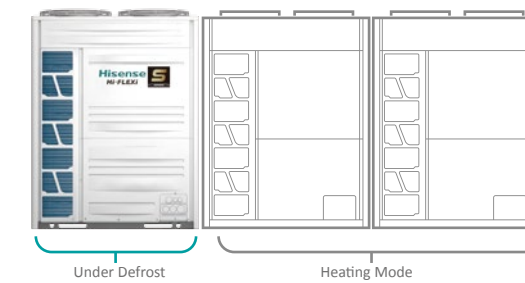
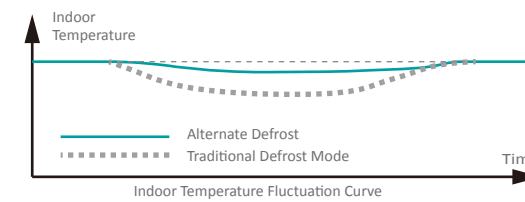
With the 360° refrigerant cooling technology, Hi-FLEXi S Series Heat Recovery will remove the heat from the main PCB, inverter module and outdoor unit's electrical box stably and efficiently. New and integral heat sink can help to improve the electrical reliability of the unit when it is running under high ambient temperature. This ensures stability and safety of the outdoor unit running and also prevents poor heat dissipation caused by the fan cycle rotation or stop mode.



Hi-FLEXi S Series Heat Recovery

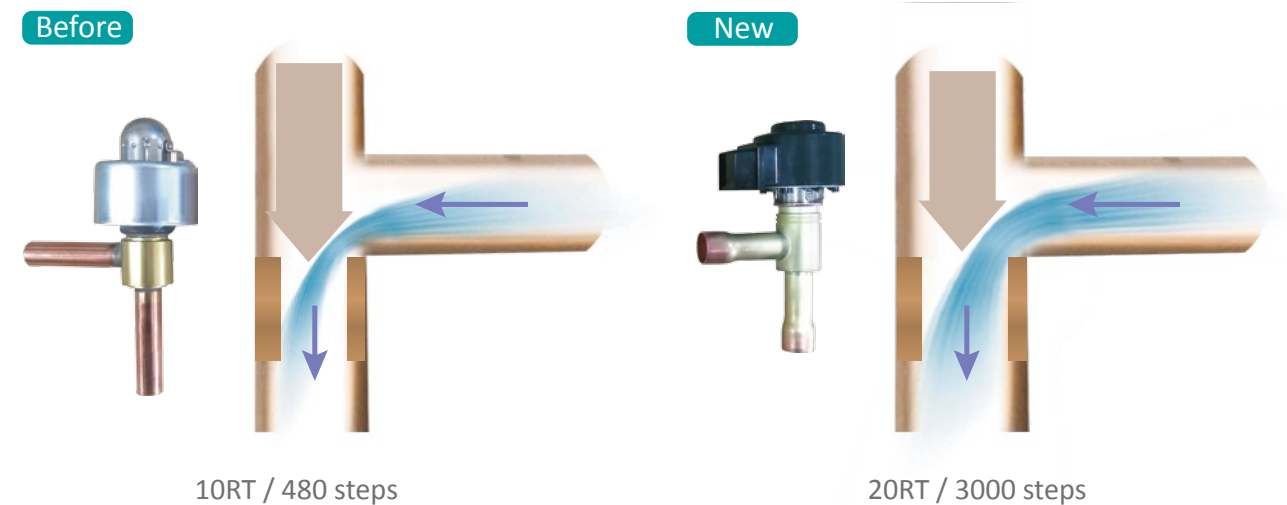
Consecutive heating

Hi-FLEXi S Series Heat Recovery can achieve only one module defrosted at a time. The indoor units temperature have less fluctuation. So it can ensure continuous comfort during the whole heating.



Dual 20RT EEV

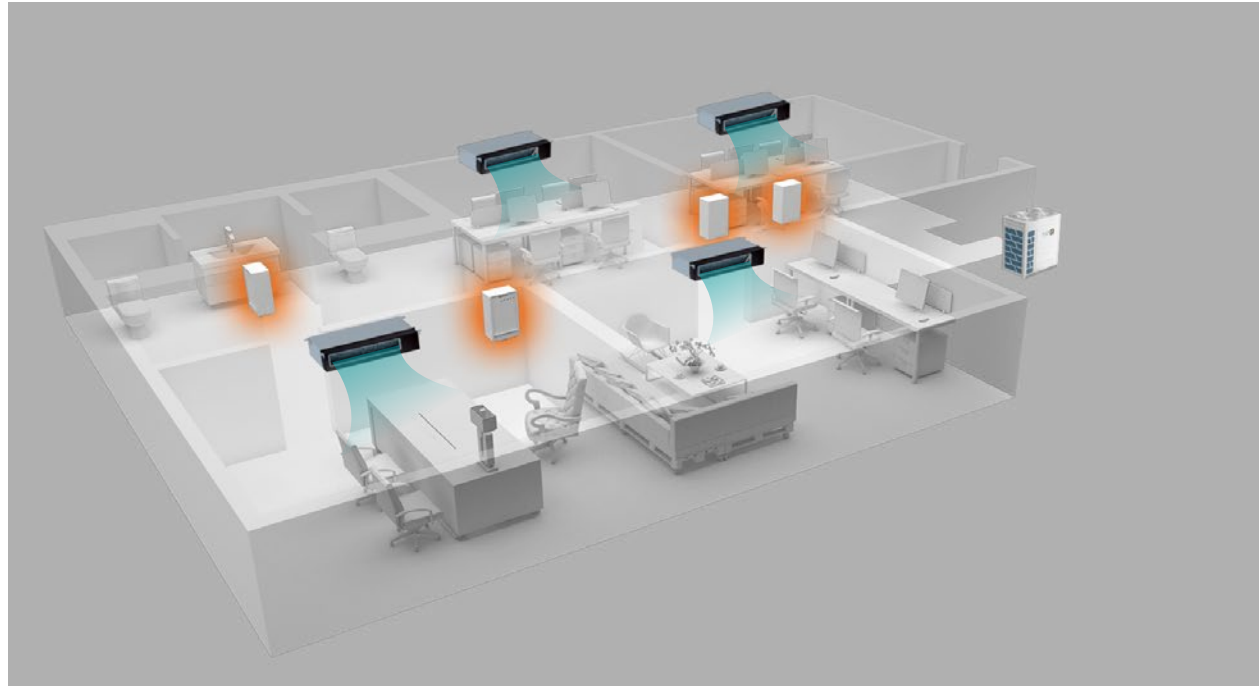
The 20RT EEV with 3000 steps extends the controlling range. Upgrading 10RT to 20RT and changing 480 steps to 3000 steps, its precision is improved. Also the new design can reduce pressure loss of heat exchange.



Hi-FLEXi S Series Heat Recovery

Max. 200% — the match ratio of ODU and IDUs

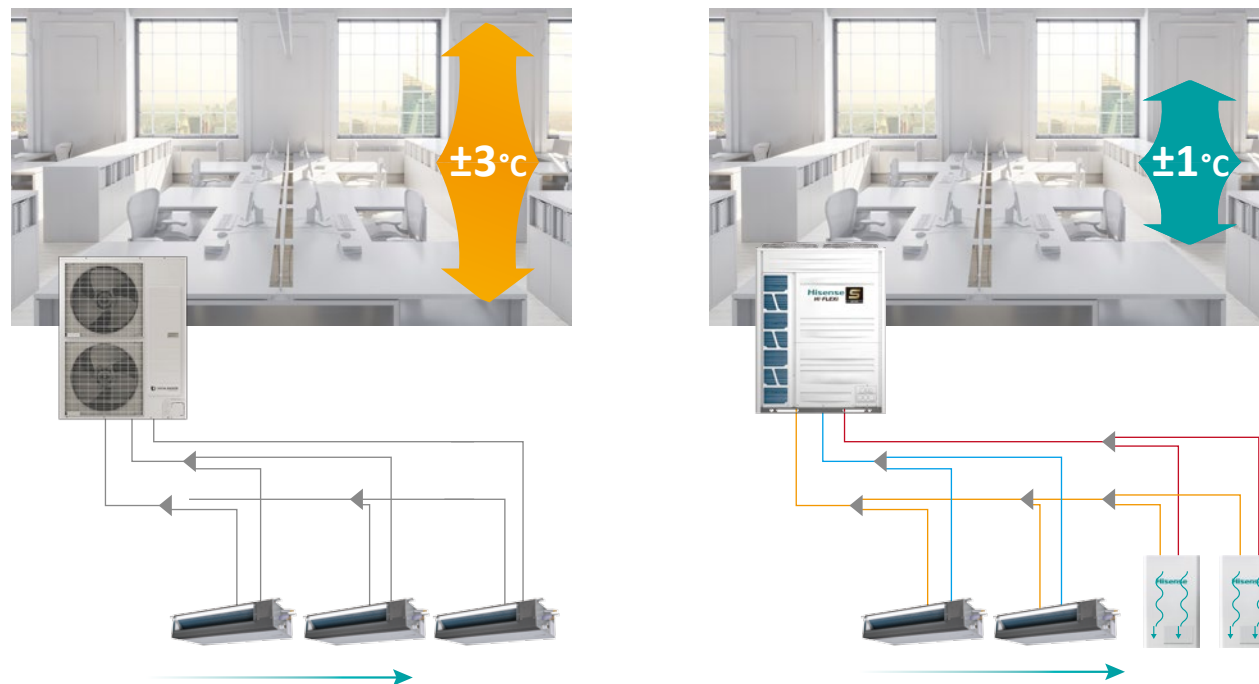
Hi-FLEXi S Series Heat Recovery can realize that the match ratio of ODU and IDUs is Max. 200%*



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

Hydro box defrost

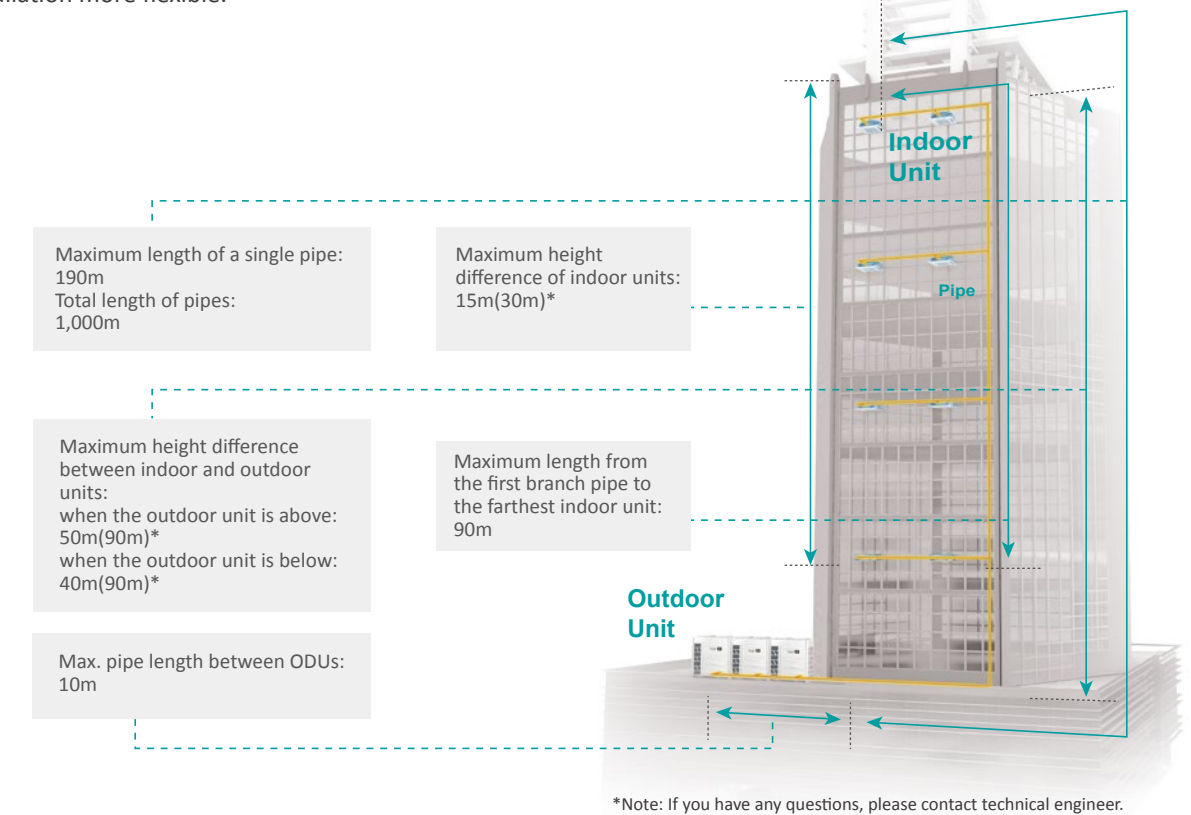
Hi-FLEXi S Series Heat Recovery can choose hydro box defrost. There is no doubt that room temperature will be less fluctuation to keep comfort.



Hi-FLEXi S Series Heat Recovery

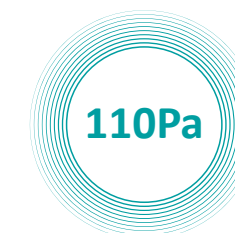
Extra long pipe design

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



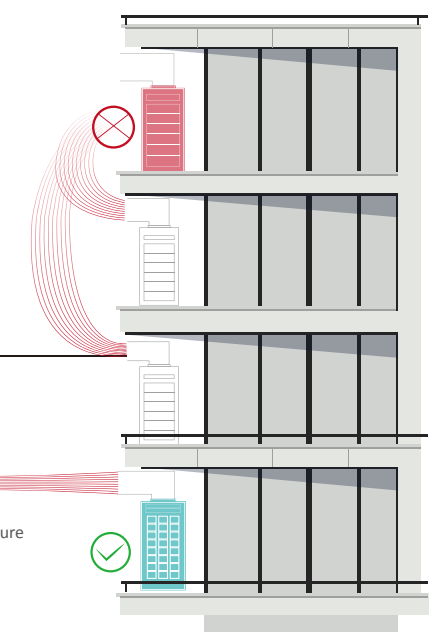
Fan static pressure adaptive technology

With static pressure adaptive technology, the fan of the outdoor unit can be adjusted in free static pressure based on system requirements to meet a variety of needs in different environments. The maximum external static pressure of the outdoor unit can be up to 110Pa*, which provides better conditions for the layered installation and centralized installation. Higher static pressure and further distance of air supply of the outdoor unit ensure the smooth flow of air and solve condensing problems of the outdoor unit effectively.



Lower static pressure

Higher outdoor unit fan static pressure ensures further discharge of air



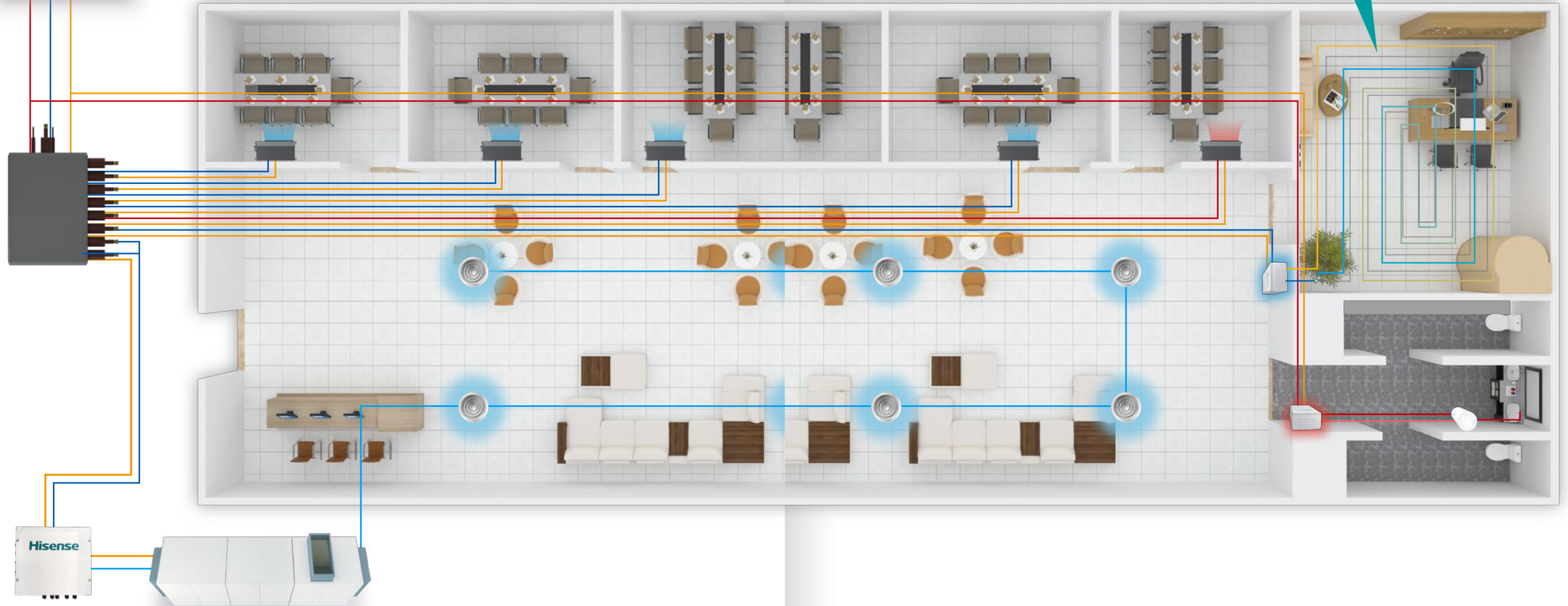
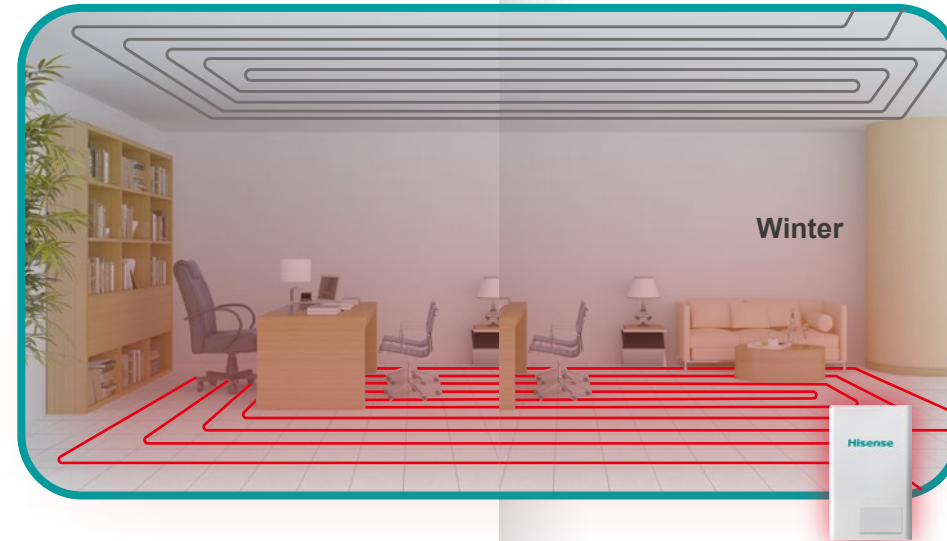
*Note: For detailed information, please contact Hisense's technical staff.

Hi-FLEXi S Series Heat Recovery

Hi-FLEXi S Series Heat Recovery

APPLICATION CASE

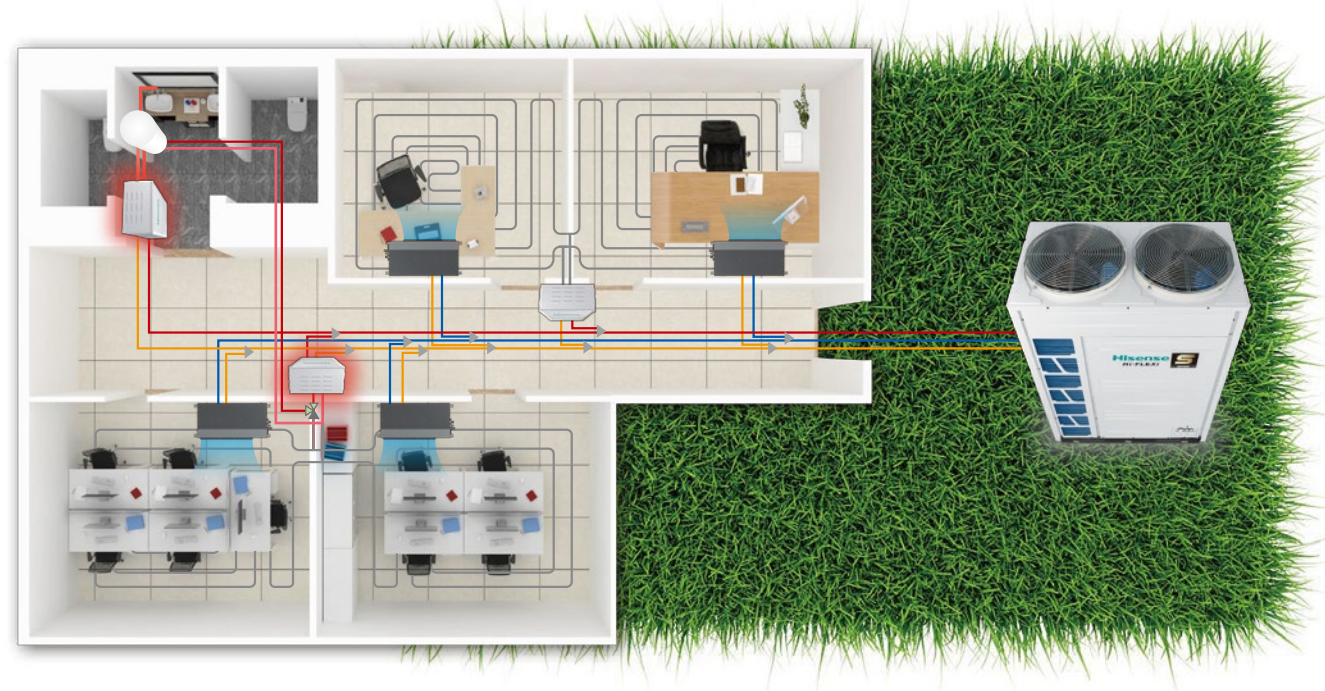
Simultaneous Cooling and Heating



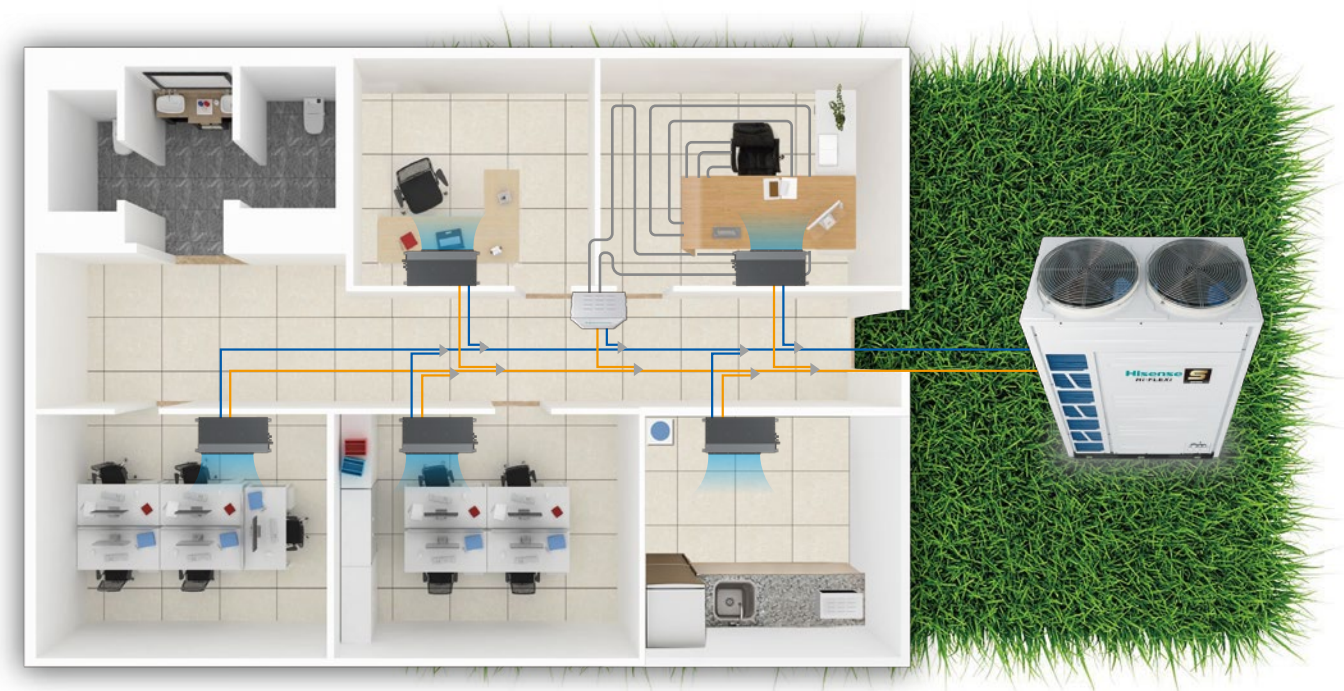
Hi-FLEXi S Series Heat Recovery

Hi-FLEXi S Series Heat Recovery

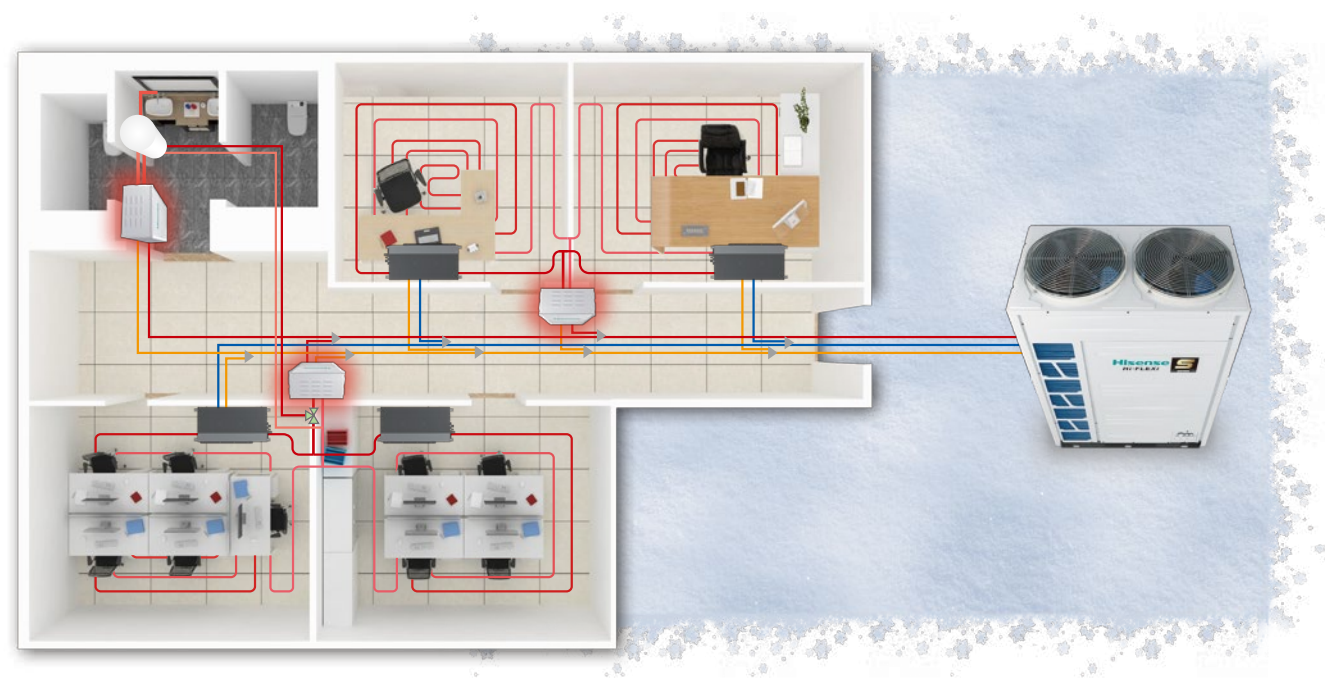
Heat Recovery Without Switch Box (Summer)



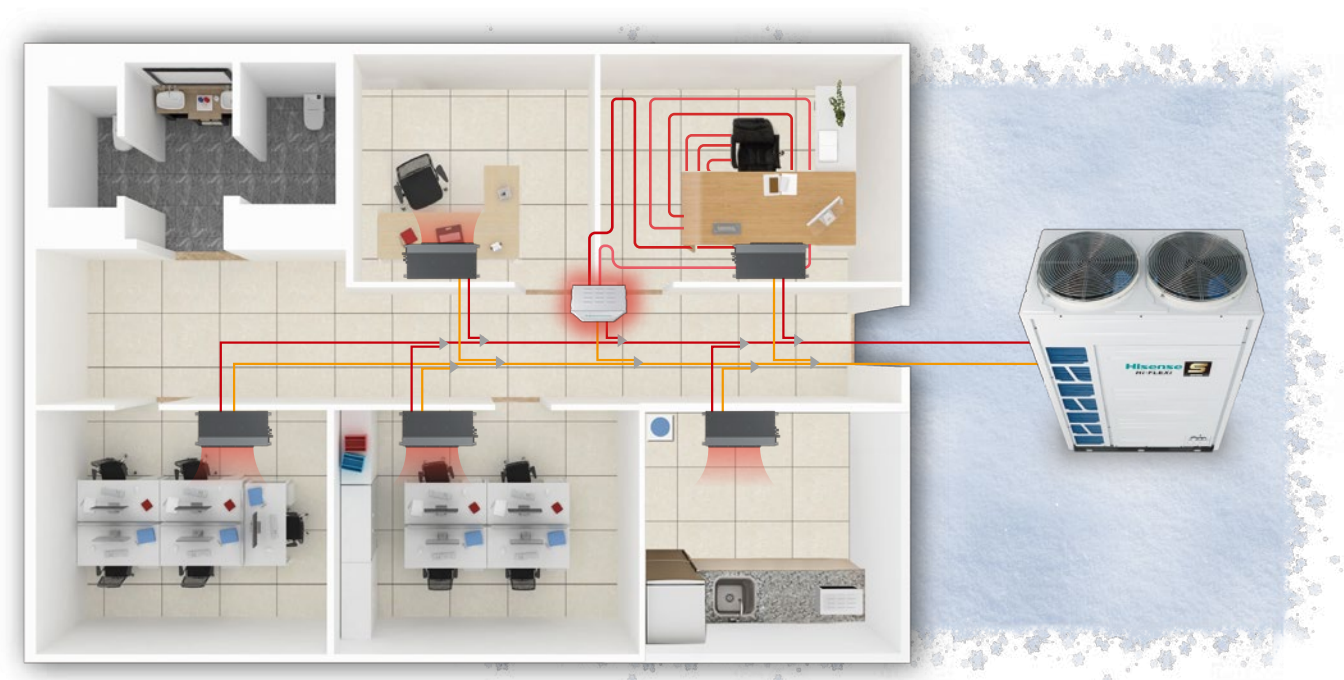
Heat Pump Mode (Summer)



Heat Recovery Without Switch Box (Winter)



Heat Pump Mode (Winter)



Hi-FLEXi S Series Heat Recovery

ENERGY SAVING BACKGROUND

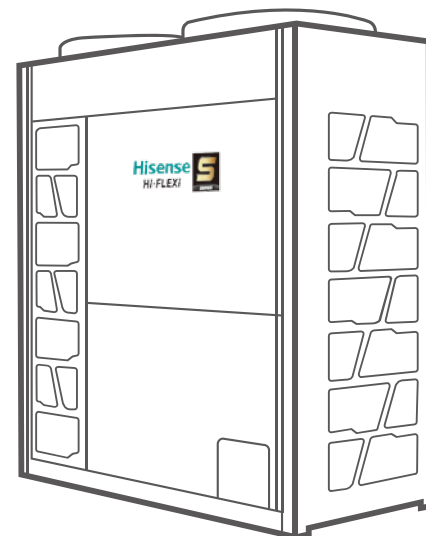
Energy conservation is unquestionably of great importance to all of us, since we rely on energy for everything we do every single day. Today, energy conservation has become a topic that can not be ignored today by putting more effort for greener future. So everyone should have a responsibility to reuse the energy as much as possible.



WHY CHOOSE HEAT RECOVERY

In buildings, lots of energy runs off everyday. With the rapid development of economy, it has been becoming more and more important to consider how to strengthen VRF technology research and reduce the energy consumption. Based on these reasons, Hi-FLEXi S Series Heat Recovery comes into being.

The S Heat Recovery system makes full use of waste heat from operational air conditioner that recovering the heat energy minimizing consuming electricity or external energies to achieve the purpose of energy saving. In addition, there is no time or space limit to supply free hot water. Recovering heat from VRF for supplying hot water achieves remarkable economy and is able to save energy as well as reducing thermal pollution to environment.



Hi-FLEXi S Series Heat Recovery



HP		7HP	10HP	12HP	
Model	Model	AVWT-72FFFH	AVWT-96FFFH	AVWT-120FFFH	
	Modules	-	-	-	
Power Supply		AC 3Φ 208/230V/60Hz			
Cooling ^{1/2}	Capacity	kW	20.2	27.0	33.4
		kBtu/h	69	92	114
EER(Ducted/Non-ducted)		(Btu/h)/W	12.15/14.80	11.80/14.05	11.80/13.90
Heating ^{1/2}	Capacity	kW	22.0	29.3	36.9
		kBtu/h	75	100	126
COP(Ducted/Non-ducted)		kW/kW	3.51/4.15	3.68/4.10	3.53/4.30
MCA		A	34.3	41.2	49.3
MOP		A	45	50	60
Ventilation	Air Flow Rate	m ³ /min	183	183	200
	Fan Quantity	-	1	1	2
Sound ³	Sound Power Level	dB(A)	59	60	62
		Type	-	Enhanced Vapor Injection Scroll Compressor	
Compressor	Compressor Quantity	PC	1	1	1
	Type	-	R410A		
Refrigerant	Pre-charged Quantity	kg	6.0	6.0	8.8
		Net Weight	kg	242	243
Weight	Gross Weight	kg	270	271	320
		External (H*W*D)	mm	1730x950x750	
Dimensions	Packing(H*W*D)	mm	1950x1015x790		1950x1275x790
	Cabinet Color ⁴	-	Ivory White		
Heat Pump Operation System	Gas	mm	Φ19.05	Φ22.20	Φ25.40
		in.	Φ3/4	Φ7/8	Φ1
	Liquid	mm	Φ9.53	Φ9.53	Φ12.70
		in.	Φ3/8	Φ3/8	Φ1/2
Heat Recovery Operation System	Low Pressure Gas Line	mm	Φ19.05	Φ22.20	Φ25.40
		in.	Φ3/4	Φ7/8	Φ1
	High/Low Pressure Gas Line	mm	Φ15.88	Φ19.05	Φ22.20
		in.	Φ5/8	Φ3/4	Φ7/8
	Liquid Line	mm	Φ9.53	Φ9.53	Φ12.70
		in.	Φ3/8	Φ3/8	Φ1/2
Connectable Indoor Units	Quantity	PC	13	16	19
	Operation Range	Cooling	°C DB	-10~52	
Heating		°C WB	-25~16.5		

Notes:

- The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units.
Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7°C DB 19.4°C WB, Outdoor Air Inlet Temperature: 35°C DB, Piping Length: 7.6m, Piping Lift: 0m.
Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB.
Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: -8.3°C DB -9.4°C WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
Measurement point: 1.0m from the service cover surface and 1.5m from floor level.
- The final appearance of outdoor units is subject to the actual products.

Hi-FLEXi S Series Heat Recovery



HP			14HP	17HP	19HP
Model	Model		AVWT-144FFFH	AVWT-168FFFH	AVWT-192FFFH
	Modules		-	-	-
Power Supply			AC 3Φ 208/230V/60Hz		
Cooling ^{1/2}	Capacity	kW	40.4	46.9	53.9
		kBtu/h	138	160	184
	EER(Ducted/Non-ducted)	(Btu/h)/W	10.85/12.10	11.00/11.85	11.40/11.85
Heating ^{1/2}	Capacity	kW	44.0	49.8	58.6
		kBtu/h	150	170	200
	COP(Ducted/Non-ducted)	kW/kW	3.27/3.61	3.21/3.49	3.28/3.51
MCA	A	60.1	62.3	78.1	
MOP	A	80	80	100	
Ventilation	Air Flow Rate	m ³ /min	267	267	350
	Fan Quantity	-	2	2	2
Sound ³	Sound Power Level	dB(A)	62	62	63
Compressor	Type	-	Enhanced Vapor Injection Scroll Compressor		
	Compressor Quantity	PC	2	2	2
Refrigerant	Type	-	R410A		
	Pre-charged Quantity	kg	9.8	9.8	11.5
Weight	Net Weight	kg	361	362	389
	Gross Weight	kg	392	393	422
Dimensions	External (H*W*D)	mm	1730x1350x750		1730x1600x750
	Packing(H*W*D)	mm	1950x1420x790		1950x1665x790
Cabinet Color ⁴	-	-	Ivory White		
Heat Pump Operation System	Gas	mm	Φ25.40	Φ28.60	Φ28.60
		in.	Φ1	Φ1-1/8	Φ1-1/8
	Liquid	mm	Φ12.70	Φ12.70	Φ15.88
		in.	Φ1/2	Φ1/2	Φ5/8
Heat Recovery Operation System	Low Pressure Gas Line	mm	Φ25.40	Φ28.60	Φ28.60
		in.	Φ1	Φ1-1/8	Φ1-1/8
	High/Low Pressure Gas Line	mm	Φ22.20	Φ22.20	Φ22.20
		in.	Φ7/8	Φ7/8	Φ7/8
	Liquid Line	mm	Φ12.70	Φ12.70	Φ15.88
		in.	Φ1/2	Φ1/2	Φ5/8
Connectable Indoor Units	Quantity	PC	23	29	33
Operation Range	Cooling	°C DB	-10~52		
	Heating	°C WB	-25~16.5		

Notes:

- The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units.
Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7°C DB 19.4°C WB, Outdoor Air Inlet Temperature: 35°C DB, Piping Length: 7.6m, Piping Lift: 0m.
Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB.
Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: -8.3°C DB -9.4°C WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahrirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
Measurement point: 1.0m from the service cover surface and 1.5m from floor level.
- The final appearance of outdoor units is subject to the actual products.

Hi-FLEXi S Series Heat Recovery



HP			22HP	24HP	26HP	29HP
Model	Model		AVWT-216FFFH	AVWAVWT-240FFFH	AVWT-264FFFH	AVWT-120AVWT-288FFFH
	Modules		AVWT-96FFFH AVWT-120FFFH	AVWT-120FFFH AVWT-120FFFH	AVWT-120FFFH AVWT-144FFFH	AVWT-144FFFH AVWT-144FFFH
Power Supply			AC 3Φ 208/230V/60Hz			
Cooling ^{1/2}	Capacity	kW	60.4	66.8	73.8	80.8
		kBtu/h	206	228	252	275.5
	EER(Ducted/Non-ducted)	(Btu/h)/W	11.81/13.96	11.81/13.89	11.26/12.86	10.85/12.11
Heating ^{1/2}	Capacity	kW	66.2	73.8	80.9	88.0
		kBtu/h	226	252	276	300.5
	COP(Ducted/Non-ducted)	kW/kW	3.60/4.21	3.53/4.30	3.38/3.90	3.27/3.61
MCA	A	41.2+49.3	49.3+49.3	49.3+60.1	60.1+60.1	
MOP	A	50+60	60+60	60+80	80+80	
Ventilation	Air Flow Rate	m ³ /min	183+200	200+200	200+267	267+267
	Fan Quantity	-	1+2	2+2	2+2	2+2
Sound ³	Sound Power Level	dB(A)	64	65	65	65
Compressor	Type	-	Enhanced Vapor Injection Scroll Compressor			
	Compressor Quantity	PC	1+1	1+1	1+2	2+2
Refrigerant	Type	-	R410A			
	Pre-charged Quantity	kg	6.0+8.8	8.8+8.8	8.8+9.8	9.8+9.8
Weight	Net Weight	kg	243+289	289+289	289+361	361+361
	Gross Weight	kg	271+320	320+320	320+392	392+392
Dimensions	External (H*W*D)	mm	1730x950+1210x750	1730x1210+1210x750	1730x1210+1350x750	1730x1350+1350x750
	Packing(H*W*D)	mm	1950x1015+1275x790	1950x1275+1275x790	1950x1275+1420x790	1950x1420+1420x790
Cabinet Color ⁴	-	-	Ivory White			
Heat Pump Operation System	Gas	mm	Φ28.60	Φ31.75	Φ31.75	Φ31.75
		in.	Φ1-1/8	Φ1-1/4	Φ1-1/4	Φ1-1/4
	Liquid	mm	Φ15.88	Φ19.05	Φ19.05	Φ19.05
		in.	Φ5/8	Φ3/4	Φ3/4	Φ3/4
Heat Recovery Operation System	Low Pressure Gas Line	mm	Φ28.60	Φ31.75	Φ31.75	Φ31.75
		in.	Φ1-1/8	Φ1-1/4	Φ1-1/4	Φ1-1/4
	High/Low Pressure Gas Line	mm	Φ25.40	Φ25.40	Φ28.60	Φ28.60
		in.	Φ1	Φ1	Φ1-1/8	Φ1-1/8
	Liquid Line	mm	Φ15.88	Φ19.05	Φ19.05	Φ19.05
		in.	Φ5/8	Φ3/4	Φ3/4	Φ3/4
Connectable Indoor Units	Quantity	PC	36	43	47	50
Operation Range	Cooling	°C DB	-10~52			
	Heating	°C WB	-25~16.5			

Notes:

- The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units.
Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7°C DB 19.4°C WB, Outdoor Air Inlet Temperature: 35°C DB, Piping Length: 7.6m, Piping Lift: 0m.
Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB.
Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: -8.3°C DB -9.4°C WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahrirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
Measurement point: 1.0m from the service cover surface and 1.5m from floor level.
- The final appearance of outdoor units is subject to the actual products.

Hi-FLEXi S Series Heat Recovery



HP		31HP	34HP	36HP	39HP	
Model	Model	AVWT-312FFFH	AVWT-336FFFH	AVWT-360FFFH	AVWT-384FFFH	
	Modules	AVWT-144FFFH	AVWT-168FFFH	AVWT-168FFFH	AVWT-192FFFH	
		AVWT-168FFFH	AVWT-168FFFH	AVWT-192FFFH	AVWT-192FFFH	
Power Supply		AC 3Φ 208/230V/60Hz				
Cooling ^{1/2}	Capacity	kW	87.3	93.8	100.8	107.8
		kBtu/h	298	320	344	368
	EER(Ducted/Non-ducted)	(Btu/h)/W	10.92/11.98	10.99/11.84	11.19/11.84	11.40/11.84
Heating ^{1/2}	Capacity	kW	93.8	99.6	108.4	117.2
		kBtu/h	320	340	370	400
	COP(Ducted/Non-ducted)	kW/kW	3.24/3.54	3.21/3.49	3.25/3.50	3.28/3.51
MCA	A	60.1+62.3	62.3+62.3	62.3+78.1	78.1+78.1	
	MOP	A	80+80	80+80	80+100	100+100
Ventilation	Air Flow Rate	m ³ /min	267+267	267+267	267+350	350+350
	Fan Quantity	-	2+2	2+2	2+2	2+2
Sound ⁴	Sound Power Level	dB(A)	65	65	66	66
		Type	Enhanced Vapor Injection Scroll Compressor			
Compressor	Compressor Quantity	PC	2+2	2+2	2+2	2+2
	Type	R410A				
Refrigerant	Pre-charged Quantity	kg	9.8+9.8	9.8+9.8	9.8+11.5	11.5+11.5
	Net Weight	kg	361+362	362+362	362+389	389+389
Weight	Gross Weight	kg	392+393	393+393	393+422	422+422
	External (H*W*D)	mm	1730x1350+1350x750		1730x1350+1600x750	1730x1600+1600x750
Dimensions	Packing(H*W*D)	mm	1950x1420+1420x790		1950x1420+1665x790	1950x1665+1665x790
Cabinet Color ⁴	Ivory White					
Heat Pump Operation System	Gas	mm	Φ31.75	Φ38.10	Φ38.10	Φ38.10
		in.	Φ1-1/4	Φ1-1/2	Φ1-1/2	Φ1-1/2
	Liquid	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05
		in.	Φ3/4	Φ3/4	Φ3/4	Φ3/4
Heat Recovery Operation System	Low Pressure Gas Line	mm	Φ31.75	Φ38.10	Φ38.10	Φ38.10
		in.	Φ1-1/4	Φ1-1/2	Φ1-1/2	Φ1-1/2
	High/Low Pressure Gas Line	mm	Φ28.60	Φ28.60	Φ31.75	Φ31.75
		in.	Φ1-1/8	Φ1-1/8	Φ1-1/4	Φ1-1/4
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05
		in.	Φ3/4	Φ3/4	Φ3/4	Φ3/4
Connectable Indoor Units	Quantity	PC	53	59	64	64
	Operation Range	Cooling	°C DB	-10~52		
Heating		°C WB	-25~16.5			

Notes:

- The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units.
Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7°C DB 19.4°C WB, Outdoor Air Inlet Temperature: 35°C DB, Piping Length: 7.6m, Piping Lift: 0m.
Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB.
Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: -8.3°C DB -9.4°C WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
Measurement point: 1.0m from the service cover surface and 1.5m from floor level.
- The final appearance of outdoor units is subject to the actual products.

Hi-FLEXi S Series Heat Recovery



HP		41HP	43HP	46HP	
Model	Model	AVWT-408FFFH	AVWT-432FFFH	AVWT-456FFFH	
	Modules	AVWT-120FFFH	AVWT-144FFFH	AVWT-144FFFH	
		AVWT-144FFFH	AVWT-144FFFH	AVWT-168FFFH	
Power Supply		AC 3Φ 208/230V/60Hz			
Cooling ^{1/2}	Capacity	kW	114.2	121.2	127.7
		kBtu/h	389.5	413.5	435.5
	EER(Ducted/Non-ducted)	(Btu/h)/W	11.12/12.59	10.85/12.11	10.88/12.01
Heating ^{1/2}	Capacity	kW	124.9	132.0	137.8
		kBtu/h	426	450.5	470
	COP(Ducted/Non-ducted)	kW/kW	3.34/3.79	3.27/3.61	3.25/3.57
MCA	A	49.3+60.1+60.1	60.1+60.1+60.1	60.1+60.1+62.3	
	MOP	A	60+80+80	80+80+80	80+80+80
Ventilation	Air Flow Rate	m ³ /min	200+267+267	267+267+267	267+267+267
	Fan Quantity	-	2+2+2	2+2+2	2+2+2
Sound ⁴	Sound Power Level	dB(A)	67	67	67
		Type	Enhanced Vapor Injection Scroll Compressor		
Compressor	Compressor Quantity	PC	1+2+2	2+2+2	2+2+2
	Type	R410A			
Refrigerant	Pre-charged Quantity	kg	8.8+9.8+9.8	9.8+9.8+9.8	9.8+9.8+9.8
	Net Weight	kg	289+361+361	361+361+361	361+361+362
Weight	Gross Weight	kg	320+392+392	392+392+392	392+392+393
	External (H*W*D)	mm	1730x1210+1350+1350x750		1730x1350+1350+1350x750
Dimensions	Packing(H*W*D)	mm	1950x1275+1420+1420x790		1950x1420+1420+1420x790
Cabinet Color ⁴	Ivory White				
Heat Pump Operation System	Gas	mm	Φ38.10	Φ38.10	Φ38.10
		in.	Φ1-1/2	Φ1-1/2	Φ1-1/2
	Liquid	mm	Φ19.05	Φ19.05	Φ19.05
		in.	Φ3/4	Φ3/4	Φ3/4
Heat Recovery Operation System	Low Pressure Gas Line	mm	Φ38.10	Φ38.10	Φ38.10
		in.	Φ1-1/2	Φ1-1/2	Φ1-1/2
	High/Low Pressure Gas Line	mm	Φ31.75	Φ31.75	Φ31.75
		in.	Φ1-1/4	Φ1-1/4	Φ1-1/4
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
		in.	Φ3/4	Φ3/4	Φ3/4
Connectable Indoor Units	Quantity	PC	64	64	64
	Operation Range	Cooling	°C DB	-10~52	
Heating		°C WB	-25~16.5		

Notes:

- The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units.
Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7°C DB 19.4°C WB, Outdoor Air Inlet Temperature: 35°C DB, Piping Length: 7.6m, Piping Lift: 0m.
Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB.
Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: -8.3°C DB -9.4°C WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
Measurement point: 1.0m from the service cover surface and 1.5m from floor level.
- The final appearance of outdoor units is subject to the actual products.

Hi-FLEXi S Series Heat Recovery

NEW SWITCH BOX

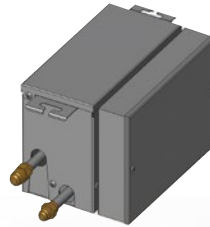
Introduction

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

Advantage

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

Original Products



New Switch Box



Model	Single Branch		Multiple Branch					
	HCHS-N06XB	HCHS-N10XB	HCHM-N04XB	HCHM-N08XB	HCHM-N12XB	HCHM-N16XB		
Power Supply	1Φ 208/230V/60Hz							
Number of Ports (for Indoor Unit)	1	1	4	8	12	16		
Outer Dimensions (H*W*D)	mm	301x191x214	301x191x214	303x352x260	543x352x260	783x352x260	1023x352x260	
Net Weight	kg	6.3	6.4	14.1	25.2	35.5	46.7	
Max. Number of Connected IDUs Per Port		8	8	8	8	6	6	
Max. Total Capacity of Connected IDUs Per Port	kW	16	28	16	16	16	16	
Maximum Total Capacity of All Connected IDUs	kW	16	28	44.8	85	85	85	
Operation Sound	dB(A)	33	33	31	31	34	34	
Refrigerant Piping	Gas Line (High/Low Pressure)	mm	15.88	15.88	22.2	22.2	25.4	28.6
	Gas Line (Low Pressure)	mm	19.05	19.05	25.4	28.6	28.6	31.75
	Liquid Line	mm	—	—	12.7	12.7	15.88	19.05
Refrigerant Piping (from IDUs)	Gas Line	mm	15.88	19.05	15.88	15.88	15.88	15.88
	Liquid Line	mm	—	—	9.53	9.53	9.53	9.53

HYDRO BOX

Specification for Hydro Box

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

Operation Range

Indoor Unit Cooling

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

Water Module Cooling

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

Water Module Heating (DHW)

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

Indoor Unit Heating

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

Water Module Heating (Floor Heating)

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

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



Hi-FLEXi S Series Heat Pump

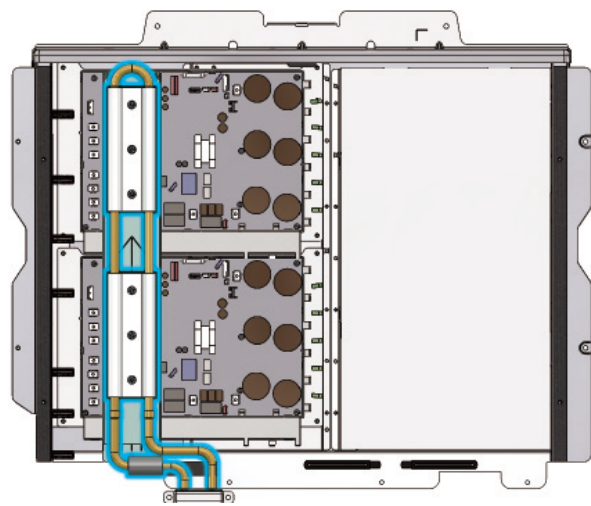


360° fitted refrigerant cooling technology

With the patented 360° refrigerant cooling technology, Hi-FLEXi S Series will remove the heat from the main PCB, inverter module and outdoor unit's electrical box stably and efficiently. It can help to improve the electrical reliability of the unit when it is running under high ambient. This ensures stability and safety of the outdoor unit running and also prevents poor heat dissipation caused by the fan cycle rotation or stop mode.

The refrigerant heat sink of aluminum alloy with high thermal conductivity and the internal mechanical tube can integrate closely to keep the heat transfer efficiency.

A tin heat conductor is added between the refrigerant pipe and the heat sink built-in the electrical component to increase the heat transfer efficiency. Made by imported lead-free solder film with high thermal conductivity, the tin heat conductor greatly improve the overall performance.



Hi-FLEXi S Series Heat Pump

Extral long pipe design

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

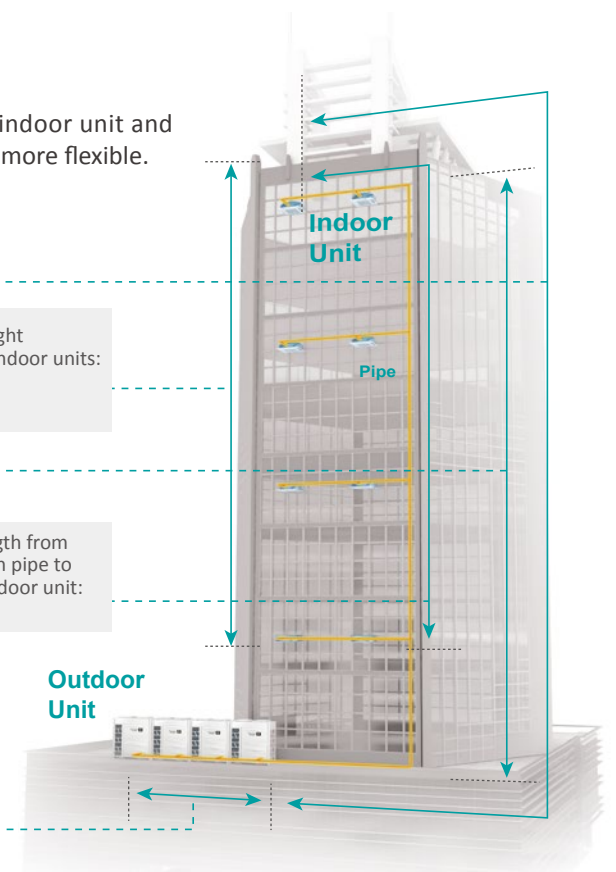
Maximum length of a single pipe: 190m
Total length of pipes: 1,000m

Maximum height difference of indoor units: 15m(30m)*

Maximum height difference between indoor and outdoor units:
when the outdoor unit is above: 50m(90m)*
when the outdoor unit is below: 40m(90m)*

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

Max. pipe length between ODUs: 10m



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

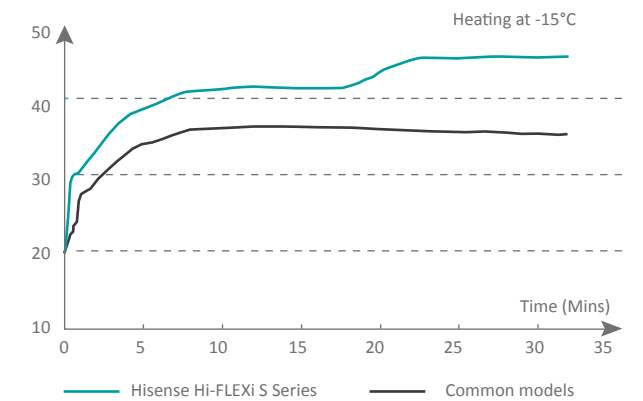
Rapid heating under low temperature

When the Hi-FLEXi S Series is running at a low outdoor ambient of -15°C , the outlet air temperature of the indoor unit can reach up to 40°C or higher* in a short time. The outdoor unit has a fast and powerful heating efficiency, so it can offer you a warm and comfortable environment in winter.

This test result is based on the 10HP outdoor unit and 2 indoor units

Test conditions:

- Outdoor suction temperature: -15°C(dry bulb),
 - Relative humidity: 75%,
 - Indoor unit suction temperature: 20°C(dry bulb), high air volume.
 - Length of indoor and outdoor pipes: 6 meters.
- Measurement sites:
laboratory of constant temperature.



Note: The actual heat time depends on the heat load, models and building structure.

Hi-FLEXi S Series Heat Pump



HP			8HP	10HP	12HP	14HP	16HP	18HP
Model	Model		AVWT-76HHFSE	AVWT-96HHFSE	AVWT-114HHFSE	AVWT-136HHFSE	AVWT-154HHFSE	AVWT-170HHFSE
	Modules		-	-	-	-	-	-
Power Supply			AC 3Φ 460V/60Hz					
Cooling	Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0
		kBtu/h	76.4	95.5	114.3	136.5	153.5	170.6
	Power Input	kW	4.85	6.75	8.07	10.26	12.10	14.04
	EER	kW/kW	4.62	4.15	4.15	3.90	3.72	3.56
Heating	Capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0
		kBtu/h	85.3	107.5	128.0	153.5	170.6	191.1
	Power Input	kW	5.15	6.77	9.17	10.82	12.14	14.74
	COP	kW/kW	4.85	4.65	4.09	4.16	4.12	3.80
Ventilation	Air Flow Rate	m ³ /min	183			200		
	Fan Quantity		1			2		
Sound	Sound Power Level	dB(A)	59	60	62	62	62	62
Compressor	Type	-	Enhanced Vapor Injection Compressor					
	Compressor Quantity	PC	1	1	1	1	1	2
Refrigerant	Type	-	R410A					
	Pre-charged Amount	kg	7.4	7.4	9.5	12.0	12.0	13.2
Weight	Net Weight	kg	231	232	252	304	305	354
	Gross Weight	kg	250	251	272	328	329	378
Dimensions	External (HxWxD)	mm	1730x950x750			1730x1210x750		
	Packing(HxWxD)	mm	1930x1015x790			1930x1275x790		
Cabinet Color	-		Ivory White					
Ref. Piping	Gas	mm	Φ19.05	Φ22.20	Φ25.40	Φ25.40	Φ28.60	Φ28.60
		in.	3/4	7/8	1	1	1-1/8	1-1/8
	Liquid	mm	Φ9.53	Φ9.53	Φ12.70	Φ12.70	Φ12.70	Φ15.88
		in.	3/8	3/8	1/2	1/2	1/2	5/8
Connectable Indoor Units	Quantity	PC	13	16	19	23	26	29
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)					
		m	When the Outdoor Unit is Below: 40m (90m*)					
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)					
	Max. Piping Length	m	1000					
Operation Range	Cooling	°C DB	-5~52					
	Heating	°C WB	-25~16.5					

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP			20HP	22HP	24HP	26HP	28HP
Model	Model		AVWT-190HHFSE	AVWT-212HHFSE	AVWT-232HHFSE	AVWT-250HHFSE	AVWT-272HHFSE
	Modules		-	-	-	-	-
Power Supply			AC 3Φ 460V/60Hz				
Cooling	Capacity	kW	56.0	61.5	68.0	72.5	80.0
		kBtu/h	191.1	209.8	232.1	246.5	272.0
	Power Input	kW	15.47	17.93	20.61	21.90	24.24
	EER	kW/kW	3.62	3.43	3.30	3.31	3.30
Heating	Capacity	kW	63.0	69.0	75.0	80.0	90.0
		kBtu/h	215.0	235.4	255.0	272.0	306.0
	Power Input	kW	16.45	18.80	21.37	22.22	25.71
	COP	kW/kW	3.83	3.67	3.51	3.60	3.50
Ventilation	Air Flow Rate	m ³ /min	267	296	296	350	350
	Fan Quantity		2				
Sound	Sound Power Level	dB(A)	63	64	66	67	67
Compressor	Type	-	Enhanced Vapor Injection Compressor				
	Compressor Quantity	PC	2				
Refrigerant	Type	-	R410A				
	Pre-charged Amount	kg	14.3	15.5	15.5	17.3	17.3
Weight	Net Weight	kg	368	376	377	421	422
	Gross Weight	kg	402	403	404	453	454
Dimensions	External (HxWxD)	mm	1730x1350x750			1730x1600x750	
	Packing(HxWxD)	mm	1930x1420x790			1930x1665x790	
Cabinet Color	-		Ivory White				
Ref. Piping	Gas	mm	Φ28.60	Φ28.60	Φ28.60	Φ31.75	Φ31.75
		in.	1-1/8	1-1/8	1-1/8	1-1/4	1-1/4
	Liquid	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ19.05
		in.	5/8	5/8	5/8	3/4	3/4
Connectable Indoor Units	Quantity	PC	33	36	40	43	47
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)				
		m	When the Outdoor Unit is Below: 40m (90m*)				
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)				
	Max. Piping Length	m	1000				
Operation Range	Cooling	°C DB	-5~52				
	Heating	°C WB	-25~16.5				

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		30HP	32HP	34HP	36HP	38HP	
Model	Model	AVWT-290HHFSE	AVWT-308HHFSE	AVWT-324HHFSE	AVWT-344HHFSE	AVWT-360HHFSE	
	Modules	AVWT-136HHFSE AVWT-154HHFSE	AVWT-154HHFSE AVWT-154HHFSE	AVWT-154HHFSE AVWT-170HHFSE	AVWT-154HHFSE AVWT-190HHFSE	AVWT-170HHFSE AVWT-190HHFSE	
Power Supply		AC 3Φ 460V/60Hz					
Cooling	Capacity	kW	85.0	90.0	95.0	101.0	106.0
		kBtu/h	290.0	307.0	324.1	344.6	361.7
	Power Input	kW	22.35	24.19	26.14	27.57	29.51
	EER	kW/kW	3.80	3.72	3.63	3.66	3.59
Heating	Capacity	kW	95.0	100.0	106.0	113.0	119.0
		kBtu/h	324.1	341.2	361.7	385.6	406.1
	Power Input	kW	22.95	24.27	26.90	28.61	31.15
	COP	kW/kW	4.14	4.12	3.94	3.95	3.82
Ventilation	Air Flow Rate	m ³ /min	400	400	400	467	467
	Fan Quantity		4				
Sound	Sound Power Level	dB(A)	67				
Compressor	Type	-	Enhanced Vapor Injection Compressor				
	Compressor Quantity	PC	2	2	3	3	4
Refrigerant	Type	-	R410A				
	Pre-charged Amount	kg	24.0	24.0	25.2	26.3	27.5
Weight	Net Weight	kg	609	610	659	673	722
	Gross Weight	kg	657	658	707	731	780
Dimensions	External (HxWxD)	mm	1730x(1210+1210)x750			1730x(1210+1350)x750	
	Packing(HxWxD)	mm	1930x(1275+1275)x790			1930x(1275+1420)x790	
Cabinet Color	-		Ivory White				
Ref. Piping	Gas	mm	Φ31.75	Φ31.75	Φ38.1	Φ38.1	Φ38.1
		in.	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2
	Liquid	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
		in.	3/4	3/4	3/4	3/4	3/4
Connectable Indoor Units	Quantity	PC	49	52	55	59	62
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)				
		m	When the Outdoor Unit is Below: 40m (90m*)				
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)				
	Max. Piping Length	m	1000				
Operation Range	Cooling	°C DB	-5~52				
	Heating	°C WB	-25~16.5				

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		40HP	42HP	44HP	46HP	48HP	
Model	Model	AVWT-380HHFSE	AVWT-402HHFSE	AVWT-422HHFSE	AVWT-444HHFSE	AVWT-464HHFSE	
	Modules	AVWT-190HHFSE AVWT-190HHFSE	AVWT-170HHFSE AVWT-232HHFSE	AVWT-190HHFSE AVWT-232HHFSE	AVWT-212HHFSE AVWT-232HHFSE	AVWT-232HHFSE AVWT-232HHFSE	
Power Supply		AC 3Φ 460V/60Hz					
Cooling	Capacity	kW	112.0	118.0	124.0	129.5	136.0
		kBtu/h	382.1	402.7	432.2	441.9	464.2
	Power Input	kW	30.94	34.65	36.08	38.54	41.21
	EER	kW/kW	3.62	3.41	3.44	3.36	3.30
Heating	Capacity	kW	126.0	131.0	138.0	144.0	150.0
		kBtu/h	430.0	446.1	470.0	490.4	510.0
	Power Input	kW	32.90	36.09	37.81	40.22	42.74
	COP	kW/kW	3.83	3.63	3.65	3.58	3.51
Ventilation	Air Flow Rate	m ³ /min	534	496	563	592	592
	Fan Quantity		4				
Sound	Sound Power Level	dB(A)	67	67	68	68	69
Compressor	Type	-	Enhanced Vapor Injection Compressor				
	Compressor Quantity	PC	4				
Refrigerant	Type	-	R410A				
	Pre-charged Amount	kg	28.6	31.9	32.4	34.9	31.0
Weight	Net Weight	kg	736	731	745	753	754
	Gross Weight	kg	804	782	806	807	808
Dimensions	External (HxWxD)	mm	1730x(1350+1350)x750	1730x(1210+1350)x750	1730x(1350+1350)x750		
	Packing(HxWxD)	mm	1930x(1420+1420)x790	1930x(1275+1420)x790	1930x(1420+1420)x790		
Cabinet Color	-		Ivory White				
Ref. Piping	Gas	mm	Φ38.1	Φ38.1	Φ38.1	Φ41.3	Φ41.3
		in.	1-1/2	1-1/2	1-1/2	1-5/8	1-5/8
	Liquid	mm	Φ19.05	Φ19.05	Φ19.05	Φ22.2	Φ22.2
		in.	3/4	3/4	3/4	7/8	7/8
Connectable Indoor Units	Quantity	PC	64	64	64	64	64
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)				
		m	When the Outdoor Unit is Below: 40m (90m*)				
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)				
	Max. Piping Length	m	1000				
Operation Range	Cooling	°C DB	-5~52				
	Heating	°C WB	-25~16.5				

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		50HP	52HP	54HP	56HP	
Model	Model	AVWT-482HHFSE	AVWT-504HHFSE	AVWT-522HHFSE	AVWT-544HHFSE	
	Modules	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-250HHFSE	AVWT-272HHFSE	
		AVWT-250HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	
Power Supply		AC 3Φ 460V/60Hz				
Cooling	Capacity	kW	140.0	148.0	152.5	160.0
		kBtu/h	478.6	504.1	518.5	544.0
	Power Input	kW	42.51	44.85	46.15	48.48
	EER	kW/kW	3.29	3.30	3.30	3.30
Heating	Capacity	kW	155.0	165.0	170.0	180.0
		kBtu/h	527.0	561.0	578.0	612.0
	Power Input	kW	43.54	47.14	47.89	51.43
	COP	kW/kW	3.56	3.50	3.55	3.50
Ventilation	Air Flow Rate	m ³ /min	646	646	700	700
	Fan Quantity		4			
Sound	Sound Power Level	dB(A)	70			
Compressor	Type	-	Enhanced Vapor Injection Compressor			
	Compressor Quantity	PC	4			
Refrigerant	Type	-	R410A			
	Pre-charged Amount	kg	32.8	32.8	34.6	34.6
Weight	Net Weight	kg	798	799	843	844
	Gross Weight	kg	857	858	907	908
Dimensions	External (HxWxD)	mm	1730x(1350+1600)x750			1730x(1600+1600)x750
	Packing(HxWxD)	mm	1930x(1420+1665)x790			1930x(1665+1665)x790
Cabinet Color	-	Ivory White				
Ref. Piping	Gas	mm	Φ41.3			
		in.	1-5/8			
	Liquid	mm	Φ22.2			
		in.	7/8			
Connectable Indoor Units	Quantity	PC	64			
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	1000			
Operation Range	Cooling	°C DB	-5~52			
	Heating	°C WB	-25~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		58HP	60HP	62HP	64HP	
Model	Model	AVWT-552HHFSE	AVWT-570HHFSE	AVWT-592HHFSE	AVWT-612HHFSE	
	Modules	AVWT-170HHFSE	AVWT-190HHFSE	AVWT-170HHFSE	AVWT-190HHFSE	
		AVWT-170HHFSE	AVWT-190HHFSE	AVWT-190HHFSE	AVWT-190HHFSE	
Power Supply		AC 3Φ 460V/60Hz				
Cooling	Capacity	kW	161.5	168.0	174.0	180.0
		kBtu/h	551.0	573.3	593.7	614.3
	Power Input	kW	46.02	46.41	50.12	51.55
	EER	kW/kW	3.51	3.62	3.47	3.49
Heating	Capacity	kW	181.0	189.0	194.0	201.0
		kBtu/h	617.6	645.0	661.1	685.0
	Power Input	kW	48.27	49.35	52.57	54.32
	COP	kW/kW	3.75	3.83	3.69	3.70
Ventilation	Air Flow Rate	m ³ /min	696	801	763	830
	Fan Quantity		6			
Sound	Sound Power Level	dB(A)	70			
Compressor	Type	-	Enhanced Vapor Injection Compressor			
	Compressor Quantity	PC	6			
Refrigerant	Type	-	R410A			
	Pre-charged Amount	kg	41.9	42.9	43.0	44.1
Weight	Net Weight	kg	1084	1104	1099	1113
	Gross Weight	kg	1159	1206	1184	1208
Dimensions	External (HxWxD)	mm	1730x(1210+1210+1350)x750	1730x(1350+1350+1350)x750	1730x(1210+1350+1350)x750	1730x(1350+1350+1350)x750
	Packing(HxWxD)	mm	1930x(1275+1275+1420)x790	1930x(1420+1420+1420)x790	1930x(1275+1420+1420)x790	1930x(1420+1420+1420)x790
Cabinet Color	-	Ivory White				
Ref. Piping	Gas	mm	Φ44.5			
		in.	1-3/4			
	Liquid	mm	Φ22.2			
		in.	7/8			
Connectable Indoor Units	Quantity	PC	64			
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	1000			
Operation Range	Cooling	°C DB	-5~52			
	Heating	°C WB	-25~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		66HP	68HP	70HP	72HP	
Model	Model	AVWT-634HHFSE	AVWT-654HHFSE	AVWT-676HHFSE	AVWT-696HHFSE	
	Modules	AVWT-190HHFSE	AVWT-190HHFSE	AVWT-212HHFSE	AVWT-232HHFSE	
		AVWT-212HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	
		AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	
Power Supply		AC 3Φ 460V/60Hz				
Cooling	Capacity	kW	185.5	192.0	197.5	204.0
		kBtu/h	633.0	655.3	674.0	696.3
	Power Input	kW	54.01	56.68	59.14	61.82
	EER	kW/kW	3.43	3.39	3.34	3.30
Heating	Capacity	kW	207.0	213.0	219.0	225.0
		kBtu/h	705.4	725.0	745.4	765.0
	Power Input	kW	56.56	59.17	61.52	64.10
	COP	kW/kW	3.66	3.60	3.56	3.51
Ventilation	Air Flow Rate	m ³ /min	859	859	888	888
	Fan Quantity		6			
Sound	Sound Power Level	dB(A)	70	70	70	71
Compressor	Type	-	Enhanced Vapor Injection Compressor			
	Compressor Quantity	PC	6			
Refrigerant	Type	-	R410A			
	Pre-charged Amount	kg	45.3	45.3	46.5	46.5
Weight	Net Weight	kg	1121	1122	1130	1131
	Gross Weight	kg	1209	1210	1211	1212
Dimensions	External (HxWxD)	mm	1730x(1350+1350+1350)x750			
	Packing(HxWxD)	mm	1930x(1420+1420+1420)x790			
Cabinet Color	-		Ivory White			
Ref. Piping	Gas	mm	Φ44.5	Φ50.8		
		in.	1-3/4	2		
	Liquid	mm	Φ22.2	Φ25.4		
		in.	7/8	1		
Connectable Indoor Units	Quantity	PC	64	64		
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	1000			
Operation Range	Cooling	°C DB	-5~52			
	Heating	°C WB	-25~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		74HP	76HP	78HP	80HP	
Model	Model	AVWT-714HHFSE	AVWT-732HHFSE	AVWT-754HHFSE	AVWT-776HHFSE	
	Modules	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	
		AVWT-232HHFSE	AVWT-250HHFSE	AVWT-250HHFSE	AVWT-272HHFSE	
		AVWT-250HHFSE	AVWT-250HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	
Power Supply		AC 3Φ 460V/60Hz				
Cooling	Capacity	kW	208.5	213.0	220.5	228.0
		kBtu/h	710.7	725.1	750.6	776.1
	Power Input	kW	63.12	64.41	66.75	69.09
	EER	kW/kW	3.30	3.31	3.30	3.30
Heating	Capacity	kW	230.0	235.0	245.0	255.0
		kBtu/h	782.0	799.0	833.0	867.0
	Power Input	kW	64.97	65.83	69.21	72.86
	COP	kW/kW	3.54	3.57	3.54	3.50
Ventilation	Air Flow Rate	m ³ /min	942	996	996	996
	Fan Quantity		6			
Sound	Sound Power Level	dB(A)	71			
Compressor	Type	-	Enhanced Vapor Injection Compressor			
	Compressor Quantity	PC	6			
Refrigerant	Type	-	R410A			
	Pre-charged Amount	kg	48.3	50.1	50.1	50.1
Weight	Net Weight	kg	1175	1219	1220	1221
	Gross Weight	kg	1261	1310	1311	1312
Dimensions	External (HxWxD)	mm	1730x((1350+1350+1600))x750	1730x(1350+1600+1600)x750		
	Packing(HxWxD)	mm	1930x(1420+1420+1665)x790	1930x(1420+1665+1665)x790		
Cabinet Color	-		Ivory White			
Ref. Piping	Gas	mm	Φ50.8			
		in.	2			
	Liquid	mm	Φ25.4			
		in.	1			
Connectable Indoor Units	Quantity	PC	64			
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	1000			
Operation Range	Cooling	°C DB	-5~52			
	Heating	°C WB	-25~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		82HP	84HP	86HP	88HP	
Model	Model	AVWT-794HHFSE	AVWT-816HHFSE	AVWT-824HHFSE	AVWT-844HHFSE	
	Modules	AVWT-250HHFSE	AVWT-272HHFSE	AVWT-190HHFSE	AVWT-190HHFSE	
		AVWT-272HHFSE	AVWT-272HHFSE	AVWT-190HHFSE	AVWT-190HHFSE	
		AVWT-272HHFSE	AVWT-272HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	
Power Supply		AC 3Φ 460V/60Hz				
Cooling	Capacity	kW	232.5	240.0	241.5	248.0
		kBtu/h	790.5	816.0	824.1	846.4
	Power Input	kW	70.39	72.73	69.48	72.15
	EER	kW/kW	3.30	3.30	3.48	3.44
Heating	Capacity	kW	260.0	270.0	270.0	276.0
		kBtu/h	884.0	918.0	920.4	940.0
	Power Input	kW	73.65	77.14	72.97	75.62
	COP	kW/kW	3.53	3.50	3.70	3.65
Ventilation	Air Flow Rate	m ³ /min	1050	1050	1126	1126
	Fan Quantity		6		8	
Sound	Sound Power Level	dB(A)	72			
Compressor	Type	-	Enhanced Vapor Injection Compressor			
	Compressor Quantity	PC	6		8	
Refrigerant	Type	-	R410A			
	Pre-charged Amount	kg	51.9	51.9	59.6	57.4
Weight	Net Weight	kg	1265	1266	1489	1497
	Gross Weight	kg	1361	1363	1611	1612
Dimensions	External (HxWxD)	mm	1730x(1600+1600+1600)x750		1730x(1350+1350+1350+1350)x750	
	Packing(HxWxD)	mm	1930x(1665+1665+1665)x790		1930x(1420+1420+1420+1420)x790	
Cabinet Color	-	Ivory White				
Ref. Piping	Gas	mm	Φ50.8			
		in.	2			
	Liquid	mm	Φ25.4			
		in.	1			
Connectable Indoor Units	Quantity	PC	64			
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	1000			
Operation Range	Cooling	°C DB	-5~52			
	Heating	°C WB	-25~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		90HP	92HP	94HP	96HP	
Model	Model	AVWT-866HHFSE	AVWT-886HHFSE	AVWT-908HHFSE	AVWT-928HHFSE	
	Modules	AVWT-190HHFSE	AVWT-190HHFSE	AVWT-212HHFSE	AVWT-232HHFSE	
		AVWT-212HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	
		AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	
Power Supply		AC 3Φ 460V/60Hz				
Cooling	Capacity	kW	253.5	260.0	265.5	272.0
		kBtu/h	865.1	887.4	906.1	928.4
	Power Input	kW	74.61	77.29	79.75	82.42
	EER	kW/kW	3.40	3.36	3.33	3.30
Heating	Capacity	kW	282.0	288.0	294.0	300.0
		kBtu/h	960.4	980.0	1000.4	1020.0
	Power Input	kW	77.90	80.45	82.82	85.47
	COP	kW/kW	3.62	3.58	3.55	3.51
Ventilation	Air Flow Rate	m ³ /min	1155	1155	1184	1184
	Fan Quantity		8			
Sound	Sound Power Level	dB(A)	72			
Compressor	Type	-	Enhanced Vapor Injection Compressor			
	Compressor Quantity	PC	8			
Refrigerant	Type	-	R410A			
	Pre-charged Amount	kg	60.6	61.6	64.3	62.0
Weight	Net Weight	kg	1498	1499	1507	1508
	Gross Weight	kg	1613	1614	1615	1616
Dimensions	External (HxWxD)	mm	1730x(1350+1350+1350+1350)x750			
	Packing(HxWxD)	mm	1930x(1420+1420+1420+1420)x790			
Cabinet Color	-	Ivory White				
Ref. Piping	Gas	mm	Φ50.8			
		in.	2			
	Liquid	mm	Φ25.4			
		in.	1			
Connectable Indoor Units	Quantity	PC	64			
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	1000			
Operation Range	Cooling	°C DB	-5~52			
	Heating	°C WB	-25~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		98HP	100HP	102HP	104HP	
Model	Model	AVWT-946HHFSE	AVWT-968HHFSE	AVWT-988HHFSE	AVWT-1008HHFSE	
	Modules	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-212HHFSE	AVWT-232HHFSE	
		AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	
		AVWT-232HHFSE	AVWT-232HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	
		AVWT-250HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	
Power Supply		AC 3Φ 460V/60Hz				
Cooling	Capacity	kW	276.5	284.0	289.5	296.0
		kBtu/h	942.8	968.3	985.9	1008.0
	Power Input	kW	83.72	86.06	87.02	89.70
	EER	kW/kW	3.30	3.30	3.33	3.30
Heating	Capacity	kW	305.0	315.0	324.0	330.0
		kBtu/h	1037.0	1071.0	1102.4	1122.0
	Power Input	kW	86.40	89.74	91.53	94.29
	COP	kW/kW	3.53	3.51	3.54	3.50
Ventilation	Air Flow Rate	m ³ /min	1238	1238	1292	1292
	Fan Quantity		8			
Sound	Sound Power Level	dB(A)	72	72	72	73
			Enhanced Vapor Injection Compressor			
Compressor	Type		Enhanced Vapor Injection Compressor			
	Compressor Quantity	PC	8			
Refrigerant	Type		R410A			
	Pre-charged Amount	kg	63.8	63.8	65.6	65.6
Weight	Net Weight	kg	1552	1553	1597	1598
	Gross Weight	kg	1665	1666	1715	1716
Dimensions	External (HxWxD)	mm	1730x(1350+1350+1350+1600)x750		1730x(1350+1350+1600+1600)x750	
	Packing(HxWxD)	mm	1930x(1420+1420+1420+1665)x790		1930x(1420+1420+1665+1665)x790	
Cabinet Color			Ivory White			
Ref. Piping	Gas	mm	Φ50.8			
		in.	2			
	Liquid	mm	Φ25.4			
		in.	1			
Connectable Indoor Units	Quantity	PC	64			
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	1000			
Operation Range	Cooling	°C DB	-5~52			
	Heating	°C WB	-25~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

Hi-FLEXi S Series Heat Pump



HP		106HP	108HP	110HP	112HP	
Model	Model	AVWT-1026HHFSE	AVWT-1048HHFSE	AVWT-1066HHFSE	AVWT-1088HHFSE	
	Modules	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-250HHFSE	AVWT-272HHFSE	
		AVWT-250HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	
		AVWT-272HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	
		AVWT-272HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	
Power Supply		AC 3Φ 460V/60Hz				
Cooling	Capacity	kW	300.5	308.0	312.5	320.0
		kBtu/h	1022.6	1048.1	1062.5	1088.0
	Power Input	kW	90.99	93.33	94.63	96.97
	EER	kW/kW	3.30	3.30	3.30	3.30
Heating	Capacity	kW	335.0	345.0	350.0	360.0
		kBtu/h	1139.0	1173.0	1190.0	1224.0
	Power Input	kW	94.90	98.57	99.43	102.86
	COP	kW/kW	3.53	3.50	3.52	3.50
Ventilation	Air Flow Rate	m ³ /min	1346	1346	1400	1400
	Fan Quantity		8			
Sound	Sound Power Level	dB(A)	73	73	73	73
			Enhanced Vapor Injection Compressor			
Compressor	Type		Enhanced Vapor Injection Compressor			
	Compressor Quantity	PC	8			
Refrigerant	Type		R410A			
	Pre-charged Amount	kg	67.4	67.4	69.2	69.2
Weight	Net Weight	kg	1642	1643	1687	1688
	Gross Weight	kg	1765	1766	1815	1816
Dimensions	External (HxWxD)	mm	1730x(1350+1600+1600+1600)x750		1730x(1600+1600+1600+1600)x750	
	Packing(HxWxD)	mm	1930x(1420+1665+1665+1665)x790		1930x(1665+1665+1665+1665)x790	
Cabinet Color			Ivory White			
Ref. Piping	Gas	mm	Φ50.8			
		in.	2			
	Liquid	mm	Φ25.4			
		in.	1			
Connectable Indoor Units	Quantity	PC	64			
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	1000			
Operation Range	Cooling	°C DB	-5~52			
	Heating	°C WB	-25~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
- When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

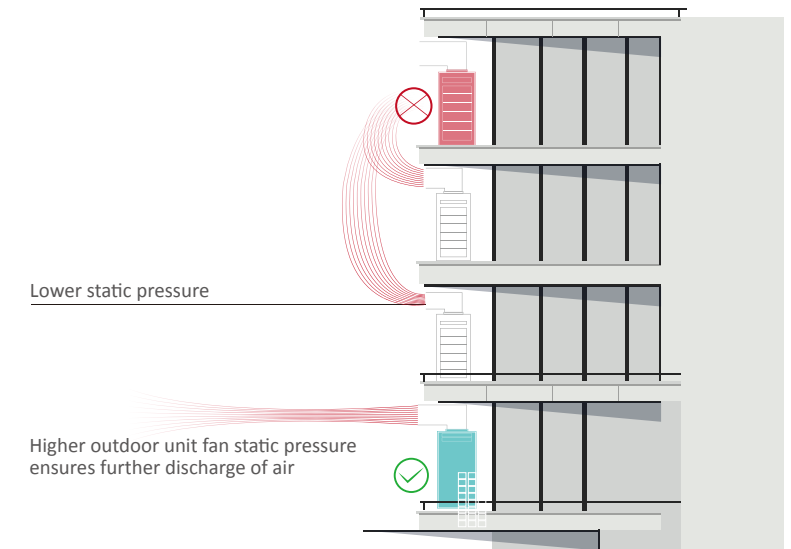
Hi-FLEXi G+ Series Heat Pump



Hi-FLEXi G+ Series Heat Pump

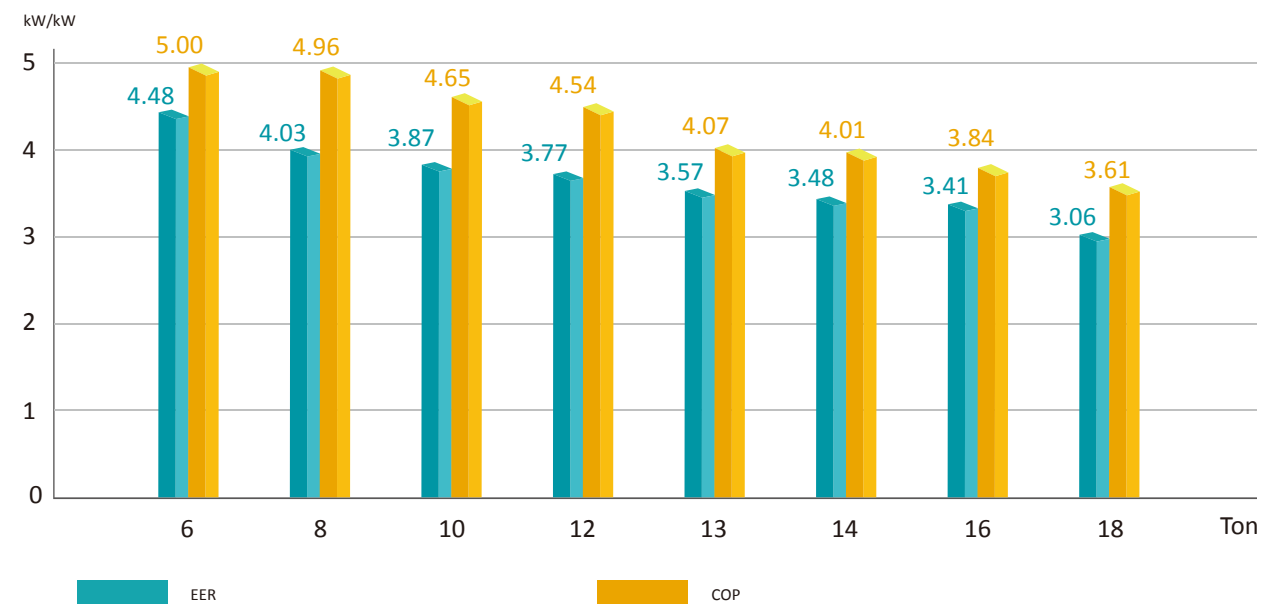
Adaptive fan static pressure technology

External static pressure is essential to determine the air discharge and duct connection distance. Hisense VRF's outdoor unit external static pressure is reachable upto 85Pa. Allowing longer ducting connection for better air discharge when are installed indoors. Besides it offers a more optimum solution for consistent layered outdoor unit placement in a building as to allow air flow further away and preventing the waste air from stranded back in the building.



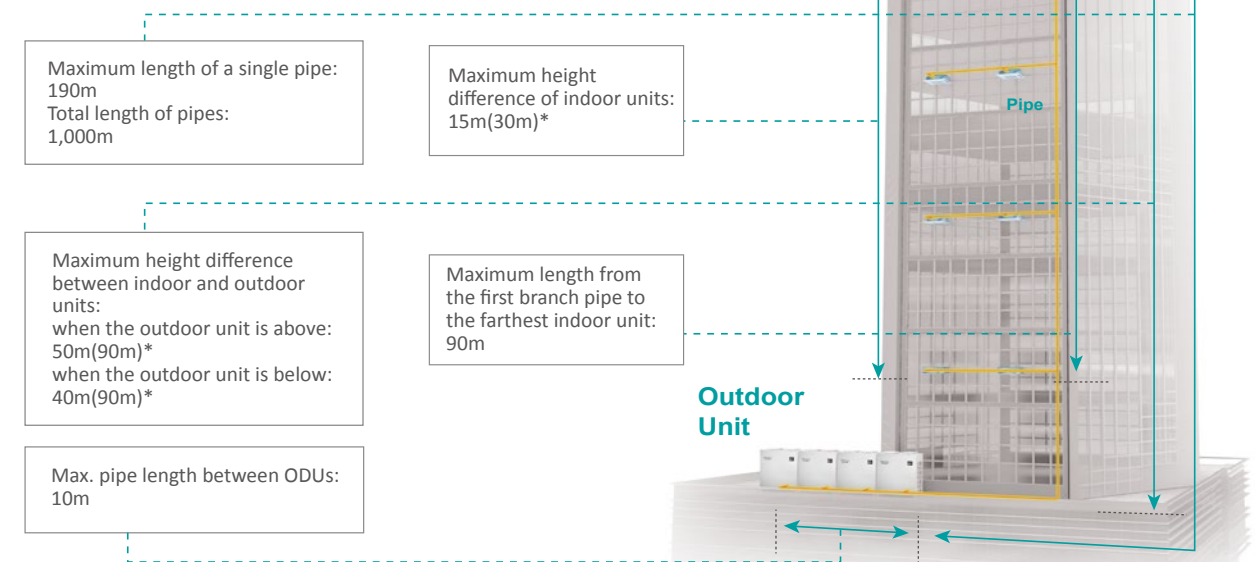
New-efficiency

The Hisense G+ series adopts advanced technology, providing high efficiency combination solution.



Extra long pipe design

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



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

Hi-FLEXi G+ Series Heat Pump



HP			8HP	10HP	12HP
Model	Model		AVWT-76U8SNA#C	AVWT-96U8SNA#C	AVWT-114U8SNA#C
	Modules	-	-	-	-
Power Supply			AC 3Φ 208/230V/60Hz		
Cooling	Capacity	kW	22.4	28.0	33.5
		kBtu/h	76.4	95.5	114.3
	EER	(Btu/h)/W	4.48	4.03	3.87
Heating	Capacity	kW	25.0	31.5	37.5
		kBtu/h	85.3	107.5	128.0
	COP	kW/kW	5.00	4.96	4.65
MCA		A	30.2	36.7	46.1
MOP		A	40	50	60
Ventilation	Air Flow Rate	m ³ /h	155	170	175
	Fan Quantity		1	1	1
Sound	Sound Pressure Level	dB(A)	64	65	66
Compressor	Type	-	Scroll Compressor		
	Compressor Quantity	PC	1	1	1
Refrigerant	Type	-	R410A		
	Pre-charged Amount	kg	8.5	9.9	9.9
Weight	Net Weight	kg	239	240	241
	Gross Weight	kg	251	252	253
Dimensions	External(H×W×D)	mm	1730×950×750		
	Packing(H×W×D)	mm	1930×1015×790		
Cabinet Color	-		Ivory White		
Ref. Piping	Gas	mm	Φ19.05	Φ22.2	Φ25.4
		in.	3/4	7/8	1
	Liquid	mm	Φ9.53	Φ9.53	Φ12.7
		in.	3/8	3/8	1/2
Connectable Indoor Units	Quantity	PC	13	16	19
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)		
		m	When the Outdoor Unit is Below: 40m (90m*)		
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)		
	Max. Piping Length	m	165		
Operation Range	Cooling	°C DB	-5~48*		
	Heating	°C WB	-20~16.5		

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Hi-FLEXi G+ Series Heat Pump



HP			14HP	16HP	18HP	20HP	22HP
Model	Model		AVWT-136U8STA#C	AVWT-154U8STA#C	AVWT-170U8STA#C	AVWT-190U8S1A#C	AVWT-212U8S1A#C
	Modules	-	-	-	-	-	-
Power Supply			AC 3Φ 208/230V/60Hz				
Cooling	Capacity	kW	40.0	45.0	50.0	56.0	61.5
		kBtu/h	136.5	153.5	170.6	191.1	209.8
	EER	(Btu/h)/W	3.77	3.57	3.48	3.41	3.06
Heating	Capacity	kW	45.0	50.0	56.0	63.0	69.0
		kBtu/h	153.5	170.6	191.1	215.0	235.4
	COP	kW/kW	4.54	4.07	4.01	3.84	3.61
MCA		A	50.3	55.4	67.2	80.3	85.4
MOP		A	70	70	90	110	110
Ventilation	Air Flow Rate	m ³ /h	195	195	240	255	270
	Fan Quantity		1	1	1	2	2
Sound	Sound Pressure Level	dB(A)	68	68	68	69	69
Compressor	Type	-	Scroll Compressor				
	Compressor Quantity	PC	2	2	2	2	2
Refrigerant	Type	-	R410A				
	Pre-charged Amount	kg	12.5	12.5	12.5	15.7	16.2
Weight	Net Weight	kg	331	332	333	394	395
	Gross Weight	kg	353	354	355	415	416
Dimensions	External(H×W×D)	mm	1730×1210×750			1730×1350×750	
	Packing(H×W×D)	mm	1930×1275×790			1930×1420×790	
Cabinet Color	-		Ivory White				
Ref. Piping	Gas	mm	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6
		in.	1	1-1/8	1-1/8	1-1/8	1-1/8
	Liquid	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
		in.	1/2	1/2	5/8	5/8	5/8
Connectable Indoor Units	Quantity	PC	23	26	26	33	36
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)				
		m	When the Outdoor Unit is Below: 40m (90m*)				
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)				
	Max. Piping Length	m	165				
Operation Range	Cooling	°C DB	-5~48*				
	Heating	°C WB	-20~16.5				

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Hi-FLEXi G+ Series Heat Pump



HP			24HP	26HP	28HP	30HP	32HP
Model	Model		AVWT-232U8SZA#C	AVWT-250U8SZA#C	AVWT-268U8SZA#C	AVWT-287U8SZA#C	AVWT-306U8SZA#C
	Modules		AVWT-96U8SNA#C AVWT-136U8SNA#C	AVWT-114U8SNA#C AVWT-136U8SNA#C	AVWT-114U8SNA#C AVWT-154U8SNA#C	AVWT-96U8SNA#C AVWT-190U8SNA#C	AVWT-114U8SNA#C AVWT-190U8SNA#C
Power Supply			AC 3Φ 208/230V/60Hz				
Cooling	Capacity	kW	68.0	73.5	78.5	84.0	89.5
		kBtu/h	232.0	250.8	267.8	286.6	305.4
	EER	(Btu/h)/W	3.87	3.81	3.69	3.59	3.57
Heating	Capacity	kW	76.5	82.5	87.5	94.5	100.5
		kBtu/h	261.0	281.5	298.6	322.4	342.9
	COP	kW/kW	4.71	4.59	4.30	4.15	4.11
MCA		A	87.0	96.4	101.5	117.0	126.4
MOP		A	120	130	130	160	170
Ventilation	Air Flow Rate	m ³ /h	365	370	370	425	430
	Fan Quantity		2	2	2	3	3
Sound	Sound Pressure Level	dB(A)	69	70	73	73	73
Compressor	Type	-	Scroll Compressor				
	Compressor Quantity	PC	3	3	3	3	3
Refrigerant	Type	-	R410A				
	Pre-charged Amount	kg	22.4	22.4	22.4	25.6	25.6
Weight	Net Weight	kg	571	572	573	634	635
	Gross Weight	kg	605	606	607	667	668
Dimensions	External(H×W×D)	mm	1730×(950+1210)×750			1730×(950+1350)×750	
	Packing(H×W×D)	mm	1930×(1015+1275)×790			1930×(1015+1420)×790	
Cabinet Color	-		Ivory White				
Ref. Piping	Gas	mm	Φ28.6	Φ31.75	Φ31.75	Φ31.75	Φ31.75
		in.	1-1/8	1-1/4	1-1/4	1-1/4	1-1/4
	Liquid	mm	Φ15.88	Φ19.05	Φ19.05	Φ19.05	Φ19.05
		in.	5/8	3/4	3/4	3/4	3/4
Connectable Indoor Units	Quantity	PC	40	43	47	50	53
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)				
		m	When the Outdoor Unit is Below: 40m (90m*)				
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)				
	Max. Piping Length	m	165				
Operation Range	Cooling	°C DB	-5~48*				
	Heating	°C WB	-20~16.5				

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Hi-FLEXi G+ Series Heat Pump



HP			34HP	36HP	38HP
Model	Model		AVWT-324U8SZA#C	AVWT-340U8SZA#C	AVWT-364U8SZA#C
	Modules		AVWT-154U8SNA#C AVWT-170U8SNA#C	AVWT-170U8SNA#C AVWT-170U8SNA#C	AVWT-154U8SNA#C AVWT-212U8SNA#C
Power Supply			AC 3Φ 208/230V/60Hz		
Cooling	Capacity	kW	95	100	106.5
		kBtu/h	324.1	341.2	363.4
	EER	(Btu/h)/W	3.52	3.48	3.26
Heating	Capacity	kW	106.0	112.0	119.0
		kBtu/h	361.7	382.1	406.0
	COP	kW/kW	4.04	4.01	3.79
MCA		A	122.6	134.4	140.8
MOP		A	160	180	180
Ventilation	Air Flow Rate	m ³ /h	435	480	465
	Fan Quantity		2	2	3
Sound	Sound Pressure Level	dB(A)	73	73	73
Compressor	Type	-	Scroll Compressor		
	Compressor Quantity	PC	4	4	4
Refrigerant	Type	-	R410A		
	Pre-charged Amount	kg	25.0	25.0	28.7
Weight	Net Weight	kg	665	666	727
	Gross Weight	kg	709	710	770
Dimensions	External(H×W×D)	mm	1730×(1210+1210)×750		1730×(1210+1350)×750
	Packing(H×W×D)	mm	1930×(1275+1275)×790		1930×(1275+1420)×790
Cabinet Color	-		Ivory White		
Ref. Piping	Gas	mm	Φ38.1	Φ38.1	Φ38.1
		in.	1-1/2	1-1/2	1-1/2
	Liquid	mm	Φ19.05	Φ19.05	Φ19.05
		in.	3/4	3/4	3/4
Connectable Indoor Units	Quantity	PC	56	59	64
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)		
		m	When the Outdoor Unit is Below: 40m (90m*)		
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)		
	Max. Piping Length	m	165		
Operation Range	Cooling	°C DB	-5~48*		
	Heating	°C WB	-20~16.5		

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Hi-FLEXi G+ Series Heat Pump



HP			40HP	42HP	44HP
Model	Model		AVWT-382U8SZA#C	AVWT-398U8SZA#C	AVWT-420U8SZA#C
	Modules		AVWT-190U8SNA#C AVWT-190U8SNA#C	AVWT-190U8SNA#C AVWT-212U8SNA#C	AVWT-212U8SNA#C AVWT-212U8SNA#C
Power Supply			AC 3Φ 208/230V/60Hz		
Cooling	Capacity	kW	112	117.5	123
		kBtu/h	382.1	400.9	419.7
	EER	(Btu/h)/W	3.41	3.22	3.06
Heating	Capacity	kW	126.0	132.0	138.0
		kBtu/h	429.9	450.4	470.9
	COP	kW/kW	3.84	3.72	3.61
MCA		A	160.6	165.7	170.8
MOP		A	220	220	220
Ventilation	Air Flow Rate	m³/h	510	525	540
	Fan Quantity		4	4	4
Sound	Sound Pressure Level	dB(A)	74	74	74
Compressor	Type	-	Scroll Compressor		
	Compressor Quantity	PC	4	4	4
Refrigerant	Type	-	R410A		
	Pre-charged Amount	kg	31.4	31.9	32.4
Weight	Net Weight	kg	788	789	790
	Gross Weight	kg	830	831	832
Dimensions	External(H×W×D)	mm	1730×(1350+1350)×750		
	Packing(H×W×D)	mm	1930×(1420+1420)×790		
Cabinet Color	-		Ivory White		
Ref. Piping	Gas	mm	Φ38.1	Φ38.1	Φ38.1
		in.	1-1/2	1-1/2	1-1/2
	Liquid	mm	Φ19.05	Φ19.05	Φ19.05
		in.	3/4	3/4	3/4
Connectable Indoor Units	Quantity	PC	64	64	64
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)		
		m	When the Outdoor Unit is Below: 40m(90m*)		
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)		
	Max. Piping Length	m	165		
Operation Range	Cooling	°C DB	-5~48*		
	Heating	°C WB	-20~16.5		

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Hi-FLEXi G+ Series Heat Pump



HP			46HP	48HP	50HP	52HP	54HP
Model	Model		AVWT-438U8SZA#C	AVWT-454U8SZA#C	AVWT-476U8SZA#C	AVWT-494U8SZA#C	AVWT-510U8SZA#C
	Modules		AVWT-114U8SNA#C AVWT-154U8SNA#C AVWT-170U8SNA#C	AVWT-114U8SNA#C AVWT-170U8SNA#C AVWT-170U8SNA#C	AVWT-114U8SNA#C AVWT-154U8SNA#C AVWT-212U8SNA#C	AVWT-114U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-170U8SNA#C
Power Supply			AC 3Φ 208/230V/60Hz				
Cooling	Capacity	kW	128.5	133.5	140	145.0	150
		kBtu/h	438.4	455.5	477.7	494.7	511.8
	EER	(Btu/h)/W	3.61	3.57	3.38	3.36	3.48
Heating	Capacity	kW	143.5	149.5	156.5	162.5	168.0
		kBtu/h	489.6	510.1	534.0	554.5	573.2
	COP	kW/kW	4.18	4.15	3.97	3.95	4.01
MCA		A	168.7	180.5	186.9	198.7	201.6
MOP		A	220	240	240	260	270
Ventilation	Air Flow Rate	m³/h	610	655	640	685	720
	Fan Quantity		3	3	4	4	3
Sound	Sound Pressure Level	dB(A)	75	75	75	75	75
Compressor	Type	-	Scroll Compressor				
	Compressor Quantity	PC	5	5	5	5	6
Refrigerant	Type	-	R410A				
	Pre-charged Amount	kg	34.9	34.9	38.6	38.6	37.5
Weight	Net Weight	kg	906	907	968	969	999
	Gross Weight	kg	962	963	1023	1024	1065
Dimensions	External(H×W×D)	mm	1730×(950+1210+1210)×750		1730×(950+1210+1350)×750		1730×(1210+1210+1210)×750
	Packing(H×W×D)	mm	1930×(1015+1275+1275)×790		1930×(1015+1275+1420)×790		1930×(1275+1275)×790
Cabinet Color	-		Ivory White				
Ref. Piping	Gas	mm	Φ41.3	Φ41.3	Φ41.3	Φ41.3	Φ41.3
		in.	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8
	Liquid	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2
		in.	7/8	7/8	7/8	7/8	7/8
Connectable Indoor Units	Quantity	PC	64	64	64	64	64
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)				
		m	When the Outdoor Unit is Below: 40m(90m*)				
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)				
	Max. Piping Length	m	165				
Operation Range	Cooling	°C DB	-5~48*				
	Heating	°C WB	-20~16.5				

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Hi-FLEXi G+ Series Heat Pump



HP			56HP	58HP	60HP	62HP	64HP	66HP
Model	Model		AVWT-534U8SZA#C	AVWT-551U8SZA#C	AVWT-572U8SZA#C	AVWT-590U8SZA#C	AVWT-611U8SZA#C	AVWT-630U8SZA#C
	Modules		AVWT-154U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-190U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-190U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C
Power Supply			AC 3Φ 208/230V/60Hz					
Cooling	Capacity	kW	156.5	161.5	167.5	173	179	184.5
		kBtu/h	534.0	551.0	571.5	590.3	610.7	629.5
	EER	(Btu/h)/W	3.32	3.31	3.29	3.17	3.16	3.06
Heating	Capacity	kW	175.0	181.0	188.0	194.0	201.0	207.0
		kBtu/h	597.1	617.6	641.5	661.9	685.8	706.3
	COP	kW/kW	3.86	3.85	3.80	3.72	3.68	3.61
MCA		A	208.0	219.8	232.9	238.0	251.1	256.2
MOP		A	270	290	310	310	330	330
Ventilation	Air Flow Rate	m ³ /h	705	750	765	780	795	810
	Fan Quantity		4	4	5	5	6	6
Sound	Sound Pressure Level	dB(A)	76	76	76	76	76	76
Compressor	Type	-	Scroll Compressor					
	Compressor Quantity	PC	6	6	6	6	6	6
Refrigerant	Type	-	R410A					
	Pre-charged Amount	kg	41.2	41.2	44.4	44.9	48.1	48.6
Weight	Net Weight	kg	1061	1061	1122	1123	1184	1185
	Gross Weight	kg	1125	1126	1186	1187	1247	1248
Dimensions	External(HxWxD)	mm	1730x(1210+1210+1210)x750	1730x(1210+1350+1350)x750	1730x(1350+1350+1350)x750			
	Packing(HxWxD)	mm	1930x(1275+1275+1420)x790	1930x(1275+1420+1420)x790	1930x(1420+1420+1420)x790			
Cabinet Color	-		Ivory White					
Ref. Piping	Gas	mm	Φ41.3	Φ44.5	Φ44.5	Φ44.5	Φ44.5	Φ44.5
		in.	1-5/8	1-3/4	1-3/4	1-3/4	1-3/4	1-3/4
	Liquid	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2
		in.	7/8	7/8	7/8	7/8	7/8	7/8
Connectable Indoor Units	Quantity	PC	64	64	64	64	64	64
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)					
		m	When the Outdoor Unit is Below: 40m (90m*)					
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)					
	Max. Piping Length	m	165					
Operation Range	Cooling	°C DB	-5~48*					
	Heating	°C WB	-20~16.5					

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Hi-FLEXi G+ Series Heat Pump



HP			68HP	70HP	72HP	74HP
Model	Model		AVWT-649U8SZA#C	AVWT-666U8SZA#C	AVWT-688U8SZA#C	AVWT-705U8SZA#C
	Modules		AVWT-114U8SNA#C AVWT-154U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C	AVWT-114U8SNA#C AVWT-154U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C	AVWT-114U8SNA#C AVWT-154U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-114U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C
Power Supply			AC 3Φ 208/230V/60Hz			
Cooling	Capacity	kW	190	195	201.5	206.5
		kBtu/h	648.3	665.3	687.5	704.6
	EER	(Btu/h)/W	3.30	3.39	3.28	3.27
Heating	Capacity	kW	212.5	218.5	225.5	231.5
		kBtu/h	725.1	745.5	769.4	789.9
	COP	kW/kW	3.98	3.97	3.85	3.84
MCA		A	254.1	265.9	272.3	284.1
MOP		A	330	350	350	370
Ventilation	Air Flow Rate	m ³ /h	880	925	910	955
	Fan Quantity		5	5	6	6
Sound	Sound Pressure Level	dB(A)	77	77	77	77
Compressor	Type	-	Scroll Compressor			
	Compressor Quantity	PC	7	7	7	7
Refrigerant	Type	-	R410A			
	Pre-charged Amount	kg	51.1	51.1	54.8	54.8
Weight	Net Weight	kg	1301	1302	1363	1364
	Gross Weight	kg	1378	1379	1439	1440
Dimensions	External(HxWxD)	mm	1730x(950+1210+1210+1350)x750	1730x(950+1210+1350+1350)x750	1730x(950+1210+1350+1350)x750	1730x(950+1210+1350+1350)x750
	Packing(HxWxD)	mm	1930x(1015+1275+1275+1420)x790	1930x(1015+1275+1420)x790	1930x(1015+1275+1420+1420)x790	1930x(1015+1275+1420+1420)x790
Cabinet Color	-		Ivory White			
Ref. Piping	Gas	mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8
		in.	2	2	2	2
	Liquid	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
		in.	1	1	1	1
Connectable Indoor Units	Quantity	PC	64	64	64	64
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	165			
Operation Range	Cooling	°C DB	-5~48*			
	Heating	°C WB	-20~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Hi-FLEXi G+ Series Heat Pump



HP			76HP	78HP	80HP
Model	Model		AVWT-722U8SZA#C AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C	AVWT-742U8SZA#C AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-190U8SNA#C AVWT-212U8SNA#C	AVWT-761U8SZA#C AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C
	Modules				
Power Supply			AC 3Φ 208/230V/60Hz		
Cooling	Capacity	kW	211.5	217.5	223
		kBtu/h	721.6	742.1	760.9
	EER	(Btu/h)/W	3.35	3.33	3.24
Heating	Capacity	kW	237.0	244.0	250.0
		kBtu/h	808.6	832.5	853.0
	COP	kW/kW	3.88	3.85	3.78
MCA		A	287.0	300.1	305.2
MOP		A	380	400	400
Ventilation	Air Flow Rate	m ³ /h	990	1,005	1,020
	Fan Quantity		5	6	6
Sound	Sound Pressure Level	dB(A)	77	77	77
Compressor	Type	-	Scroll Compressor		
	Compressor Quantity	PC	8	8	8
Refrigerant	Type	-	R410A		
	Pre-charged Amount	kg	53.7	56.9	57.4
Weight	Net Weight	kg	1394	1455	1456
	Gross Weight	kg	1481	1541	1542
Dimensions	External(HxWxD)	mm	1730x(1210+1210+1210+1350)x750	1730x(1210+1210+1350+1350)x750	
	Packing(HxWxD)	mm	1930x(1275+1275+1275+1420)x790	1930x(1275+1275+1420+1420)x790	
Cabinet Color		-	Ivory White		
Ref. Piping	Gas	mm	Φ50.8	Φ50.8	Φ50.8
		in.	2	2	2
	Liquid	mm	Φ25.4	Φ25.4	Φ25.4
		in.	1	1	1
Connectable Indoor Units	Quantity	PC	64	64	64
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)		
		m	When the Outdoor Unit is Below: 40m (90m*)		
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)		
	Max. Piping Length	m	165		
Operation Range	Cooling	°C DB	-5~48*		
	Heating	°C WB	-20~16.5		

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

Hi-FLEXi G+ Series Heat Pump



HP			82HP	84HP	86HP	88HP
Model	Model		AVWT-782U8SZA#C AVWT-170U8SNA#C AVWT-190U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-800U8SZA#C AVWT-170U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-821U8SZA#C AVWT-190U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-840U8SZA#C AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C
	Modules					
Power Supply			AC 3Φ 208/230V/60Hz			
Cooling	Capacity	kW	229	234.5	240.5	246
		kBtu/h	781.3	800.1	820.6	839.4
	EER	(Btu/h)/W	3.23	3.14	3.13	3.06
Heating	Capacity	kW	257.0	263.0	270.0	276.0
		kBtu/h	876.9	897.4	921.2	941.7
	COP	kW/kW	3.75	3.69	3.66	3.61
MCA		A	318.3	323.4	336.5	341.6
MOP		A	420	420	440	440
Ventilation	Air Flow Rate	m ³ /h	1,035	1,050	1,065	1,080
	Fan Quantity		7	7	8	8
Sound	Sound Pressure Level	dB(A)	77	77	77	77
Compressor	Type	-	Scroll Compressor			
	Compressor Quantity	PC	8	8	8	8
Refrigerant	Type	-	R410A			
	Pre-charged Amount	kg	60.6	61.1	64.3	64.8
Weight	Net Weight	kg	1517	1518	1579	1580
	Gross Weight	kg	1602	1603	1663	1664
Dimensions	External(HxWxD)	mm	1730x(1210+1350+1350+1350)x750	1730x(1350+1350+1350+1350)x750		
	Packing(HxWxD)	mm	1930x(1275+1420+1420+1420)x790	1930x(1420+1420+1420+1420)x790		
Cabinet Color		-	Ivory White			
Ref. Piping	Gas	mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8
		in.	2	2	2	2
	Liquid	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
		in.	1	1	1	1
Connectable Indoor Units	Quantity	PC	64	64	64	64
Piping Design	Height Difference Between ODU and IDU	m	When the Outdoor Unit is Above: 50m(90m*)			
		m	When the Outdoor Unit is Below: 40m (90m*)			
	Height Difference Between IDUs	m	Maximum Height Difference of Indoor Units: 15m(30m*)			
	Max. Piping Length	m	165			
Operation Range	Cooling	°C DB	-5~48*			
	Heating	°C WB	-20~16.5			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professional engineer.
- When the cooling operation temperature is over 43°C, please contact our professional engineer.

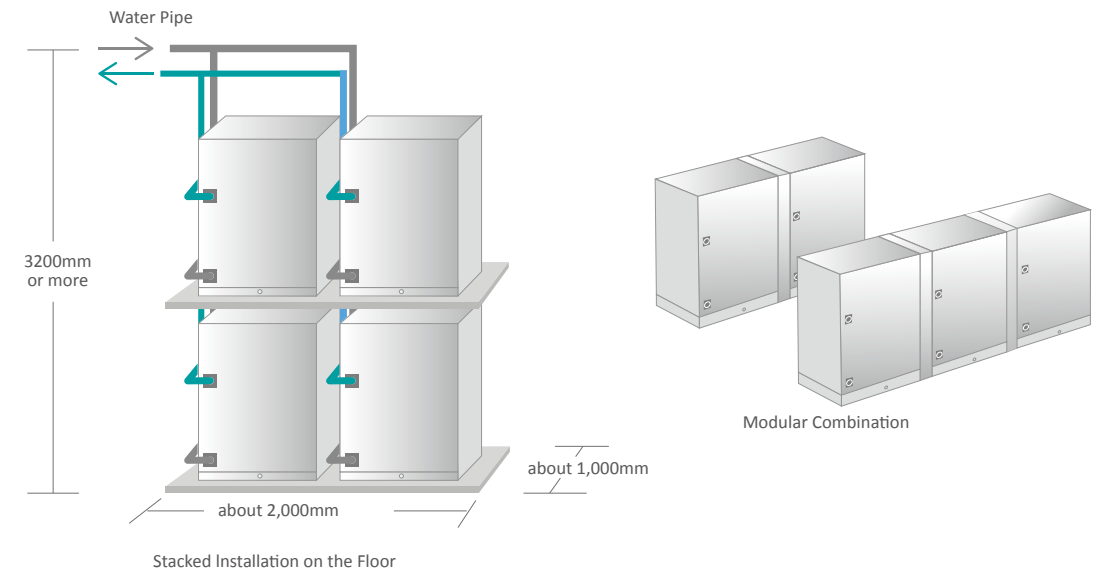
Hi-FLEXi W Series Water Source Heat Pump



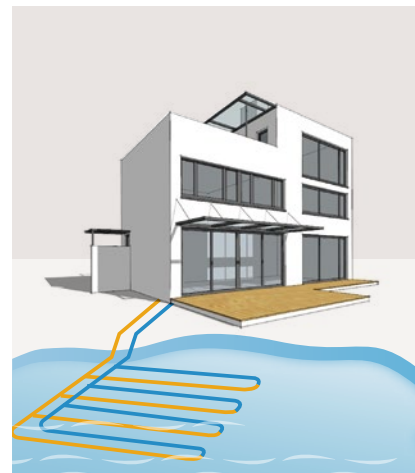
Hi-FLEXi W Series Water Source Heat Pump

Modular structure, flexible installation

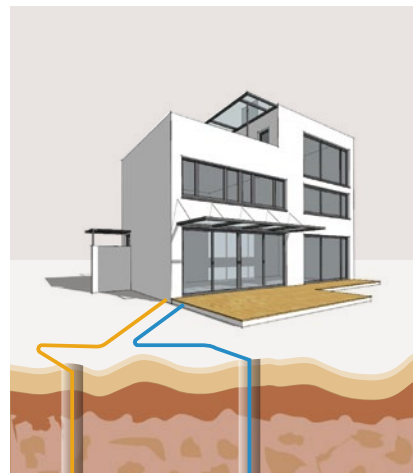
The same module size helps realize modular combination, and multiple units can be stacked centrally. More branch pipe can be chosen according to total capacity of indoor units connected downstream, which greatly facilitates refrigerant pipe work on site and simplifies the procedure of construction.



Application



Adoption of surface water



Adoption of soil source

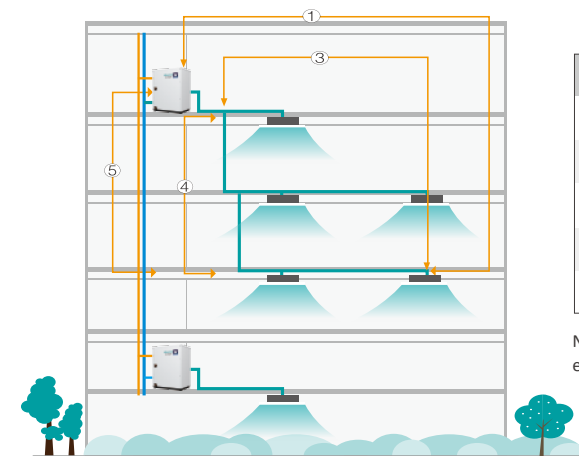


Cooling tower

Long pipe design

Combining water cycling system with refrigerant cycling system, the pipe length of water cycling system is not affected by the scale of building, so the units can be installed close to the A/C area, easily to meet the demand of large-scale and high-rise building. The units adopts two-stage super cooling technology to enhance the cooling capacity and make longer pipes, as well as the longer side pipes of refrigerant.

For chiller system, it provides heat or cold water source directly for indoor units, to reduce more power consumption of pump due to long pipes. What's more, the energy of refrigerating medium will be dissipated during transmission.



Model	8-10HP
① Max. Equivalent Pipe Length	120m
② Total Piping Length	300m
③ Max. Distance Between 1st Branch and Indoor Unit	40m
④ Max. Height Difference Between Indoor Units	15m
⑤ Max. Height Difference Between I.U. and O.U. (O.U. is lower than I.U.)	50(40)m

Note: For the high-rise building, the water pressure limit that the plate heat exchanger bears must be taken into consideration.

Hi-FLEXi W Series Water Source Heat Pump



HP			3HP	4HP	5HP	6HP	8HP	10HP	
Model	Model		AVWW-28U2SA	AVWW-38U2SA	AVWW-48U2SA	AVWW-54U2SA	AVWW-72U9SCHC	AVWW-96U9SCHC	
	Modules		-	-	-	-	-	-	
Power Supply			AC 1Φ 220V/60Hz				AC 3Φ 208/230V/60Hz		
Cooling	Capacity	kW	8.00	11.20	14.00	15.50	20.2	28.1	
		kBtu/h	27.3	38.2	47.8	52.9	69.0	96.0	
	EER(Ducted/Non-ducted)	(Btu/h)/W	4.21	4.31	4.11	3.99	14.40/17.00	12.30/13.40	
	IEER(Ducted/Non-ducted)	(Btu/h)/W	-	-	-	-	24.30/28.30	25.20/27.30	
Heating	Capacity	kW	9.00	12.5	16.00	18.00	22.6	30.3	
		kBtu/h	30.7	42.7	54.6	61.4	77.0	103.0	
	COP(Ducted/Non-ducted)	kW/kW	5.00	5.21	5.10	5.00	4.94/5.70	5.13/4.70	
MCA	A	-	-	-	-	31.00	31.00		
MOP	A	-	-	-	-	40.00	40.00		
Sound	Sound Pressure Level	dB(A)	49	51	51	51	50 / 51	51 / 52	
	Power	dB(A)	-	-	-	-	64 / 65	65 / 66	
Compressor	Type	-	Scroll Compressor						
Refrigerant	Type	-	R410A						
	Pre-charged Amount	kg	-	-	-	-	2.2		
Weight	Net Weight	kg	78	100	100	100	160		
	Gross Weight	kg	85	107	107	107	165		
Dimensions	External (H*W*D)	mm	980X450X930				1000X780X550		
	Packing(H*W*D)	mm	-				1120X850X600		
Cabinet Color	-		Ivory White						
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2	
		in.	5/8	5/8	5/8	5/8	3/4	7/8	
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7	
		in.	3/8	3/8	3/8	3/8	1/2	1/2	
Design Pressure	High	MPa	4.15						
	Low	MPa	2.21						
Water Side Heat Exchange	Water Temp. Range	°C	10~45						
	Water Flow Rate	l/min	30	38	48	53	75.0	105	
	Water Pressure Drop	kPa	30	30	35	40	17.6	24.6	
Water Piping	Water Inlet/Outlet Pipline Diameter	in.	-				1-21/32		
	Thread of Connector		G1B				G1 1/4B		
	Drain Pipe/Hole	mm	18.0						
Water Side Bearing Pressure Capacity		kgf/cm ³	20.0						

Notes:

1. Rated capacity and efficiency is certified under AHRI Standard 1230, "Performance Rating of Variable Refrigerant Flow (VRF) Multi-Split Air Conditioning and Heat Pump Equipment"

2. The sound pressure is based on the following conditions.

3. 1m from the unit service cover surface, and 1.5m from floor level.

The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB.

The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. When unit is used out of the allowable range of water temperature, the unit will not start normally and will show water temperature alarm. In cooling operation, unit operates continuously in a range of 15~45°C.

4. It is the thread of connection joint for heat source inlet/outlet of condenser unit.

5. For AHRI rating, refer to the AHRI website <http://www.ahridirectory.org>.

Hi-FLEXi W Series Water Source Heat Pump



HP			16HP	18HP	20HP	24HP	26HP	28HP	30HP
Model	Model		AVWW-144U9SCHC	AVWW-168U9SCHC	AVWW-192U9SCHC	AVWW-216U9SCHC	AVWW-240U9SCHC	AVWW-264U9SCHC	AVWW-288U9SCHC
	Modules		AVWW-72U9SCHC AVWW-72U9SCHC	AVWW-72U9SCHC AVWW-96U9SCHC	AVWW-96U9SCHC AVWW-96U9SCHC	AVWW-72U9SCHC AVWW-72U9SCHC AVWW-72U9SCHC	AVWW-72U9SCHC AVWW-72U9SCHC AVWW-96U9SCHC	AVWW-72U9SCHC AVWW-96U9SCHC AVWW-96U9SCHC	AVWW-96U9SCHC AVWW-96U9SCHC AVWW-96U9SCHC
Power Supply			AC 3Φ 208/230V/60Hz						
Cooling	Capacity	kW	42.2	48.1	56.3	60.4	68.6	76.2	84.4
		kBtu/h	144.0	164.0	192.0	206.0	234.0	260.0	288.0
	EER(Ducted/Non-ducted)	(Btu/h)/W	13.00/14.95	11.80/12.80	11.10/11.20	12.30/12.50	11.40/11.40	11.60/11.40	10.10/10.10
	IEER(Ducted/Non-ducted)	(Btu/h)/W	23.80/25.80	22.60/24.40	21.40/23.60	22.60/22.50	21.40/21.40	21.60/21.40	19.60/19.40
Heating	Capacity	kW	45.1	52.8	60.4	67.4	75.0	82.7	90.3
		kBtu/h	154.0	180.0	206.0	230.0	256.0	282.0	308.0
	COP(Ducted/Non-ducted)	kW/kW	5.02/5.34	4.81/5.07	4.47/5.00	4.73/5.14	4.53/4.94	4.70/4.81	4.24/4.69
MCA	A	62.00	62.00	62.00	93.0	93.0	93.0	93.0	
MOP	A	80.00	80.00	80.00	120.0	120.0	120.0	120.0	
Sound	Sound Pressure Level	dB(A)	52 / 53	52 / 53	53 / 54	55/56	55/56	56/57	56/57
	Power	dB(A)	66 / 67	66 / 67	67 / 68	69/70	69/70	70/71	70/71
Compressor	Type	-	Scroll Compressor						
Refrigerant	Type	-	R410A						
	Pre-charged Amount	kg	2.2+2.2			2.2+2.2+2.2			
Weight	Net Weight	kg	160+160			160+160+160			
	Gross Weight	kg	165+165			165+165+165			
Dimensions	External (H*W*D)	mm	1000X(780+780)X550				1000X(780+780+780)X550		
	Packing(H*W*D)	mm	1120X(850+850)X600				1120X(850+850+850)X600		
Cabinet Color	-		Ivory White						
Ref. Piping	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ31.75	Φ31.75	Φ31.75
		in.	1-1/8	1-1/8	1-1/8	1-1/8	1-1/4	1-1/4	1-1/4
	Liquid	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ19.05	Φ19.05	Φ19.05
		in.	5/8	5/8	5/8	3/4	3/4	3/4	3/4
Design Pressure	High	MPa	4.15						
	Low	MPa	2.21						
Water Side Heat Exchange	Water Temp. Range	°C	10~45						
	Water Flow Rate	l/min	150	180	210	225	255	285	315
	Water Pressure Drop	kPa	17.6	21.1	24.6	17.6	19.9	22.3	24.6
Water Piping	Water Inlet/Outlet Pipline Diameter	in.	1-21/32						
	Thread of Connector		G1 1/4B						
	Drain Pipe/Hole	mm	18.0						
Water Side Bearing Pressure Capacity		kgf/cm ³	20.0						

Notes:

1. Rated capacity and efficiency is certified under AHRI Standard 1230, "Performance Rating of Variable Refrigerant Flow (VRF) Multi-Split Air Conditioning and Heat Pump Equipment"

2. The sound pressure is based on the following conditions.

3. 1m from the unit service cover surface, and 1.5m from floor level.

The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB.

The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3. When unit is used out of the allowable range of water temperature, the unit will not start normally and will show water temperature alarm. In cooling operation, unit operates continuously in a range of 15~45°C.

4. It is the thread of connection joint for heat source inlet/outlet of condenser unit.

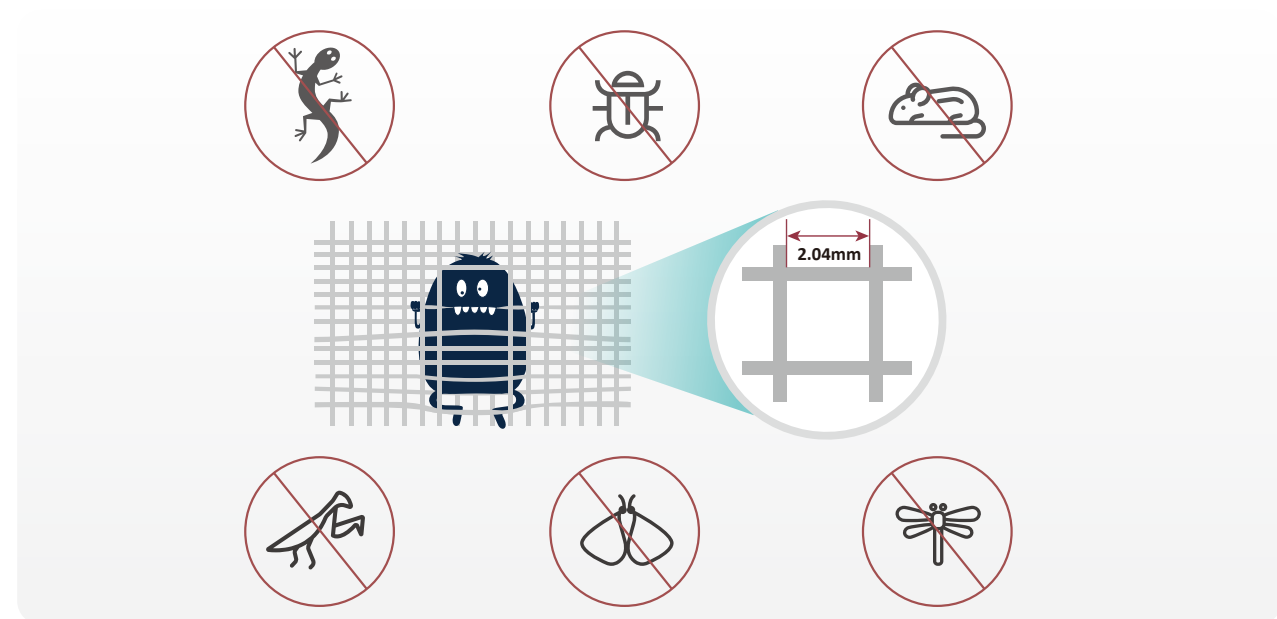
5. For AHRI rating, refer to the AHRI website <http://www.ahridirectory.org>.

Hi-FLEXi H Series Heat Pump



Insect protection design

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



Hi-FLEXi H Series Heat Pump

Flexible refrigerant piping work

With extra long pipe, the height difference between the indoor unit and outdoor unit is up to 30m(98ft.) *, which makes installation more flexible.

Max. piping length between 1st branch and indoor unit: L3

Height difference between ODUs and IDUs:
Outdoor unit is higher: H1 Outdoor unit is lower: H2

Max. Height difference between indoor units: *H3

Max. piping length: L2
Max. total piping length: L1

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



Power supply	AC 1Φ 220V-240V/60Hz	AC 1Φ 220V/60Hz	AC 3Φ 208/230V/60Hz
HP	3/4/5	4/5/6	8/10/12
Picture			
Total piping length-L1	30m	120m	250m
longest length actual-L2	25m	75m	100m
Longest length after first branch-L3	10m	30m	40m
Level difference between indoor and outdoor unit up	Outdoor unit is higher-H1	20m	50m
	Outdoor unit is lower-H2	20m	40m
Level difference between indoor unit H3	3.5m	10m	15m

Hi-FLEXi H Series Heat Pump

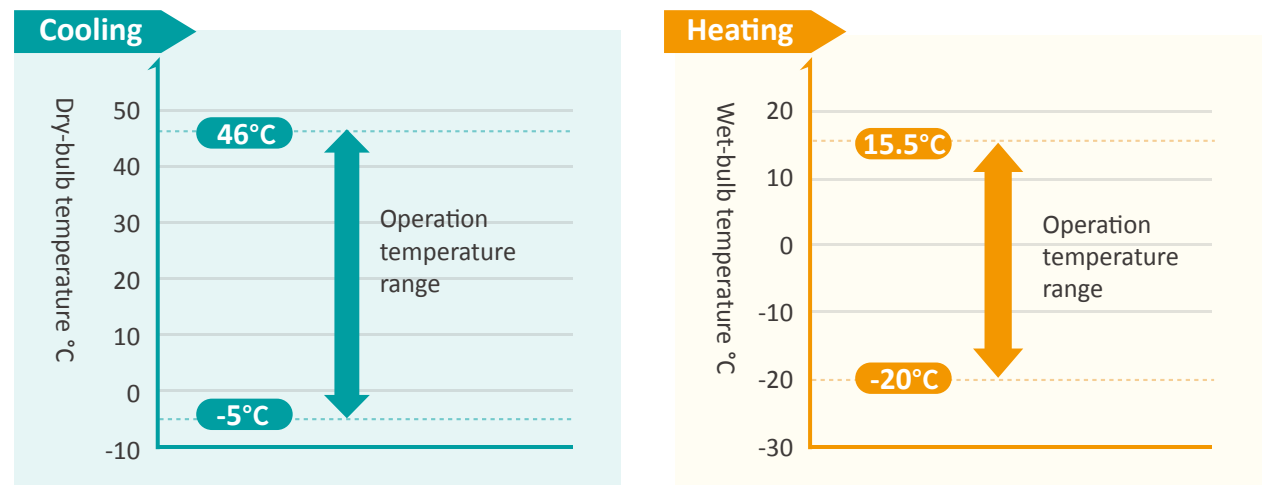
New refrigerant piping connection with flare-nut branch pipe

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.



Wide Operation Range

The highest operation temperature reaches to 46°C* in cooling mode, and lowest operation temperature reaches to -20°C* in heating mode.



*Note: The double fan achieves the lowest operation temperature that can reach to -20°C in heating mode and single fan is -15°C.

Hi-FLEXi H Series Heat Pump



HP			3HP	4HP	5HP	4HP	5HP	6HP	8HP	10HP	12HP	
Model			AVW-28HJFH	AVW-34HJFH	AVW-43HJFH	AVW-38HJFH	AVW-48HJFH	AVW-54HJFH	AVW-76HFFH	AVW-96HFFH	AVW-114HFFH	
Power Supply			AC 1Φ 220V-240V/60Hz			AC 1Φ 220V/60Hz			AC 3Φ 208/230V/60Hz			
Cooling	Capacity	kW	8.0	10.0	12.5	11.2	14.0	15.5	22.4	28.0	33.5	
		kBtu/h	27.3	34.1	42.7	38.2	47.8	52.9	76.5	95.6	114.0	
Heating	Capacity	kW	9.5	11.2	14.0	12.5	16.0	18.0	25.0	31.5	37.5	
		kBtu/h	32.4	38.2	47.8	42.7	54.6	61.4	85.3	107.5	128.0	
	COP	kW/kW	4.01	3.72	3.37	4.50	4.31	4.03	4.24	4.04	3.79	
	MCA	A	19.5	27.5	31.5	-	-	-	26.0	34.0	44.0	
	MOP	A	40.0	40.0	50.0	-	-	-	35.0	45.0	60.0	
Ventilation	Air Flow Rate	m ³ /min	46.5	69.0	78.0	90.0	90.0	100.0	121.0	150.0	163.0	
	Fan Quantity		1	1	1	-	-	-	2	2	2	
Sound	Sound Pressure Level	dB(A)	50/52	53/55	54/57	50/52	52/54	53/55	53/55	56/58	56/61	
Compressor	Type	-	Rotary Compressor					Scroll Compressor				
	Compressor Quantity	PC	1									
Refrigerant	Type	-	R410A									
	Pre-charged Amount	kg	2.5	2.8	2.8	-	-	-	5.0	5.5	6.5	
Weight	Net Weight	kg	65	73	78	93	95	97	162	168	171	
	Gross Weight	kg	72	81	86	111	111	111	185	188	189	
Dimensions	External (H*W*D)	mm	800×950×370			1380×950×370			1650×1100×390			
	Packing(H*W*D)	mm	930×1020×460			1520×1025×460			1806×1185×530			
Cabinet Color	-	Ivory White										
Ref. Piping	Gas	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2	Φ25.4	
		in.	5/8	5/8	5/8	5/8	5/8	5/8	3/4	7/8	1/1	
	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7
		in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2
Connectable Indoor Units	Quantity	PC	5	6	8	9	11	11	10	10	10	
Piping Design	Height Difference Between ODU and IDU	m	20.0			-			50.0/40.0 ²			
	Height Difference Between IDUs	m	2.0	2.0	3.5	-			15.0			
	Max. Piping Length	m	25.0	25.0	50.0	-			100.0			
Operation Range	Cooling	°C DB	-			-5~46			-			
	Heating	°C WB	-15~15.5			-20~15.5			-20~15.5			

Notes: 3-6HP
 1. Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 26.7°C DB 19.4°C WB, Outdoor air inlet temperature: 35°C DB. Heating conditions: Indoor air inlet temperature: 21.1°C DB, Outdoor air inlet temperature: 8.3°C DB 6.1°C WB. Low Temp. Heating Conditions: Outdoor air inlet temperature: -8.3°C, WB -9.4°C.
 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.
 3. ** the data is tested under AHRI Standard connecting with non-ducted IDUs.

Notes: 8/10/12HP
 4. The cooling and heating performances are the values when combined with our specified indoor units. Cooling operation conditions: Indoor air inlet temperature: 27°C DB/19°C WB, Outdoor air inlet temperature: 35°C DB, Piping length: 7.5m piping lit: 0m. Heating operation conditions: Indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, Piping length: 7.5m piping lit: 0m.
 5. The sound pressure is based on the following conditions: 1 meter from the unit service cover surface, and 1.5m from floor level. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
 6. ** when the outdoor unit is above: 50m when the outdoor unit is below: 40m.

Functions & Accessories



INDOOR UNIT

4-way Cassette Type

Mini 4-way Cassette Type

Ceiling Ducted Type

1-way Cassette Type

2-way Cassette Type

Console Type

Wall Mounted Type

Ceiling & Floor Type

Floor Concealed Type

All Fresh Air Indoor Unit

Heat Recovery Ventilator

AHU Connection Kit

Installation & Maintenance



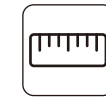
1200m condensate pump

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



Self-Diagnosis

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



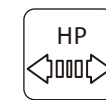
Compact size

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



Easy cleaning

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



Large capacity range

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

Special Function



Auto restart

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



Low temperature cooling

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



Wireless receiver

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



Humidity sensor (optional)

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



Hi-Motion (optional)

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

Basic Function



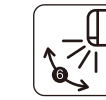
Remote control

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



Silent operation

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



Adjustable louver's position

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



Swing louver

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



Fan speed

Selectable fan speeds are available.



Auto fan speed

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

Air Quality



Fresh air introduction

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



Standard filter included

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



Optional filter

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

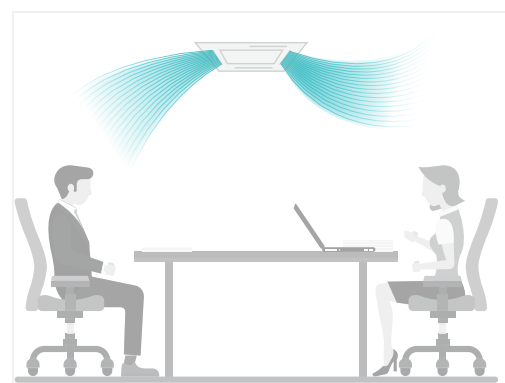
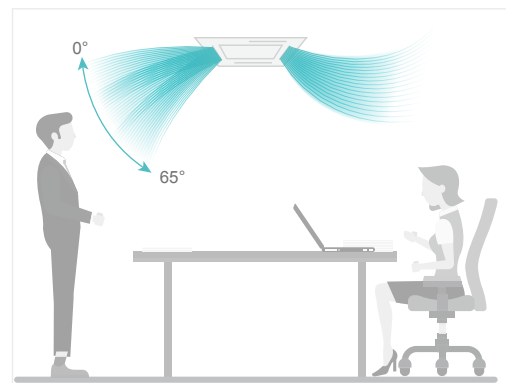
4-way Cassette Type

Mini 4-way Cassette Type



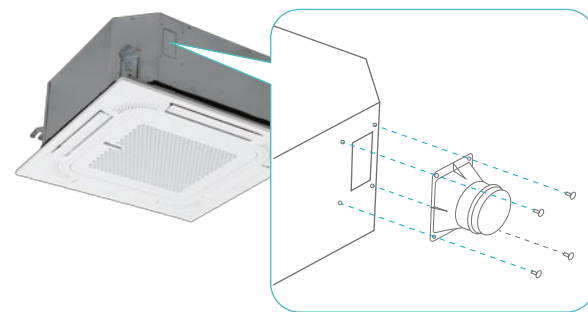
Independent louvers control

All 4 louvers on the cassette units can be adjusted independently in any 8 positions from 0° (closed) to 65° for more precise airflow direction, maximizing user's comfort and adapting to various space layouts.



Fresh air intake

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



Humidity sensor(optional)

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

4-way Cassette Type

Mini 4-way Cassette Type



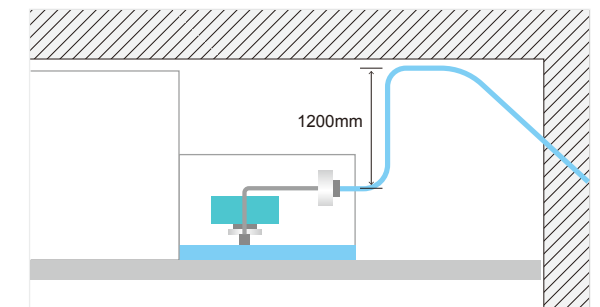
Motion sensor (optional)

The indoor unit will automatically set through Motion Sensor.

NOTE: These functions can be achieved by the wired controllers: HYPE-J01H, HYPE-VA01, HYPE-VB01, HYPE-M01H

Standard equipped drain pump

Standard equipped drain pump with the maximum drainage height up to 1200mm.



Breeze mode

Spare from feeling blown away from direct air gushing towards your face or body with the new cutting edge breezy air technology. Keep indoors cool or warm from the miniature openings on the edges.



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/60Hz												
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0	
		Btu/h	9,600	12,300	15,400	19,100	21,500	24,200	27,300	30,700	38,200	47,800	54,600	
	Heating	kW	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0	
		Btu/h	9,900	13,600	17,100	21,500	24,200	27,300	30,700	34,100	42,700	54,600	61,400	
Power Input	Cooling	W	14	24	24	34	54	64	54	54	124	124	124	
	Heating	W	14	24	24	34	54	64	54	54	124	124	124	
Sound Pressure		dB(A)	30/28/28/ 27/26/26	32/29/29/ 28/27/26	33/31/29/ 29/27/26	34/31/30/ 28/28/26	36/33/32/ 31/29/28	36/33/32/ 31/29/28	37/36/35/ 33/31/30	37/36/35/ 33/31/30	42/40/38/ 36/34/33	46/44/40/ 38/36/34	46/44/41/ 40/38/36	
Airflow Rate		L/s	250/223/ 200/180/ 167/147	283/233/ 213/197/ 180/152	350/267/ 248/227/ 212/187	367/292/ 265/258/ 227/208	433/333/ 305/283/ 252/217	450/350/ 318/300/ 272/245	450/367/ 338/312/ 280/257	450/383/ 345/327/ 295/268	617/500/ 457/413/ 373/327	617/558/ 493/453/ 403/373	617/567/ 512/482/ 427/397	
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	
		in.	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	
in.		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 (HxWxD)	mm	238x840x840						288x840x840					
	Packaging (HxWxD)	mm	292x945x945						342x945x945					
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		
	Panel Colour	-	Neutral White											
	Body Dimensions (HxWxD)	mm	47x950x950											
	Packaging Dimensions (HxWxD)	mm	105x1014x1014											
	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 the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB, 19.0°CWB
Outdoor Air Inlet Temperature: 35°C DB
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB.
Outdoor Air Inlet Temperature: 7°C DB, 6°C 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.

Mini 4-Way Cassette Type



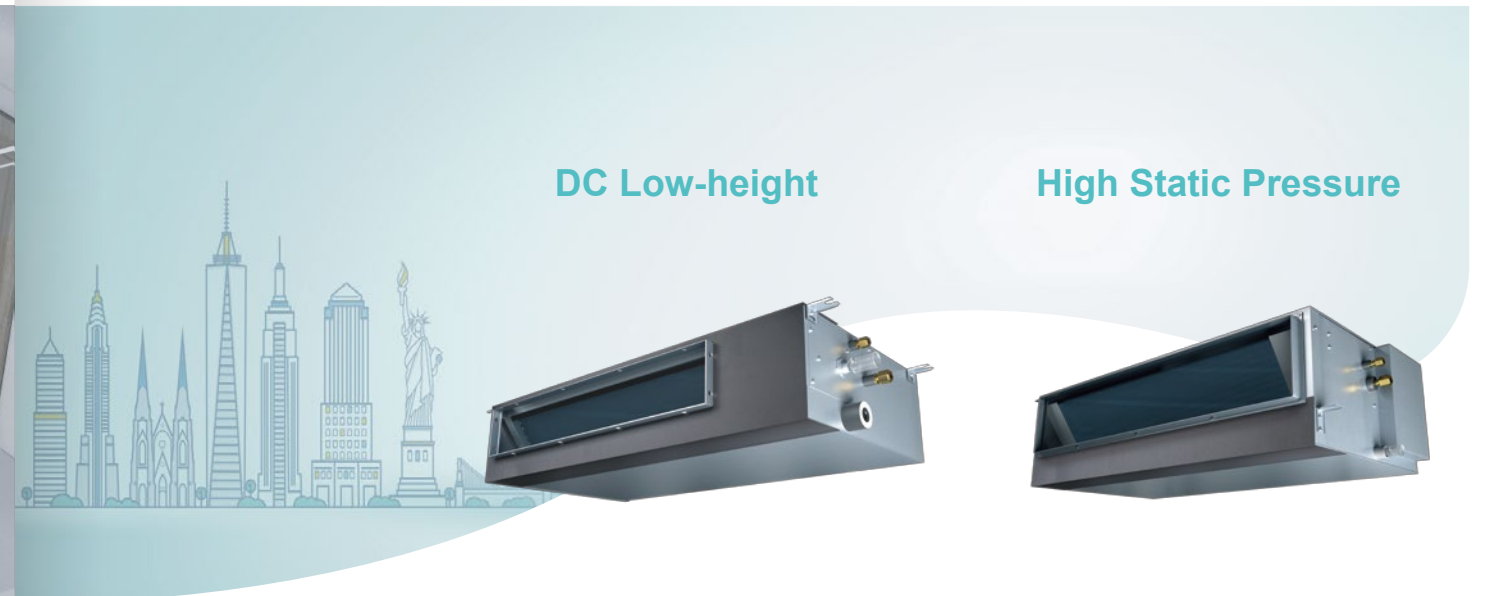
Model		AVC-05HJFA	AVC-07HJFA	AVC-09HJFA	AVC-12HJFA	AVC-15HJFA	AVC-17HJFA	AVC-19HJFA	
Power Supply		AC 1Φ 220~240V/60Hz							
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.0	5.6
		Btu/h	5,100	7,480	9,520	12,240	15,300	17,000	19,040
	Heating	kW	2.0	2.5	3.3	4.2	5.0	5.6	6.3
		Btu/h	6,800	8,500	11,220	14,280	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		L/s	119/108/103/93	119/108/103/93	131/119/108/97	136/119/108/97	156/146/118/111	183/158/146/118	208/181/156/133
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
		in.	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
in.		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 (HxWxD)	mm	215x570x570						
	Packaging (HxWxD)	mm	292x668x730						
Panel	Model	-	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	
	Panel Colour	-	Neutral White						
	Body Dimensions (HxWxD)	mm	37x620x620						
	Packaging Dimensions (HxWxD)	mm	115x680x690						
	Net Weight	kg	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	

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, 19.0°CWB
Outdoor Air Inlet Temperature: 35°C DB
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB.
Outdoor Air Inlet Temperature: 7°C DB, 6°C 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.

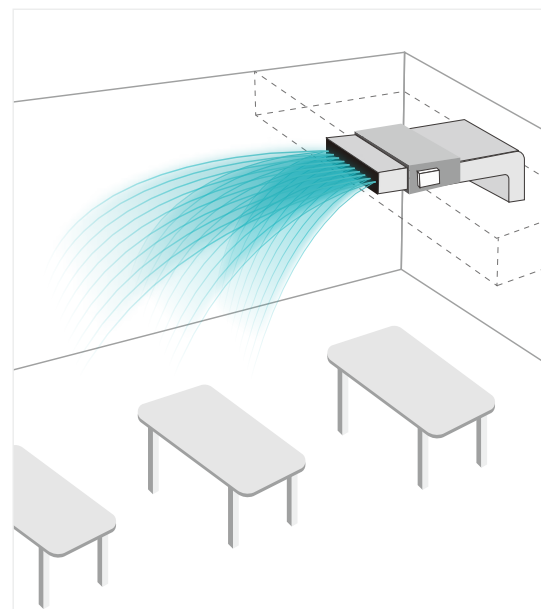
Ceiling Ducted Type



Adjustable static pressure

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

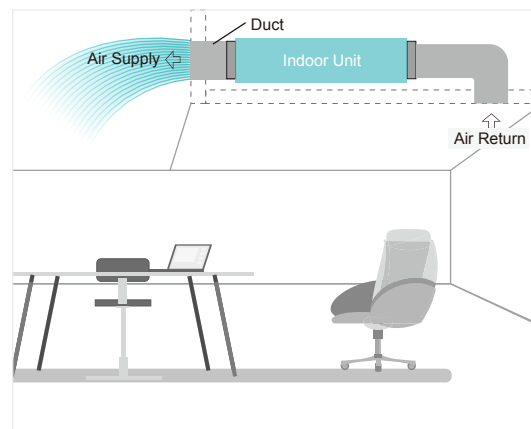
NOTE: DC Low-height and High Static Pressure have different static pressure choices. Please refer to the specifications for more detail information.



Flexible installation

Free air introduction and air filter keep the indoor air clean.

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



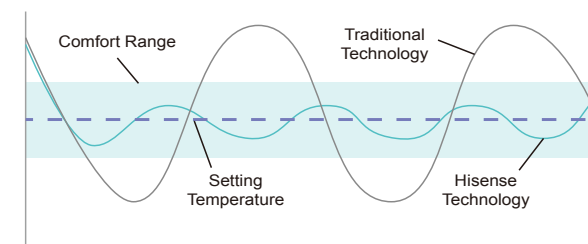
3D-airflow

The 3D louvers on the panel offers wide air flow coverage to keep every corners of your room cool or warm in any seasons of the year.

NOTE: 3D-Airflow Panel is an optional accessory only for DC Low-height. For more information please refer to Hisense engineers.

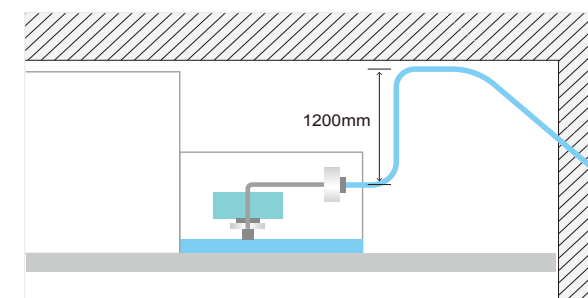
Enjoy comfortable

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



Standard equipped drain pump

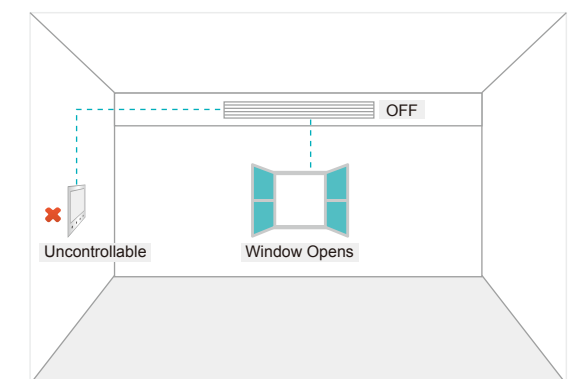
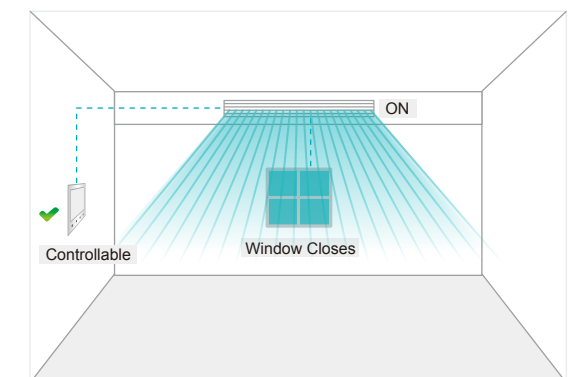
Standard equipped drain pump with the maximum drainage height up to 1200mm.



NOTE: Only for DC Low-height

Various device connection

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



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/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	
Capacity	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	
		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		
		L/s	117/108/102/95/88/80	117/108/102/95/88/80	150/135/122/112/98/87	150/135/122/112/98/87	200/180/157/135/113/92	200/180/157/135/113/92	225/208/187/167/147/128	300/268/238/205/175/145	300/268/238/205/175/145	
External Static Pressure		Pa	10(0-10-30)									
Piping	Connection Type		Flare-nut Connection(With Flare Nuts)									
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53
		in.	1/4	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	Φ 15.88
in.		1/2	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	
Condensate Drain		mm	O.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×W×D)		192×700×447				192×910×447			192×1180×447		
	Packaging (H×W×D)		270×925×574				270×1136×574			270×1406×574		

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

High Static Pressure



Model		AVD-07 H3FCH	AVD-09 H3FCH	AVD-12 H3FCH	AVD-15 H3FCH	AVD-19 H3FCH	AVD-22 H3FCH	AVD-24 H3FCH	AVD-27 H3FCH	AVD-30 H3FCH	AVD-38 H3FCH	AVD-48 H3FCH	AVD-54 X2SEH*2	AVD-76U X2SFH*2	AVD-96U X2SFH*2		
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	
		Btu/h	7500	9600	12300	15400	19100	21600	24200	27400	30800	38000	48000	54500	76500	95600	
Capacity	Heating	kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0	25	31.5	
		Btu/h	8500	10900	13700	17100	21600	24200	27400	30800	34200	42500	54500	61500	21500	27100	
Power Input	Cooling	kW	0.10(0.13*)	0.10(0.13*)	0.13(0.16*)	0.13(0.16*)	0.14(0.21*)	0.19(0.24*)	0.19(0.24*)	0.25(0.34*)	0.25(0.34*)	0.25(0.34*)	0.34(0.45*)	0.43(0.59*)	1.03	1.28	
		kW	0.10(0.13*)	0.10(0.13*)	0.13(0.16*)	0.13(0.16*)	0.14(0.21*)	0.19(0.24*)	0.19(0.24*)	0.25(0.34*)	0.25(0.34*)	0.25(0.34*)	0.34(0.45*)	0.43(0.59*)	1.03	1.28	
Sound Pressure	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	
		m³/min	9/7/6	9/7/6	12/10/8.5	12/10/8.5	15/13/10	19/14/10	19/14/10	28/24/19.5	28/24/19.5	28/24/19.5	35.5/29/24	39/31/24	220	220	
External Static Pressure		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)	-	-	
Piping	Connection Type		Flare-nut Connection(with Flare Nuts)												Brazeing		
	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	O.D.32														
Weight	Net Weight	kg	25(24*)	25(24*)	25(24*)	25(24*)	30(31*)	30(31*)	30(31*)	37(38*)	37(38*)	45(44*)	45(44*)	53(50*)	53(50*)	94	106
	Gross Weight	kg	31(30*)	31(30*)	31(30*)	31(30*)	36(38*)	37(38*)	37(38*)	52(52*)	52(52*)	52(52*)	61(59*)	61(59*)	106	111	
Dimensions	External	H	mm	270	270	270	270	270	270	270	270	300	300	300	300	470	470
		W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	1100+75	1100+75	1100+75	1400+75	1400+75	1060	1250
		D	mm	720	720	720	720	720	720	720	720	720	800	800	800	800	1120
	Packaging	H	mm	385	385	385	385	385	385	385	385	415	415	415	415	1345	1345
		W	mm	895	895	895	895	1140	1140	1140	1345	1345	1345	1640	1640	1276	1466
		D	mm	870	870	870	870	870	870	870	870	870	950	950	950	950	546

NOTES:
 1.The nominal cooling capacity and heating capacity are based on the following conditions:
 Cooling Operation Conditions
 Indoor Air Inlet Temperature: 27°C DB, 19.0°C WB
 Outdoor Air Inlet Temperature: 35°C DB
 Piping Length: 7.5 Meters Piping Lift: 0 Meter
 Heating Operation Conditions
 Indoor Air Inlet Temperature: 20°C DB.
 Outdoor Air Inlet Temperature: 7°C DB, 6°C 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-way Cassette Type

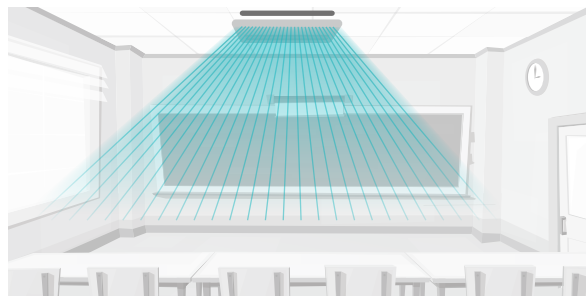


1-way Cassette Type



Convenient installation

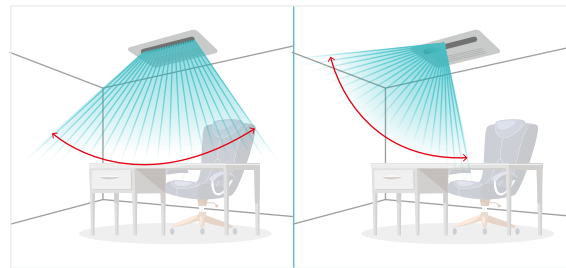
Customers can choose the installation method according to different situation. The concise fashion elements style is suitable for renewal projects and un-decorated shopping malls or classrooms.



Wider 3D-airflow range

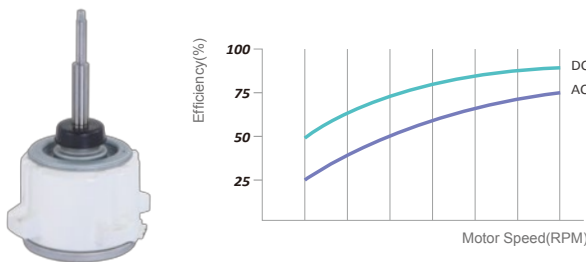
Broad air deflector design realizes broad air supply range. The wind direction can be adjusted according to the need thus it can make the customers feel more comfortable.

NOTE: This function can be achieved by the wired controller: HYXE-J01H, HYXE-VA01, HYXM-VB01, HYXE-M01H



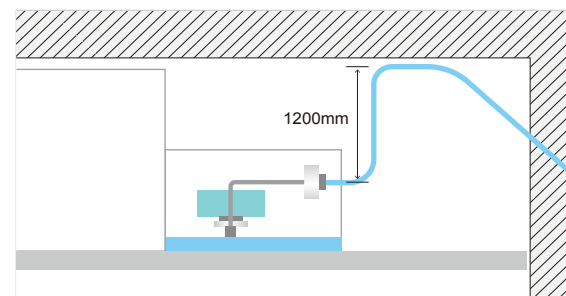
Efficiency DC motor

Adoption of the efficient DC motor and the optimized duct design assure the smooth air flow.



Standard equipped drain pump

Standard equipped drain pump with the maximum drainage height up to 1200mm.



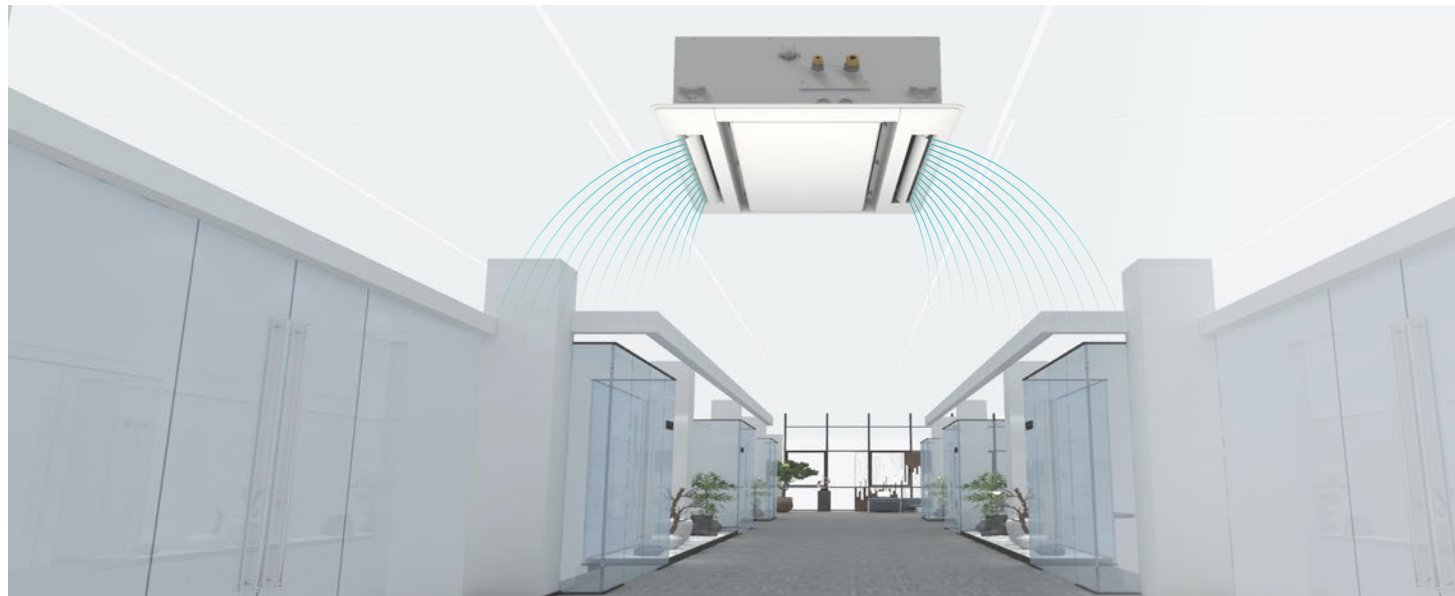
Model		AVY-07UXSJA	AVY-09UXSJA	AVY-12UXSJA	AVY-14UXSJA	AVY-18UXSJA	AVY-24UXSJA	
Power Supply		AC 1Φ 220~240V/60Hz						
Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.6	7.1
		Btu/h	7,500	9,600	12,300	13,600	19,100	24,200
Power Input	Heating	kW	2.5	3.2	4.0	4.5	6.3	8.0
		Btu/h	8,500	10,900	13,600	15,400	21,500	27,300
Power Input	Cooling	W	14	14	24	34	34	74
	Heating	W	14	24	34	44	44	94
Sound Pressure		dB(A)	33/32/31/30/29/28	35/34/32/31/29/28	40/36/35/33/30/29	40/36/35/33/30/29	41/39/36/35/33/31	48/46/43/40/37/33
Airflow Rate		L/s	103/98/93/ 85/80/77	110/103/93/ 85/80/77	138/122/113/ 103/93/85	138/122/113/ 103/93/85	202/165/147/ 137/130/110	260/210/187/ 165/140/118
Piping	Connection Type	-	Flare-nut Connection(With Flare Nuts)					
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
		in.	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
in.		1/2	1/2	1/2	1/2	5/8	5/8	
Condensate Drain		mm	O.D.32					
Weight	Net Weight	kg	19	19	20	20	24	24
	Gross Weight	kg	23	23	24	24	29	29
Dimensions	External (HxWxD)	mm	192x910x470			192x1180x470		
	Packaging (HxWxD)	mm	268x1136x574			268x1406x574		
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 (HxWxD)	mm	55x1100x550			55x1370x550		
	Packaging Dimensions (HxWxD)	mm	130x1160x610			130x1430x610		
	Net Weight	kg	5	5	5	5	6	6
	Gross Weight	kg	8	8	8	8	10	10

NOTES:

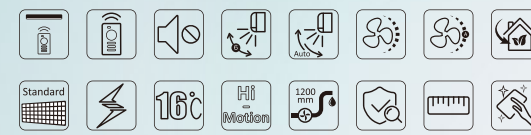
1. The nominal cooling capacity is based on the following conditions:
 Indoor Air Inlet Temperature: 27°C DB , 19.0°C WB
 Outdoor Air Inlet Temperature: 35°C DB
 Piping Length: 7.5 Meters Piping Lift: 0 Meter

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

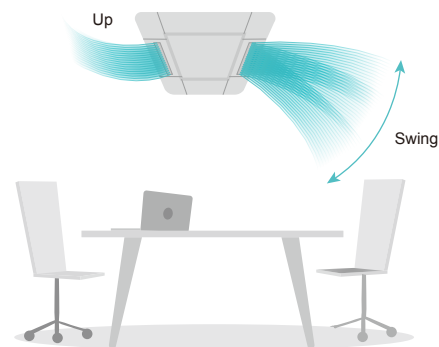


2-way Cassette Type



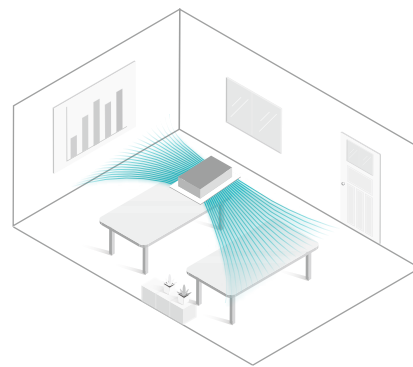
2-way individual louver

The newly equipped individual louver setting function allows the angles of the 2 louvers to be adjusted individually.



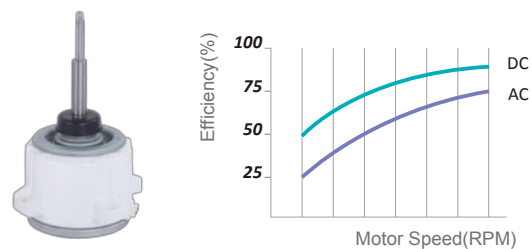
Space saving

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 cassettes due to its compact design having 1.42m.



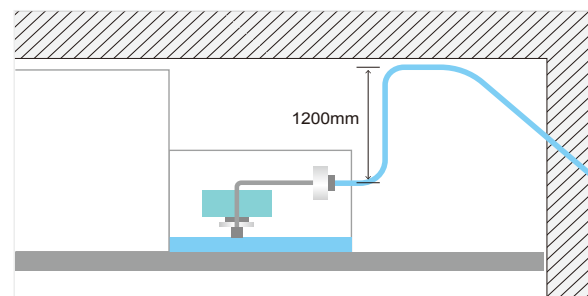
Efficiency DC motor

Adoption of the efficient DC motor and the optimized duct design assure the smooth air flow.



Standard equipped drain pump

Standard equipped drain pump with the maximum drainage height up to 1200mm.



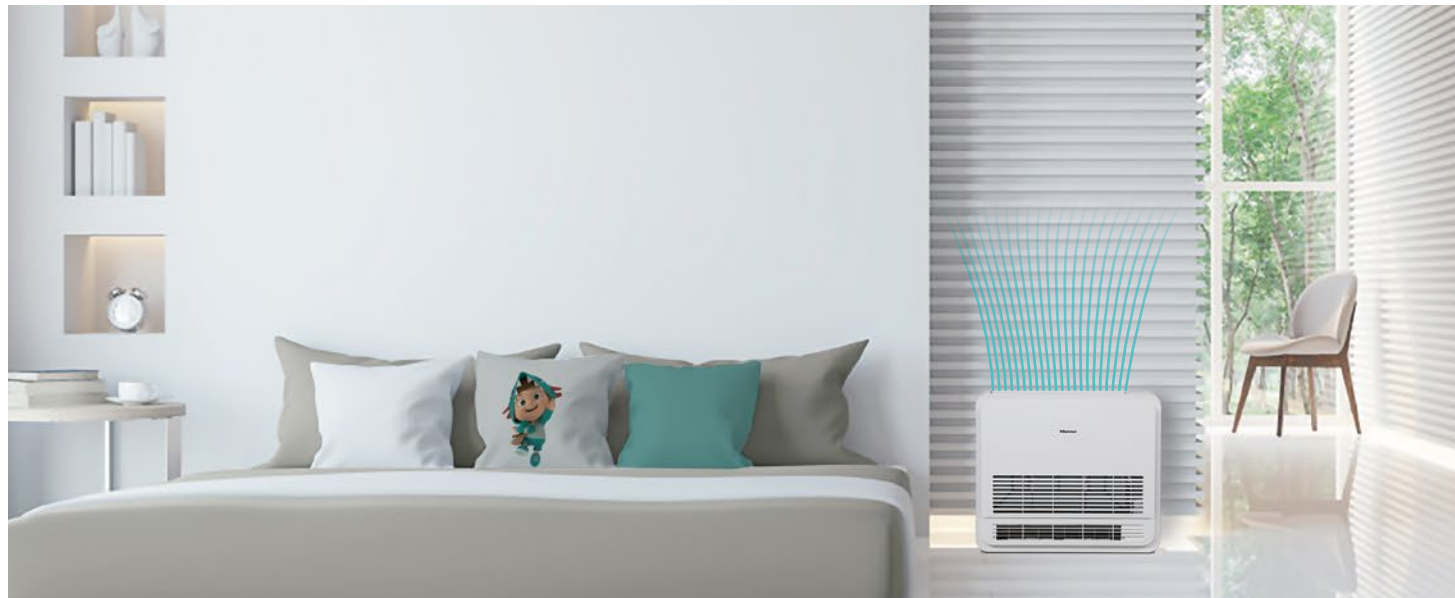
Model		AVL-07 UXSJA	AVL-09 UXSJA	AVL-12 UXSJA	AVL-14 UXSJA	AVL-18 UXSJA	AVL-24 UXSJA	AVL-27 UXSJA	AVL-30 UXSJA	AVL-38 UXSJA	AVL-48 UXSJA	AVL-54 UXSJA		
Power Supply		AC 1Φ 220~240V/60Hz												
Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.6	7.1	8.4	9.0	11.2	14.0	16.0	
		Btu/h	7,500	9,600	12,300	14,700	19,100	24,200	28,700	30,700	38,200	47,800	54,600	
Power Input	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	
Sound Pressure	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	
Airflow Rate		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	47/44/42/37	49/46/42/37	46/44/40/38	48/45/42/38	49/46/43/40	
		L/s	167/142/120/100	183/157/137/110	200/175/148/125	250/220/192/165	283/248/217/187	317/273/238/205	350/307/260/210	367/322/272/218	500/440/385/330	583/513/448/352	617/542/473/402	
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	
		in.	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	
in.		1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8		
Condensate Drain	mm	O.D.32												
Weight	Net Weight	kg	22	22	22	24	24	24	24	24	39	39	39	
	Gross Weight	kg	28	28	28	30	30	30	30	30	47	47	47	
Dimensions	External (HxWxD)	mm	298x860x630									298x1420x630		
	Packaging (HxWxD)	mm	350x1070x710									350x1630x710		
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 (HxWxD)	mm	30x1100x710									30x1660x710		
	Packaging Dimensions (HxWxD)	mm	160x1170x740									160x1710x740		
	Net Weight	kg	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.5	10.5	10.5	
	Gross Weight	kg	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	17.8	17.8	17.8	

NOTES:

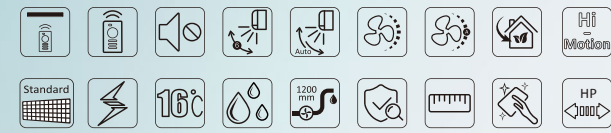
1. The nominal cooling capacity is based on the following conditions:
 Indoor Air Inlet Temperature: 27°C DB, 19.0°C WB
 Outdoor Air Inlet Temperature: 35°C DB
 Piping Length: 7.5 Meters Piping Lift: 0 Meter.

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



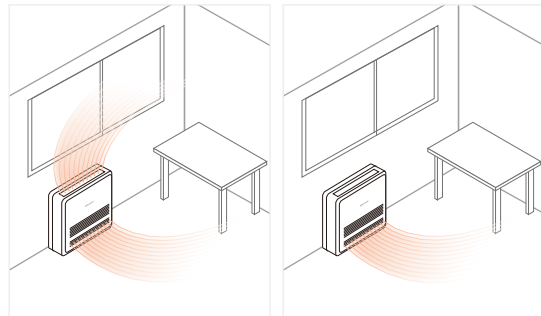
Console Type



3D air supply/return

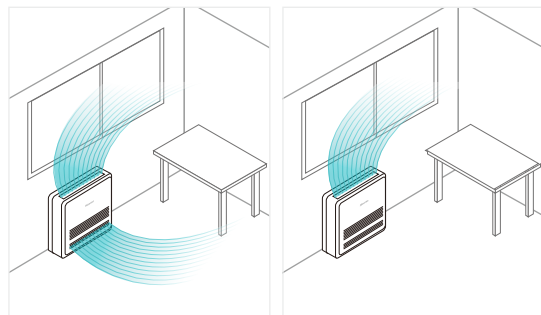
Heat Mode

When the temperature of air return exceeds 20°C, the upper air deflector will close automatically. When the temperature of air return is below 18°C, the upper air deflector will open automatically.



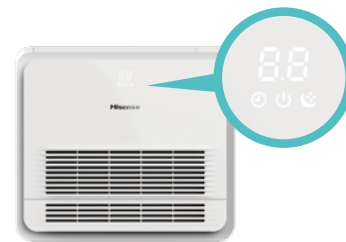
Cool Mode

After running one hour in cooling mode, the air deflector below will close automatically.



Stylish aesthetics

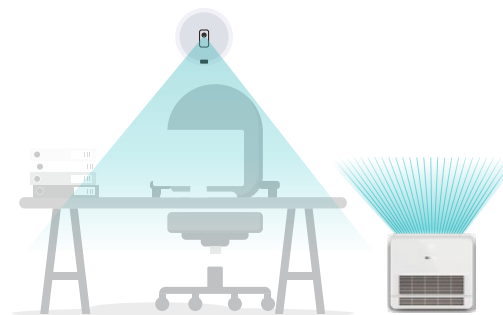
With LED and temperature display, console unit is an upgraded stylish air-conditioning option to the customers. Be suitable for any residential or commercial applications needed a unit near the floor for effective heating during the winter and cooling during summer.



Connected with Hi-Motion

The unit can be controlled automatically through the Hi-Motion (optional).

NOTE: This function can be achieved by the wired controller: HXYE-J01H, HXYM-VB01

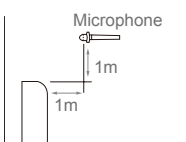


Model		AVK-05HJFCAA	AVK-07HJFCAA	AVK-09HJFCAA	AVK-12HJFCAA	AVK-15HJFCAA	AVK-17HJFCAA	
Power Supply		AC 1Φ 220V~240V/60Hz						
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.0
		Btu/h	5,100	7,500	9,600	12,300	15,300	17,100
	Heating	kW	2.0	2.5	3.3	4.2	5.0	5.6
		Btu/h	6,800	8,500	11,200	14,300	17,000	19,100
Power Input	Cooling	W	10	11	12	14	18	23
	Heating	W	10	11	12	14	18	23
Sound Pressure	dB(A)	32/30/29/28/26/24	34/32/31/29/27/26	36/35/32/31/29/27	39/36/34/31/29/27	41/39/37/35/33/32	44/43/41/39/37/36	
Airflow Rate	L/s	100/95/88/ 85/78/75	123/117/107/ 100/93/88	133/123/117/ 107/100/93	137/127/113/ 103/95/88	150/142/130/ 120/110/107	168/162/150/ 142/132/122	
		Panel Colour: 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
		in.	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
in.		1/2	1/2	1/2	1/2	1/2	1/2	
Condensate Drain	mm	O.D.32						
Weight	Net Weight	kg	16.1	16.1	16.1	17.4	17.4	17.4
	Gross Weight	kg	20.6	21.1	21.1	21.5	21.5	21.5
Dimensions	External (H×W×D)	mm	630×700×225					
	Packaging (H×W×D)	mm	725×790×315					

NOTES:

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

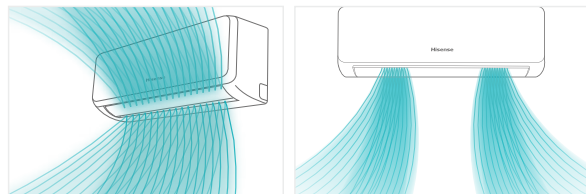


Wall Mounted Type



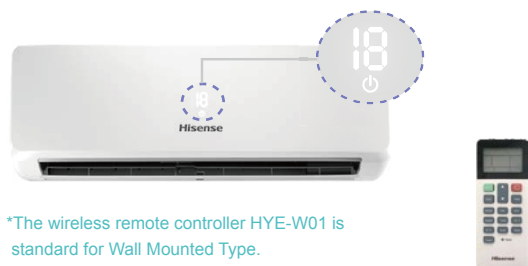
Wider 3D-airflow range

Broad air deflector design realizes broad air supply range. The wind direction can be adjusted according to the need thus it can make the customers feel more comfortable.



Sleek smooth design

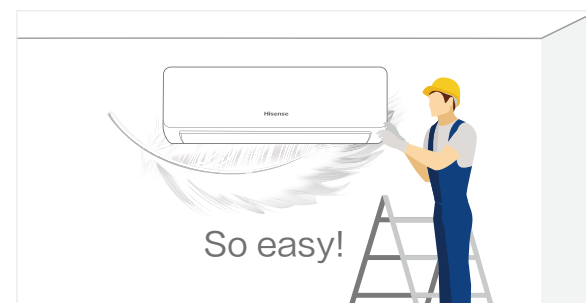
Shiny White cover panel of the unit has an elegant aesthetic. The unit also offers LED temperature display hidden under the smooth panel and eases cleaning routine without compromising user's convenience while setting the temperature.



*The wireless remote controller HYE-W01 is standard for Wall Mounted Type.

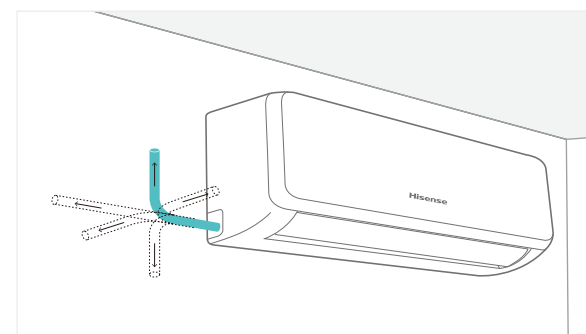
Lighter to simplify installation

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



Flexible piping connection

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



Wall Mounted Type



Model		AVS-07H3FSTD	AVS-09H3FSTD	AVS-12H3FSTD	AVS-14H3FSTD	AVS-18H3FSTD	AVS-22H3FSTD	AVS-24H3FSTD		
Power Supply		AC1Ø 208/230V/60Hz								
Capacity	Cooling	kW	2.2	2.8	3.6	4.0	5.6	6.3	7.1	
		Btu/h	7,500	9,600	12,300	13,700	19,100	21,500	24,200	
	Heating	kW	2.5	3.3	4.0	4.5	6.3	7.1	8.0	
		Btu/h	8,500	11,300	13,700	15,300	21,500	24,200	27,300	
Power Input	Cooling	W	55	55	65	65	65	74	83	
		Heating	W	55	55	65	65	75	83	91
MCA		A	0.70	0.70	0.72	0.72	0.97	1.02	1.07	
MOP		A	15	15	15	15	15	15	15	
Sound Pressure		dB(A)	39/34/32/28	39/34/32/28	41/39/32/28	41/39/32/28	41/37/34/30	44/41/36/31	46/43/38/33	
Airflow Rate		m ³ /min	11/9.8/8.7/7.7	11/9.8/8.7/7.7	12/11/8.7/7.7	12/11/8.7/7.7	14.9/13/11.2/10.4	16.8/14.9/11.9/10.4	18.7/16.4/13.4/10.8	
Piping	Connection Type		Flare-Nut Connection (with Flare Nuts)							
	Liquid	mm	Ø6.35				Ø9.53			
	Gas	mm	Ø12.7				Ø15.88			
Condensate Drain		VP 16								
Weight	Net Weight	kg	13.5				16.0			
	Gross Weight	kg	17.0				20.0			
Dimensions	External (HxWxD)	mm	315x960x230				315x1,120x230			
	Packaging (HxWxD)	mm	438x1,073x349				438x1,238x349			
Wireless Remote Controller		HYE-W01								

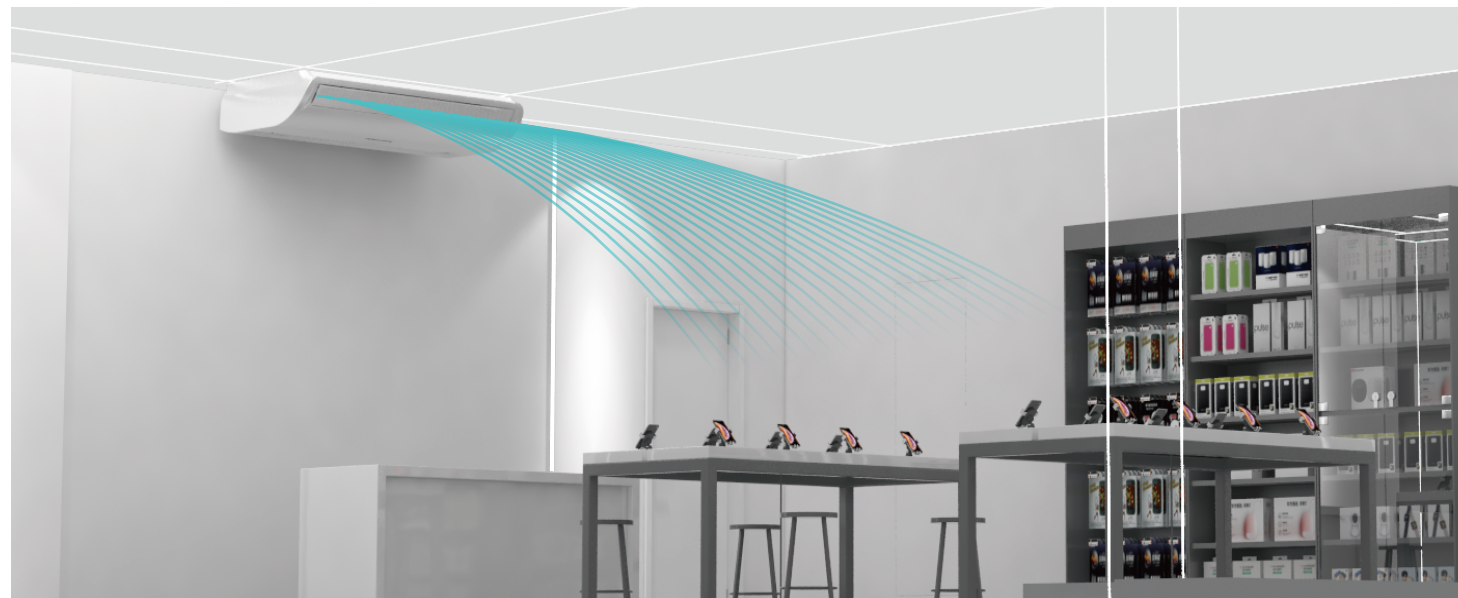
NOTES:

1.The nominal cooling capacity is the combined capacity of the Hisense standard split system.
Cooling Operation Conditions
Indoor Air Inlet Temperature:27°C DB (80°F DB), 19.0°C WB (66°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 (44°F DB), 6°C WB (42°F WB)
Piping Length: 7.5m(24.6ft.), Piping Lit: 0m (0ft.)

2.The sound pressure level is based on following conditions.
0.8m (2.6ft.) beneath the unit and 1m (3.3ft.) in front of the unit.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

3.The above air flow rate and noise level are tested with AC 230V power supply .

Ceiling & Floor Type



Ceiling & Floor Type



Convenient design

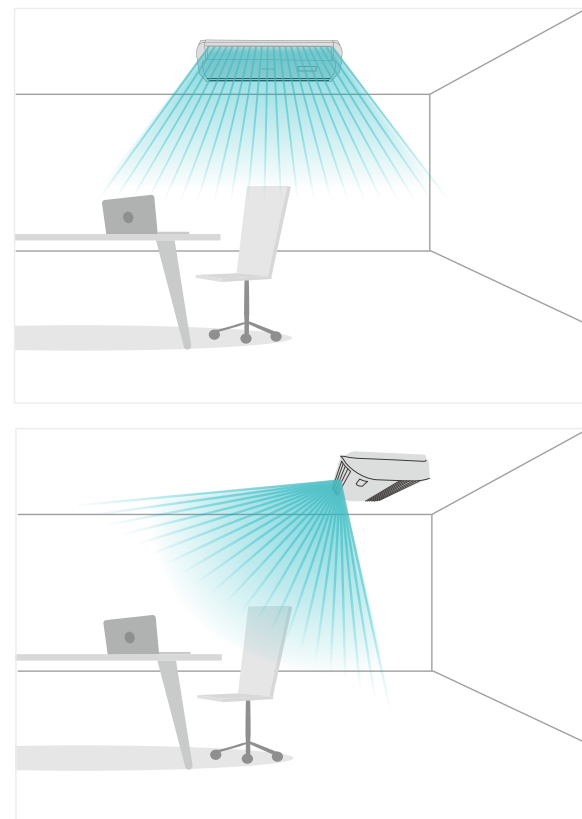
Advanced structure design makes the unit installation, pipe connection, wiring work easier.



Wider 3D-airflow range

Broad air deflector design realizes broad air supply range. The wind direction can be adjusted according to the need thus it can make the customers feel more comfortable.

NOTE: This function can be achieved by the wired controller: HYXE-J01H, HYXE-VA01, HYXM-VB01, HYXE-M01H



Model		AVV-17URSCA	AVV-18URSCA	AVV-22URSCA	AVV-24URSCA	AVV-27URSCB	AVV-30URSCB	AVV-38URSCB	AVV-48URSCC	
Power Supply		AC 1Φ 220V~240V/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		L/s	217/183/150	217/183/150	268/233/188	268/233/188	303/253/203	323/272/222	413/342/272	550/467/383
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		-	-	-	-	-	-	-	-	-
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
		in.	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
in.		5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	
Condensate Drain		mm	O.D.32							
Weight	Net Weight	kg	31	31	32	32	39	40	41	47
	Gross Weight	kg	38	38	39	39	46	47	48	56
Dimensions	External (H×W×D)	mm	230×990×680			230×1285×680			230×1580×680	
	Packaging (H×W×D)	mm	340×1110×830			340×1400×830			340×1690×830	

NOTES:

1.The nominal cooling capacity and heating capacity are based on the following conditions:

Cooling Operation Conditions
 Indoor Air Inlet Temperature: 27°C DB, 19.0°C WB
 Outdoor Air Inlet Temperature: 35°C DB
 Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
 Indoor Air Inlet Temperature: 20°C DB
 Outdoor Air Inlet Temperature: 7°C DB, 6°C WB

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

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

Floor Concealed Type

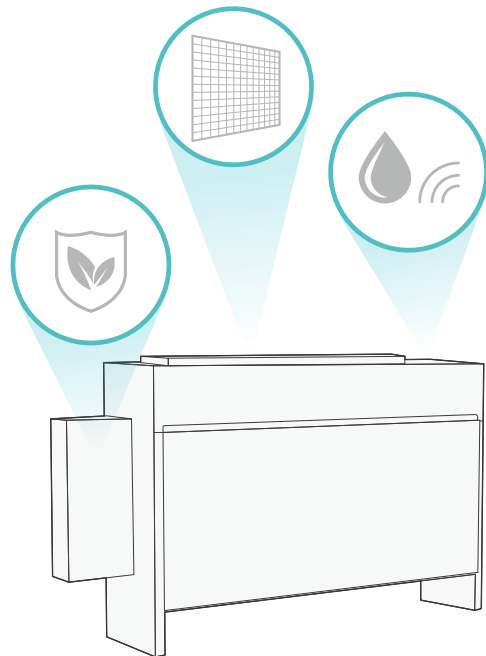


Floor Concealed Type



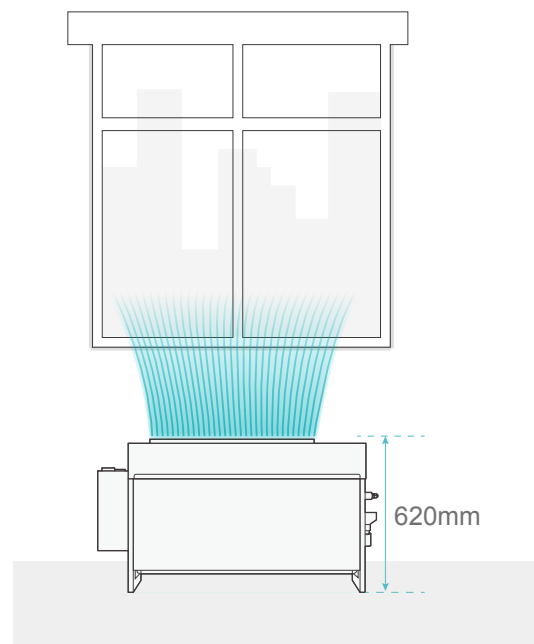
Connectable devices

Third party accessories like air return filters, fresh air introduction and humidity sensors are all connectable to the Floor Concealed Type.



Space saving

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



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		L/s	142/125/106	172/150/133	247/206/175	272/231/197
Piping	Connection Type	-	Flare-nut Connection(With Flare Nuts)			
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53
		in.	1/4	1/4	1/4	3/8
	Gas	mm	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88
		in.	1/2	1/2	5/8	5/8
Condensate Drain	mm	O.D.32				
Weight	Net Weight	kg	18	22	26	27
	Gross Weight	kg	30	31	37	37
Dimensions	External (H×W×D)	mm	620×(948+139)×202	620×(948+139)×202	620×(1218+139)×202	620×(1218+139)×202
	Packaging (H×W×D)	mm	675×1160×240	675×1160×240	675×1430×240	675×1430×240

NOTES:

1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB, 19.0°C WB
Outdoor Air Inlet Temperature: 35°C DB
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB
Outdoor Air Inlet Temperature: 7°C DB, 6°C 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



Create comfortable and healthy indoor environment

Create a comfortable and healthy indoor environment by introducing fresh outdoor air. By heating or cooling fresh outdoor air to keep almost the same temperature as room temperature, fresh ambient air can be adapted and then introduced into indoor room.

Higher external static pressure

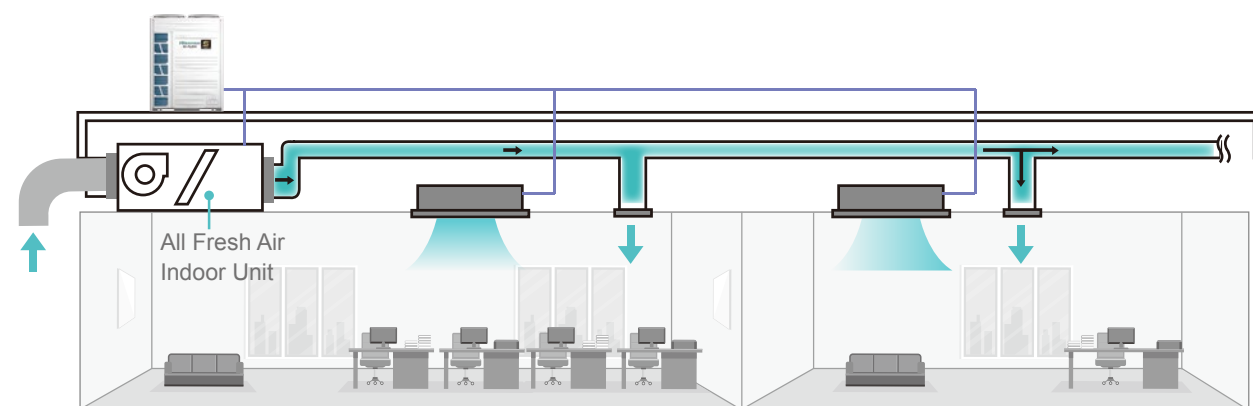
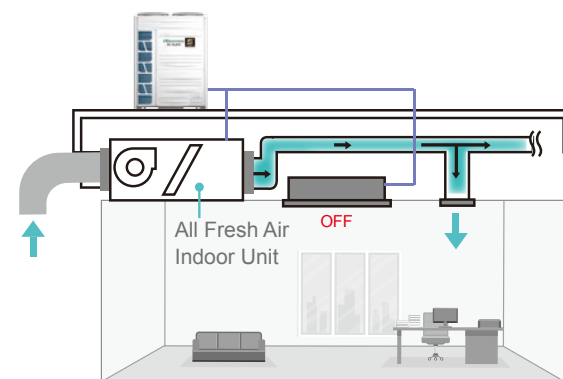
Better installation flexibility at site, longer duct can be connected.

Flexible line-up

All fresh air indoor units are applicable to Hi-FLEXi S Series. General indoor units and all fresh air indoor units can be used together in Hi-FLEXi S Series system. The unit can be interfaced to central control system. It is more easy to design electrical wiring and install.

Saving energy

Besides, after filtered, fresh outdoor air in transition seasons can be drawn to indoor room directly with no need of heating or cooling operation. While fresh outdoor air is introduced, other indoor units don't bear fresh air load.



All Fresh Air Indoor Unit



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

NOTES:

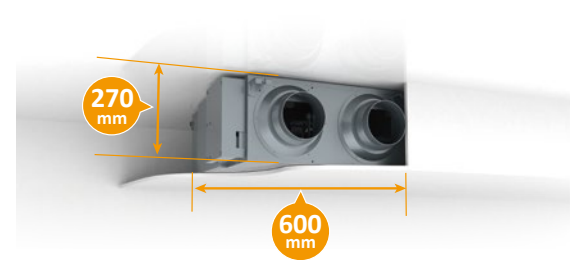
- The nominal cooling capacity and heating capacity are based on following conditions
Cooling operation conditions: 33°C DB, 28°C WB, piping length: 7.5m, piping lift: 0m
Heating operation conditions: 0°C DB, -9°C WB, piping length: 7.5m, piping lift: 0m
(Heating capacity is tested when defrosting is not available.)
- 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 field.
- An air filter with duct collection efficiency more than 50% needs to be attached to the duct system of the suction side at site.
- When the resistance of the filed-supplied duct is small, it may cause abnormal stop, malfunction, spraying water, etc. Due to excessive air flow, the duct, which is to be connected to this unit, shall be installation for dew protection.

- All fresh air indoor unit is for processing fresh air load and not for stabilizing the room temperature. For adjusting the air conditioning load of the room, the additional air conditioner is required.
- This unit shall be connected to Hi-FLEXi S Series. In case of connecting this unit with other indoor units in the same refrigerant cycle, calculate the capacity of this unit as 46.1kbtu/h(30.7kbtu/h), 71.7kbtu/h(47.8kbtu/h), 143.3kbtu/h(95.6kbtu/h).
- When Hi-FLEXi S Series is connected to only with all fresh air indoor unit, the configuration rate is 100% (Recommended).
- Under cooling mode, when outdoor temperature is lower than 20°C, the system will automatically shift to ventilation operation; Under heating mode, when outdoor temperature is higher than 15°C; The system will automatically shift to ventilation operation; In case inlet temperature is below -7°C, all fresh air unit will stop.

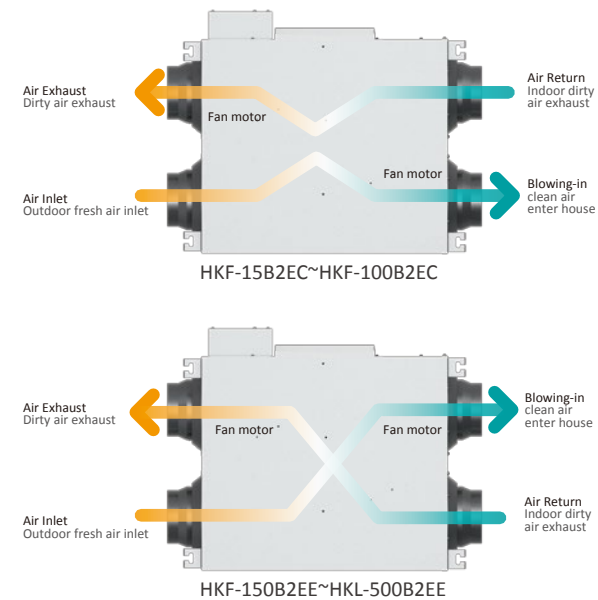
Heat Recovery Ventilator

Compact machine, Convenient installation.

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

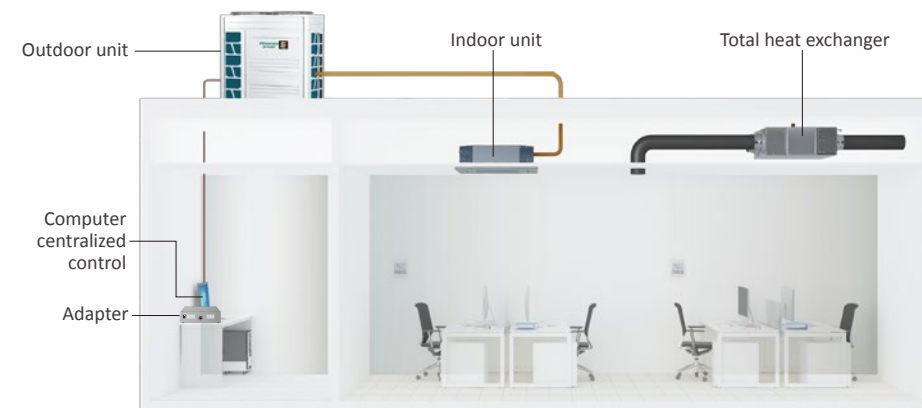


Airflow system



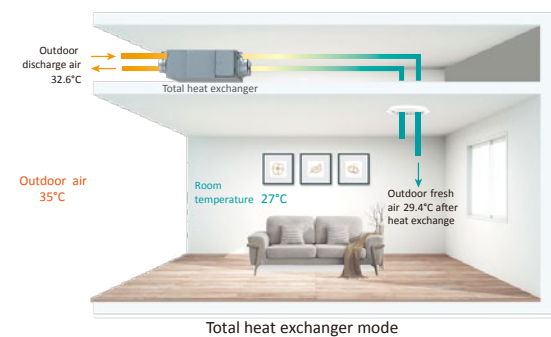
Centralized control system

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



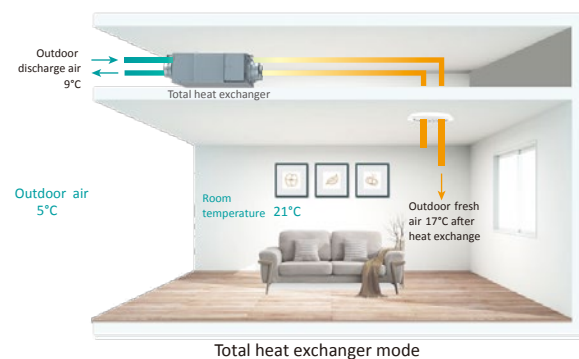
Energy saving analysis

Summer Energy Saving Analysis



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

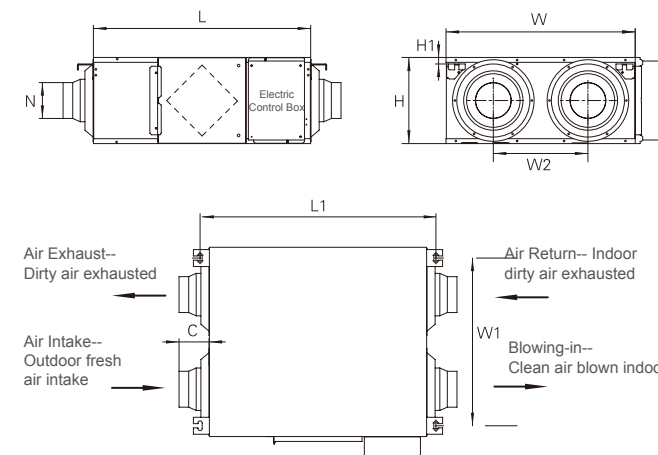
Winter Energy Saving Analysis



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

HKF-15B2EC

Product Dimensions



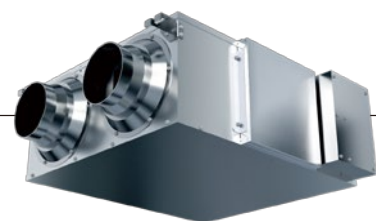
Model	L	L1	W	W1	W2	H	C	N	H1
HKF-15B2E2	665	723	580	514	290	265	90	Φ144	20

Technical Parameters

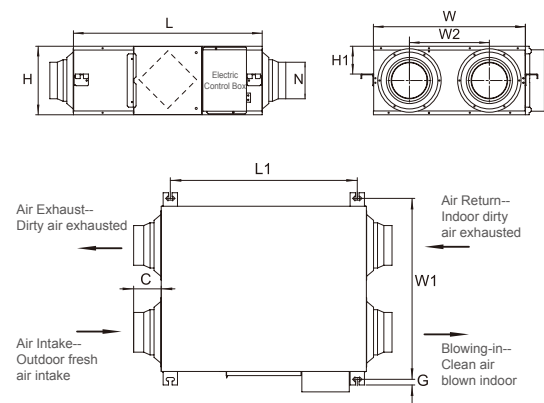
Model	Air Volume m ³ /h			Enthalpy Efficiency (Summer) η _i			Enthalpy Efficiency (Winter) η _i			External Static Pressure Pa			Power Supply	Input Current A			Input Power KW			Noise Level dB(A)			Weight kg
	High	Middle	Low	High	Middle	Low	High	Middle	Low	High	Middle	Low		High	Middle	Low	High	Middle	Low				
HKF-15B2E2	150	150	110	58	58	60	65	65	69	85	70	65	220V/50Hz	0.38	0.36	0.31	2×0.041	2×0.038	2×0.029	30	29	28	25

Heat Recovery Ventilator

HKF-25B2E2~HKF-100B2E2



Product Dimensions



Model	L	L1	W	W1	W2	H	C	G	N	H1
HKF-25B2E2	745	675	600	656	315	270	90	19	Φ144	110
HKF-35B2E2	745	675	805	861	480	270	90	19	Φ144	110
HKF-50B2E2	825	755	905	961	500	270	96	19	Φ194	110
HKF-65B2E2	1115	1050	885	941	430	390	80	19	Φ242	175
HKF-80B2E2	1115	1050	1135	1191	675	390	80	19	Φ242	175
HKF-100B2E2	1115	1050	1135	1191	675	390	80	19	Φ242	175

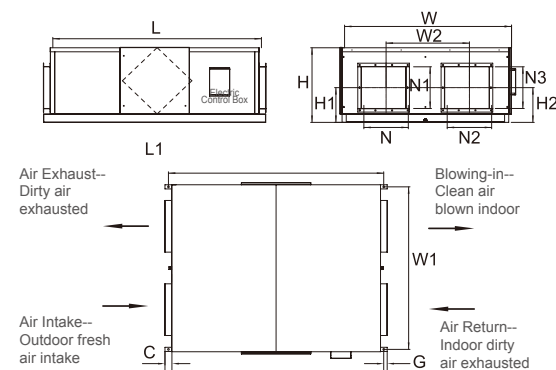
Technical Parameters

Model	Air Volume m³/h			Enthalpy Efficiency (Summer) η ₁			Enthalpy Efficiency (Winter) η ₁			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-25B2E2	250	250	190	57	57	59	63	63	68	85	65	60	AC 1Φ 220V/60Hz	0.66	0.56	0.52	2×0.069	2×0.055	2×0.049	32	31	28	30
HKF-35B2E2	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-50B2E2	500	500	400	56	56	58	63	63	65	130	110	100		1.82	1.71	1.52	2×0.189	2×0.157	2×0.124	39	38	36	40
HKF-65B2E2	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-80B2E2	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-100B2E2	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

HKF-150B2EE~HKF-200B2EE



Product Dimensions



Model	L	L1	W	W1	W2	H	H1
HKF-150B2E9*	1500	1550	1200	1170	600	540	250
HKF-200B2E9*	1550	1600	1400	1370	700	540	250

Model	C	G	N	N1	N2	N3	H2
HKF-150B2E9*	50	25	320	300	320	300	250
HKF-200B2E9*	50	25	320	300	320	300	250

Technical Parameters

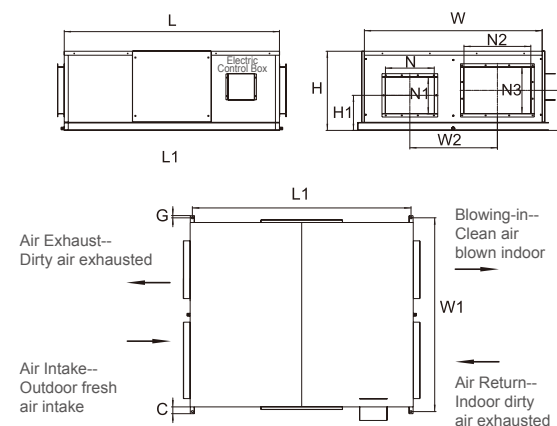
Model	Air Volume m³/h	Enthalpy Efficiency (Summer) η ₁	Enthalpy Efficiency (Winter) η ₁	External Static Pressure Pa	Power Supply	Input Current A	Input Power KW	Noise Level dB(A)	Weight kg
HKF-150B2E9*	1500	55	63	180	AC 3Φ220V/60Hz	2.78	2×0.41	48	151
HKF-200B2E9*	2000	54	62	160	AC 3Φ220V/60Hz	2.89	2×0.52	49	172

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

HKF-250B2EE~HKF-300B2EE



Product Dimensions



Model	L	L1	W	W1	W2	H	H1
HKF-250B2E9*	1610	1580	1330	1400	655	600	265
HKF-300B2E9*	1700	1670	1500	1570	750	640	272

Model	C	G	N	N1	N2	N3	H2
HKF-250B2E9*	50	15	365	275	500	350	300
HKF-300B2E9*	50	15	365	275	500	350	309

Technical Parameters

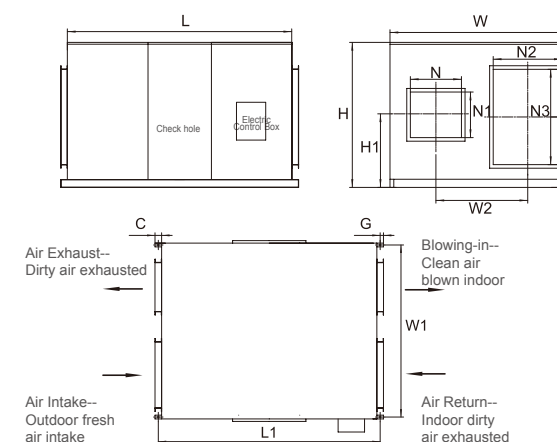
Model	Air Volume m³/h	Enthalpy Efficiency (Summer) η ₁	Enthalpy Efficiency (Winter) η ₁	External Static Pressure Pa	Power Supply	Input Current A	Input Power KW	Noise Level dB(A)	Weight kg
HKF-250B2E9*	2500	54	62	180	AC 3Φ220V/60Hz	3.86	2×0.72	53	185
HKF-300B2E9*	3000	55	63	200	AC 3Φ220V/60Hz	5.12	2×1.16	56	222

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

HKL-400B2EE~HKL-500B2EE



Product Dimensions



Model	L	L1	W	W1	W2	H	H1
HKL-400B2E9*	1625	1675	1330	1300	665	1050	490
HKL-500B2E9*	1625	1675	1330	1300	665	1050	490

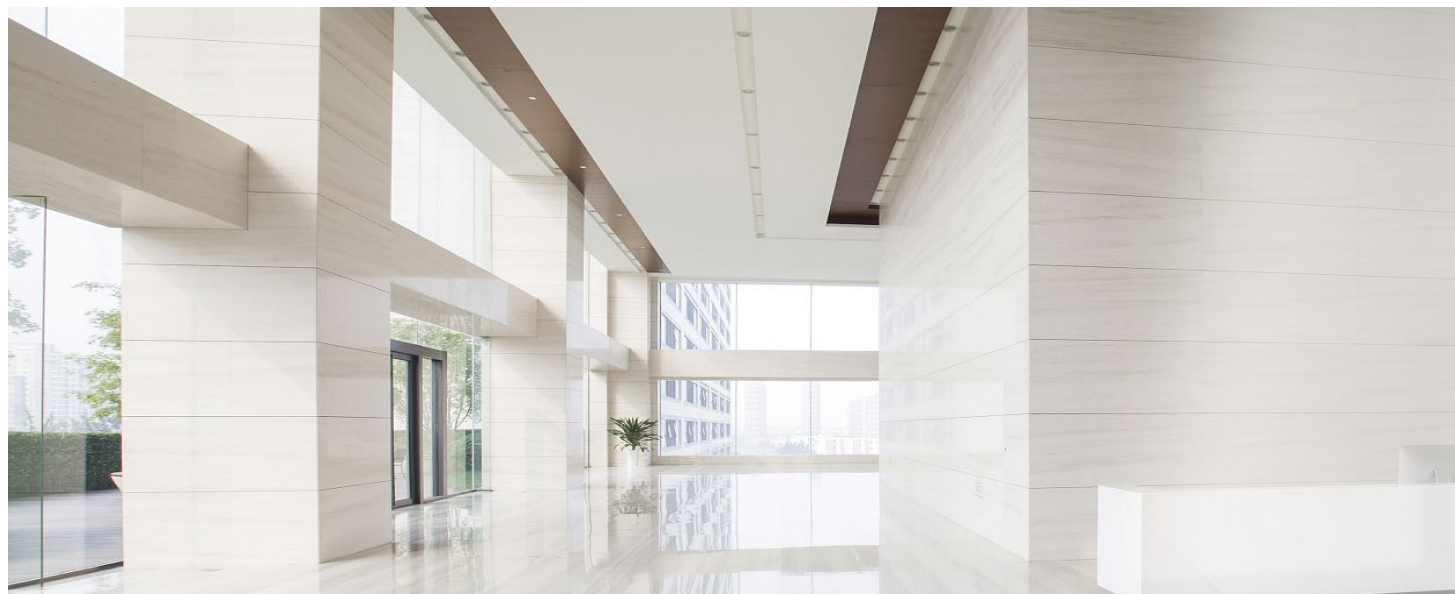
Model	C	G	N	N1	N2	N3	H2
HKL-400B2E9*	50	25	370	330	500	690	475
HKL-500B2E9*	50	25	370	330	500	390	475

Technical Parameters

Model	Air Volume m³/h	Enthalpy Efficiency (Summer) η ₁	Enthalpy Efficiency (Winter) η ₁	External Static Pressure Pa	Power Supply	Input Current A	Input Power KW	Noise Level dB(A)	Weight kg
HKL-400B2E9*	4000	55	63	220	AC 3Φ220V/60Hz	5.89	2×1.71	57	312
HKL-500B2E9*	5000	53	61	240	AC 3Φ220V/60Hz	8.78	2×2.2	58	321

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

AHU Connection Kit



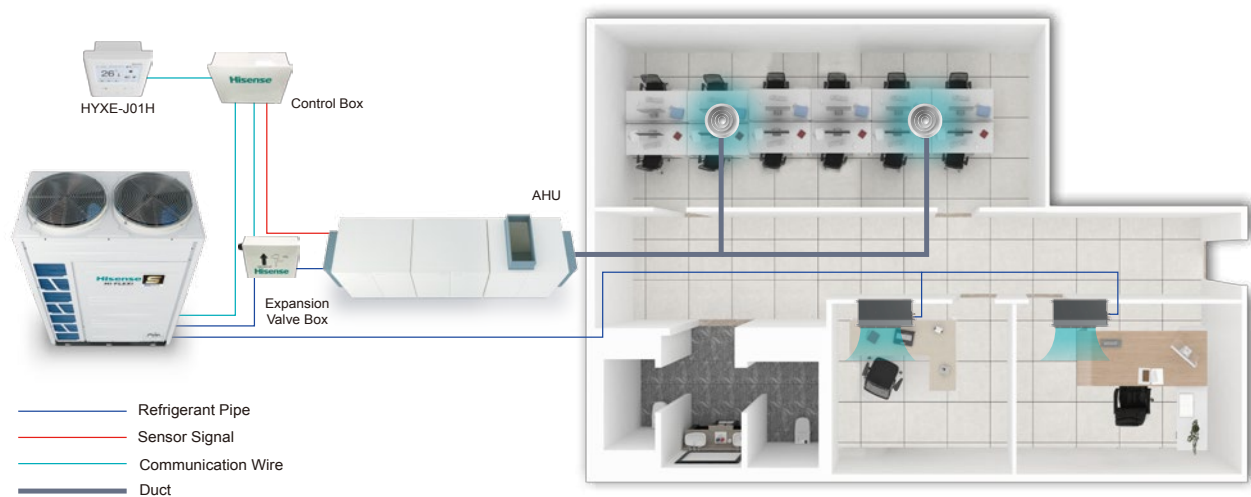
The Hisense AHU-KIT can integrate external heat exchangers of Air-handling units (AHU) into a Hisense VRF system to be used for air conditioning, which can provide more flexible air conditioning solutions and save more cost in the building air conditioning renovation.

Main functions

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

Selection and limitation of heat exchanger of AHU

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



AHU Connection KIT		HZX-2 AE3	HZX-4 AE3	HZX-6 AE3	HZX-10AE3	HZX-20AE3					HZX-30AE3						
Model Power Supply		AC 1Φ 220~240V/60Hz															
Nominal Capacity of AHU	HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	
Allowed Heat Exchanger Capacity (H/M/L)	Cooling	kW	4.0	7.1	11.2	16.0	20.0	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0
		kW	5.0	9.0	14.0	20.0	25.0	30.0	35.0	43.0	48.0	52.0	58.0	65.0	71.0	76.0	82.0
		kW	5.6	11.2	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0	85.0
	Heating	kW	4.5	8.0	12.5	17.9	22.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0
		kW	5.6	10.0	16.0	22.4	28.0	33.5	40.0	47.5	53.0	60.0	66.0	75.0	79.0	86.0	92.0
		kW	7.1	12.5	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0	95.0
Heat Exchanger Volume	Min	dm ³	0.57	1.03	1.92	2.92	3.89	4.76	5.85	6.79	7.57	8.47	9.04	9.50	10.39	11.39	12.36
	Max	dm ³	1.16	2.37	2.92	3.89	4.76	5.91	6.89	8	8.92	9.97	11.13	12.34	12.89	13.86	14.73
Equivalent Indoor Unit Capacity	HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	
Control Box Model		HZX-AEC/1															
Expansion Valve Box Model		HZX-2 AE3/2	HZX-4 AE3/2	HZX-6 AE3/2	HZX-10 AE3/2	HZX-20 AE3/2					HZX-20AE3/2 2set						

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

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

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

Independent Controller



CONTROLLER

Independent Controller

Centralized Controller

Hi-Mit

Hi-Dom III Air Conditioning Management System

Building Management System

HYXE-J01H 120mm×120mm



- ◆ Choose 10 different languages you love.
- ◆ Adjust running light / keyclick
- ◆ Set humidity
- ◆ Control air louvers independently
- ◆ Dehumidification



LED Clear Display

The characteristics of LED dot matrix display is high resolution. Better precision ensures easy to see.



Temperature Sensor

You can choose temperature sensor or default setting(always return air temperature) as standard to set temperature. The temperature sensor will be more precise to ensure customers' comfort.



Connect With Hi-Motion

J01H can connect with Hi-Motion.



Weekly Timer/Holiday Setting

Turn on or off the air-conditioning after pre-setting depend on your different demand.



Backlight

The backlight display, clearly visible during day and night.



Address Setting

Do not dial-up. You can set address to accurately find every IDUs.

HYXE-VA01 120mm×120mm

- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ Error Code Display
- ◆ Air Filter Cleaning Reminding
- ◆ Built-in Temperature Sensor
- ◆ 0.5°C Temperature Setting
- ◆ Dehumidification
- ◆ Optional Setting
- ◆ Check
- ◆ 3D-Airflow Setting
- ◆ One Touch Test Run
- ◆ Max. 16 Indoor Units Can be Connected
- ◆ 72-hour Timer
- ◆ Multiple Speed
- ◆ Backlight Control
- ◆ Swing Louver



Independent Controller

HYXM-VB01 86mm×90mm



Touchscreen

You interact with VB01 using your fingers to tap objects on the touchscreen instead of keyboard. 3.5 inches. It is convenient to operate with bigger screen showing.



Multilingual

12 different languages. Choose the language you love.



Auto-brightness

It can adjust the screen that is synchronous with running light for current light conditions. Dim the screen automatically to reduce light before you need to recharge air-conditioning.



Appearance

The appearance delivers the most accurate streamlined design in the industry. VB01 uses subtly hisense-designed materials that is precisely machined to create structural bands in the side. Aluminum alloy design adopts CNC technology to keep luster.



Intelligent

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

- ◆ Check PCB fault by itself
- ◆ Modify the address of indoor units
- ◆ Restart after sudden power outage
- ◆ Control 6 indoor units
- ◆ Prevent children from touch by mistakes
- ◆ Set weekly timer
- ◆ Equip wireless receiver
- ◆ Dehumidification

HYXE-M01H 86mm×86mm



- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ 72-hour Timer
- ◆ Temperature Setting
- ◆ Check
- ◆ Air Filter Cleaning Reminding
- ◆ Error Code Display
- ◆ Dehumidification
- ◆ Multiple Speed/Swing Louver
- ◆ Backlight
- ◆ Wireless Control Available
- ◆ Max. 6 Indoor Units Can be Connected

Independent Controller

HYXE-S01H 120mm×70mm

- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ Quiet
- ◆ Timer
- ◆ 3 or 6 Speed Control
- ◆ Temperature Setting
- ◆ Air Filter Cleaning Reminding
- ◆ Touch Buttons
- ◆ Check
- ◆ Icon Function Display
- ◆ Optional Setting
- ◆ Test Run
- ◆ Fan Speed/Swing Louver
- ◆ Dehumidification



HYE-W01 145mm×55mm

- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ Temperature Setting
- ◆ 24-hour Timer
- ◆ 6 Fan Speed/Swing Louver
- ◆ Quiet Mode Setting
- ◆ Dehumidification
- ◆ Sleep Mode Setting

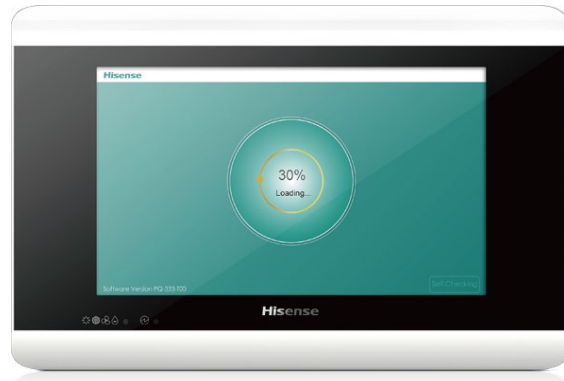


Receiver Kit for Wireless Control (Optional)



Centralized Controller

HYJM-S01H 148mm×220mm



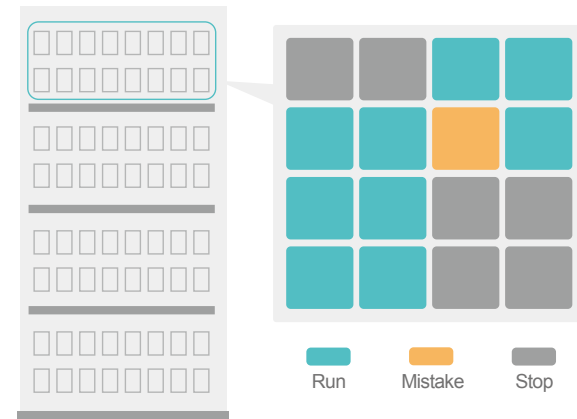
Multilingual

8 different languages. Choose the language you love and click "OK".

中文	English	Русский	Español
Türkçe	Deutsch	Italiano	Nederlands

Group Centralized Control

Register the searched IDUs to the group of the central controller. Max.160 indoor units (64 groups) can be connected. HYJM-S01H can show all running of each group.



External Input/Output Setting

External Input Setting

When there is a fire, you can control all IDUs stopping with only one press in the emergency.



External Output Setting

When the system steps into the full load operation, external safety light will remind you.



Temperature Limitation

You can set higher limit of heating and lower limit of cooling to save energy.

Lock Wired Controller

Decide wired controller running mode and operation limitation.

HYJ-J01H 120mm×120mm

- ◆ Group Control(ON/OFF)
- ◆ Indoor Unit Power OFF Reminder
- ◆ External Input Setting
- ◆ Indoor Units Auto Login in
- ◆ Error Reminder
- ◆ Max. 128 Indoor Units (16 Group) Can be Connected



Centralized Controller

Type	Wired Controller					Wireless Controller
Model	HYXE-J01H	HYXE-VA01	HYXM-VB01	HYXE-M01H	HYXE-S01H	HYE-W01
Picture						
Suit for Indoor Unit	4-Way Cassette	○	○	○	○	○
	Mini 4-Way Cassette	○	○	○	○	×
	DC Low Height	○	○	○	○	○
	Ceiling Duct	○	○	○	○	○
	1-Way Cassette	○	○	○	○	×
	2-Way Cassette	○	○	○	○	×
	Console	○	○	○	○	○
	Wall Mounted	○	○	○	○	○
	Ceiling & Floor	○	○	○	○	○
	Floor Concealed	○	○	○	○	×
	All Fresh Air Indoor Unit	○	○	○	○	○
	Heat Recovery Ventilation	○	○	○	✓	○
3D-Airflow Panel	○	○	○	○	×	
AHU KIT	○	✓	○	○	×	

Type	Receiver Kit				Centralized Controller	ON/OFF
Model	HYRE-V02H	HYRE-T03H	HYRE-Z01	HYRE-X01H	HYJM-S01H	HYJ-J01H
Picture						
Suit for Indoor Unit	4-Way Cassette	×	○	×	○	○
	Mini 4-Way Cassette	×	×	○	○	○
	DC Low Height	○	×	×	×	○
	Ceiling Duct	○	×	×	×	○
	1-Way Cassette	×	×	×	○	○
	2-Way Cassette	○	×	×	×	○
	Console	○	×	×	×	○
	Wall Mounted	○	×	×	×	○
	Ceiling & Floor	○	×	×	×	○
	Floor Concealed	○	×	×	×	○
	All Fresh Air Indoor Unit	○	×	×	×	○
	Heat Recovery Ventilation	×	×	×	×	○
3D-Airflow Panel	○	×	×	×	○	
AHU KIT	×	×	×	×	○	

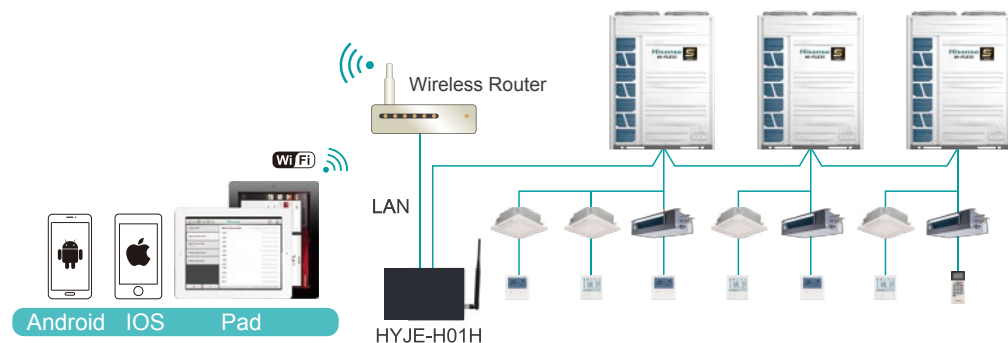
Remarks: ✓ Standard ○ Optional × Incompatible

Hi-Mit



Main Functions

- ◆ ON/OFF Control, Operation Mode, Temperature Setting
- ◆ Operate According to a Schedule
- ◆ Display the Alarm Code
- ◆ 16 Scene Modes
- ◆ Max. 32 Indoor Units Can be Controlled
- ◆ Dimension: 215×137×38 mm
- ◆ Remote Control (if you need the function, please contact with our engineers.)



Adapter Specifications

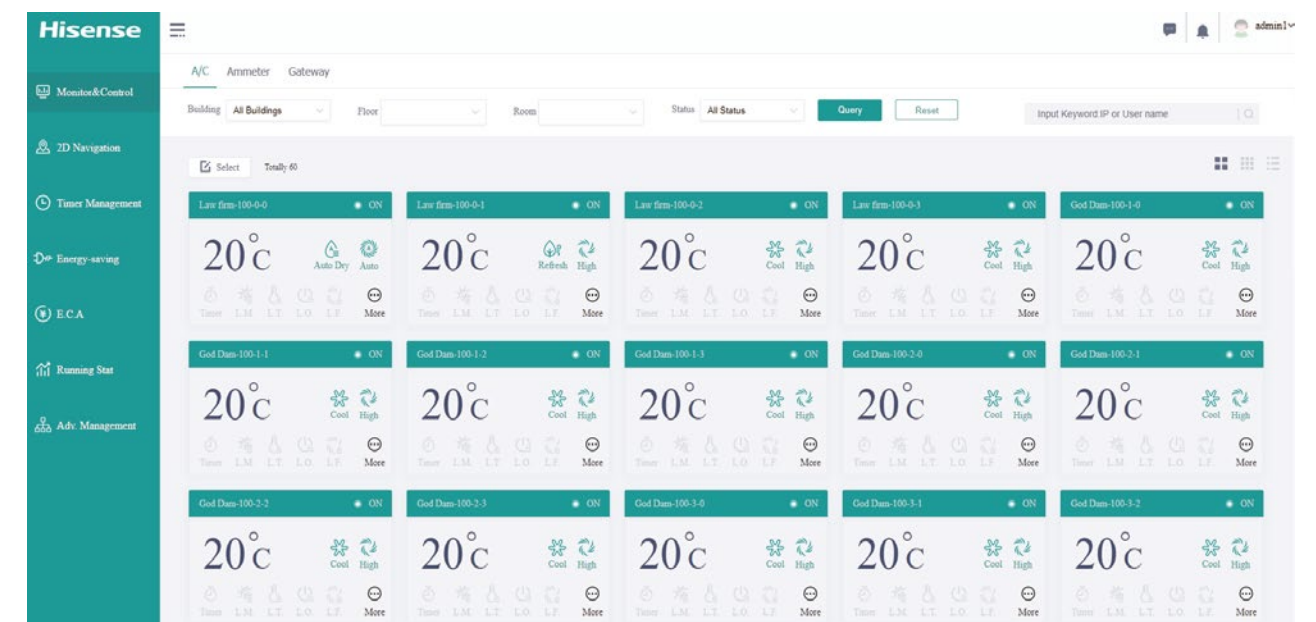
Model Name	Maximum Operating Current	10mA (220 V)
Input Voltage	AC 110~240V 60Hz	

Hi-Dom III Air Conditioning Management System

Centralized Control

Hi-Dom III air conditioning management system adopts communication bus connection; Air conditioning indoor units are connected to the computer through network converter; The system is all controlled automatically by a computer with powerful functions and simple operation. One single computer control system can manage 5120 indoor units.

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

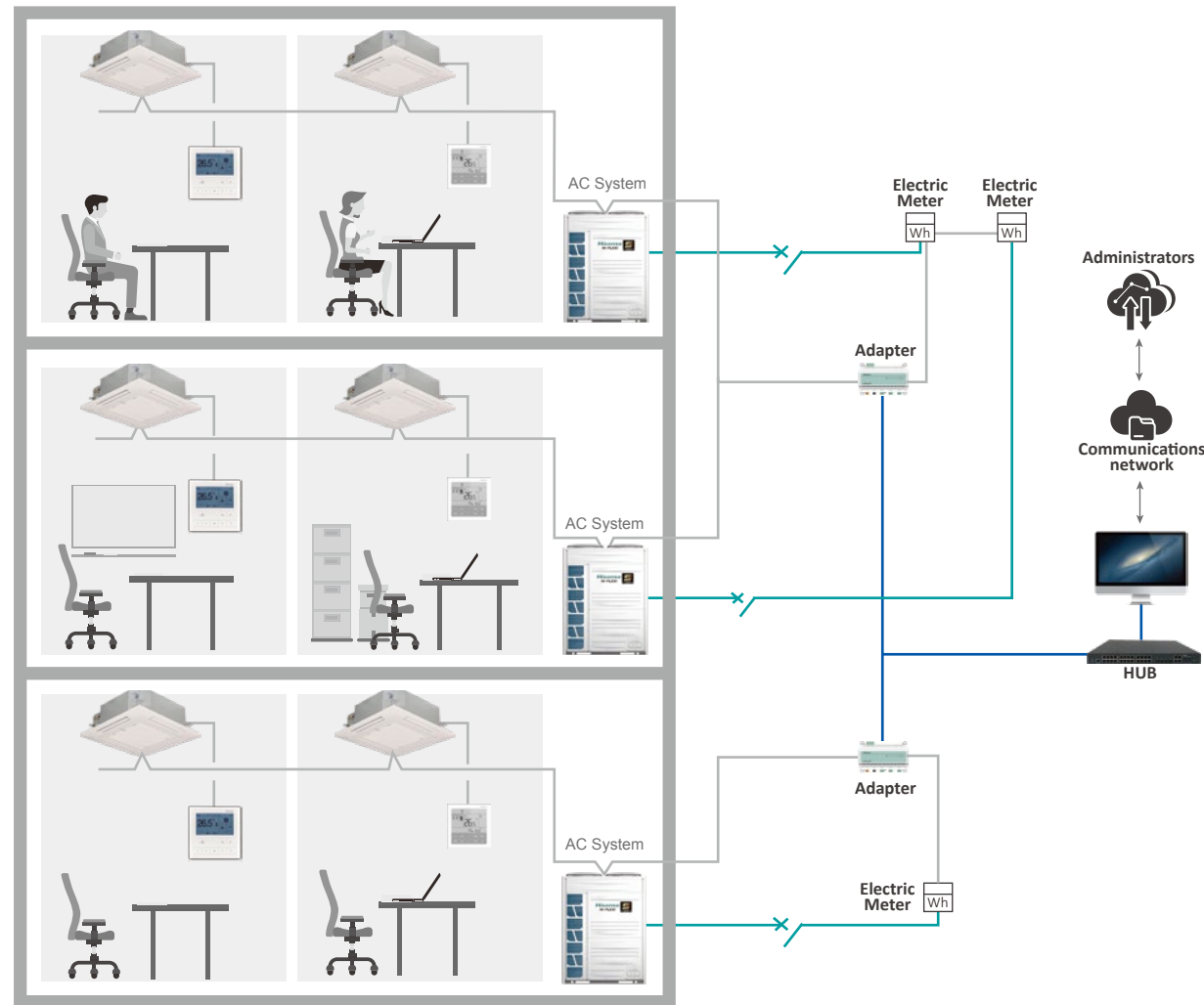


All the indoor units and outdoor units are connected with one adapter comprise one communication BUS system. Max. 160 indoor units can be connected to an adapter. Max. 32 adapters can be controlled by one computer. Max. 5120 indoor units are under control.

Electric Charge Allocation

In accordance with the operation time and capacity output of indoor and outdoor units, the electric charge allocation software allocates the total power consumption to each indoor unit.

Hi-Dom III Air Conditioning Management System



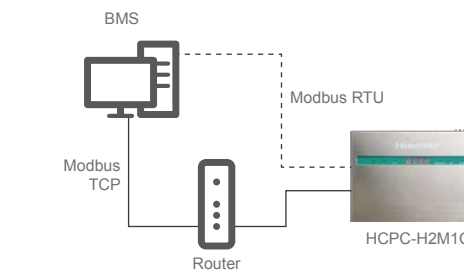
Note: Due to different laws and regulations in different regions, Hisense electrical charge calculation software need to customize processing in project according to the users' requirement.
Only support electric meter —— iEM3150 or iEM3350, which is supplied by Schneider Electric.

Hi-Dom III System Specifications

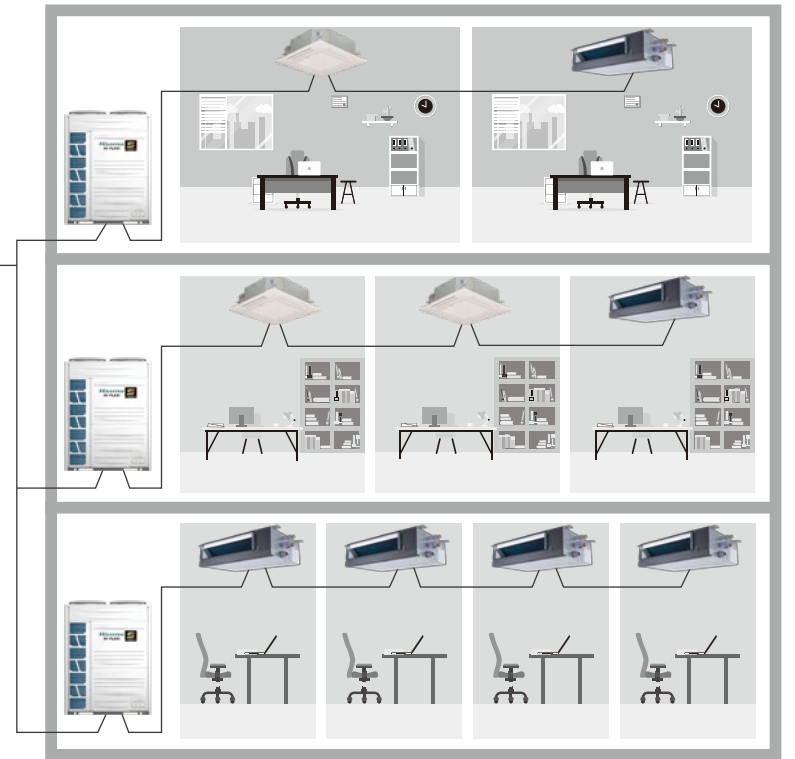
Adapter	Model	Power Supply	Dimension(LxWxD)	Note
	HCCS-H160H2C1YM	12V	180x115.4x64.5mm	With electric charging function
	HCCS-H160H2C1NM	12V	180x115.4x64.5mm	Without electric charging function

Building Management System

MODBUS



- ◆ ON/OFF Setting
- ◆ Temperature Setting
- ◆ Operating Mode Setting
- ◆ Inlet Air Temp. Monitoring
- ◆ Airflow Setting and Monitoring
- ◆ All Units ON/OFF Control
- ◆ Wind Setting and Monitoring
- ◆ Alarm Monitoring and Code Display

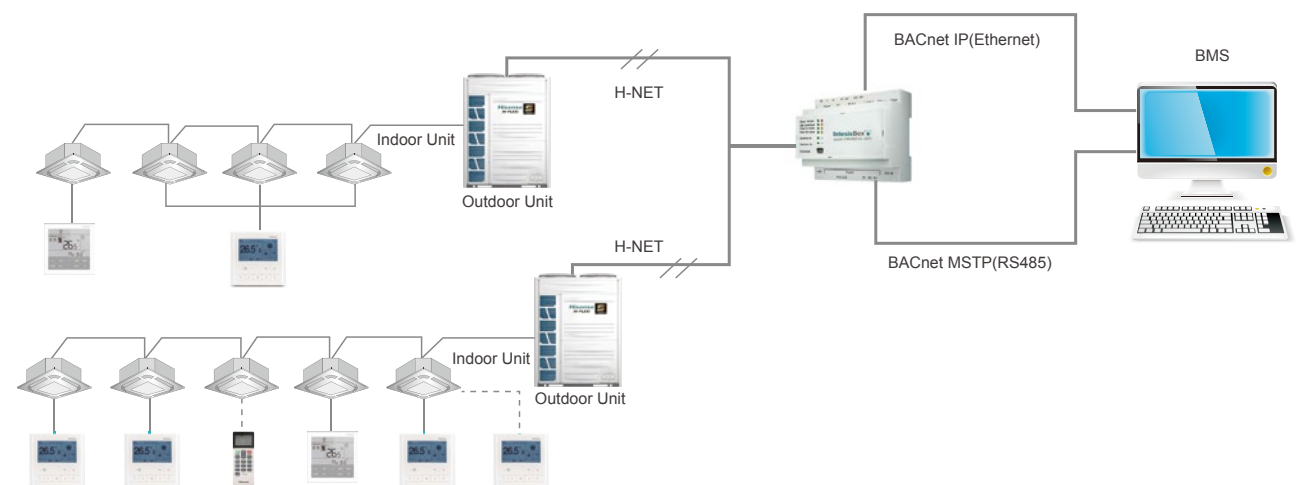


BACnet

Intesis Box BACnet server makes available the Hisense VRF system through independent BACnet objects. It can be applied to third party intelligent control system with BACnet/IP or BACnet MSTP protocol.

Main Functions

- ◆ 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



Building Management System

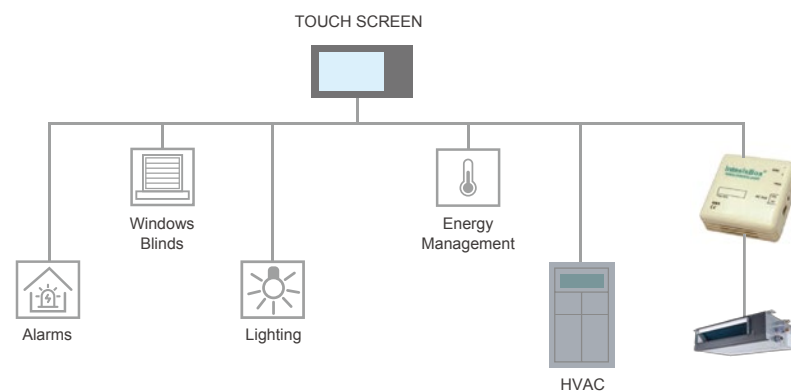
KNX

Intesis Box KNX gateways for air conditioners offers the largest range of gateways in the market for AC system integrations. These solutions offer a huge compatibility to all the KNX manufactures, and can be controlled by a simple KNX thermostat, advanced KNX touch panels or APPs.

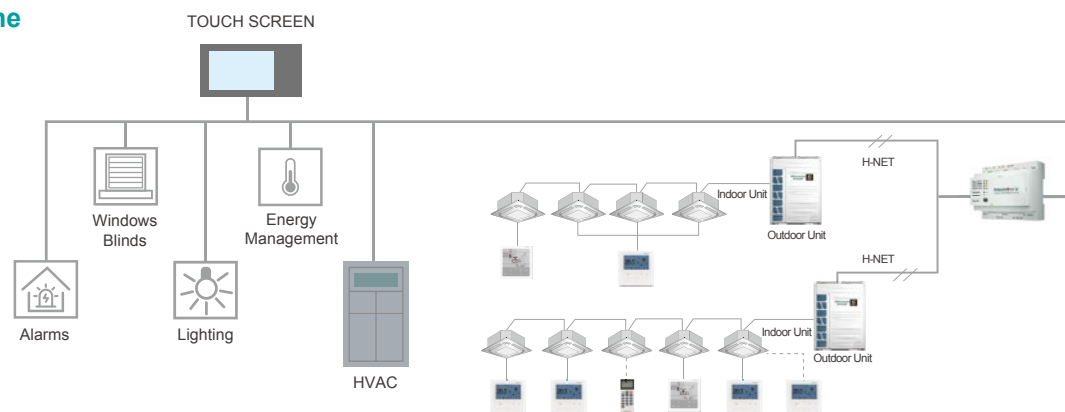
Main Functions

- ◆ Function Prohibition of Controller
- ◆ Operation Control(ON/OFF, Temp. Setting, Mode Control etc.)
- ◆ Indoor Unit Data Monitoring
- ◆ Alarm Monitoring and Code Display
- ◆ Bidirectional Communication and Simultaneous Control from KNX and AC's Controller

One to One



More to One

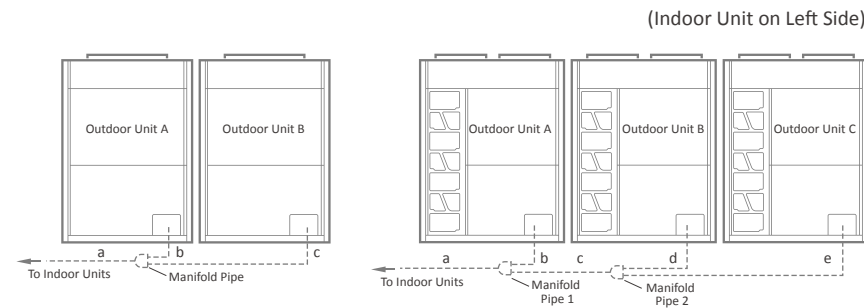


Protocol	Model	H(mm)	W(mm)	D(mm)	Max. Number of Connectable Indoors Units
KNX	HS-RC-KNX-1i	70	70	28	1
KNX	HS-AC-KNX-16	90	88	56	16
KNX	HS-AC-KNX-64	90	88	56	64
BACnet	HS-AC-BAC-16	90	88	56	16
BACnet	HS-AC-BAC-64	90	88	56	64
Modbus	HCPC-H2M1C	50	220	140	64

ACCESSORY

Piping Connection Kit

Piping Connection Kit



Manifold Pipe (For outdoor unit)

For Hi-FLEXi S Series Heat Recovery System--Heat Recovery

Outdoor Unit	AVWT-216*	AVWT-240~336*	AVWT-360~384*	AVWT-408~456*
Manifold Pipe1	HFQ-M202F	HFQ-M212F	HFQ-M302F	HFQ-M302F
Manifold Pipe2	—	—	—	HFQ-M212F

For Hi-FLEXi S Series Heat Recovery System--Heat Pump

Outdoor Unit	AVWT-216~384*	AVWT-408~456*
Manifold Pipe1	HFQ-M32F	HFQ-M32F
Manifold Pipe2	—	HFQ-M32F

For Hi-FLEXi S Series Heat Pump

Outdoor Unit	AVWT-290~422*	AVWT-444~544*	AVWT-552~634*	AVWT-654~696*	AVWT-714~816*	AVWT-824~886*	AVWT-908~1088*
Manifold Pipe1	HFQ-M32F	HFQ-M462F	HFQ-M462F	HFQ-M682F	HFQ-M682F	HFQ-M682F	HFQ-M682F
Manifold Pipe2	—	—	HFQ-M32F	HFQ-M32F	HFQ-M462F	HFQ-M462F	HFQ-M462F
Manifold Pipe3	—	—	—	—	—	HFQ-M32F	HFQ-M462F

For Hi-FLEXi G+ Series Heat Pump

Outdoor Unit	AVWT-232*	AVWT-250~420*	AVWT-438~630*	AVWT-649~840*
Manifold Pipe1	HFQ-M22F	HFQ-M32F	HFQ-M462F	HFQ-M682F
Manifold Pipe2	—	—	HFQ-M32F	HFQ-M32F
Manifold Pipe3	—	—	—	HFQ-M32F

For Hi-FLEXi W Series Heat Pump

Outdoor Unit	AVWT-144~216*	AVWT-240~288*
Manifold Pipe1	HFQ-242F	HFQ-302F
Manifold Pipe2	—	HFQ-242F

Branch Pipe(For indoor unit) First Branch Pipe

For Hi-FLEXi S Series Heat Recovery System--Heat Recovery

Outdoor Unit	AVWT-72~96*	AVWT-120~168*	AVWT-192~216*	AVWT-240~336*	AVWT-360~456*
Branch Pipe	HFQ-M282F	HFQ-M452F	HFQ-M562F	HFQ-M692F	HFQ-M902F

For Hi-FLEXi S Series Heat Recovery System--Heat Pump

Outdoor Unit	AVWT-72~96*	AVWT-120~168*	AVWT-192~216*	AVWT-240~336*	AVWT-360~456*
Branch Pipe	HFQ-102F	HFQ-162F	HFQ-242F	HFQ-302F	HFQ-462F

Piping Connection Kit

For Hi-FLEXi S Series Heat Pump

Outdoor Unit	AVWT-76~96*	AVWT-114~154*	AVWT-170~232*	AVWT-250~522*	AVWT-544~634*	AVWT-654~1088*
Branch Pipe	HFQ-102F	HFQ-162F	HFQ-242F	HFQ-302F	HFQ-462F	HFQ-462F

For Hi-FLEXi G+ Series Heat Pump

Outdoor Unit	AVWT-76~96*	AVWT-114~154*	AVWT-170~232*	AVWT-250~420*	AVWT-438~630*	AVWT-649~840*
Branch Pipe	HFQ-102F	HFQ-162F	HFQ-242F	HFQ-302F	HFQ-462F	HFQ-682F

For Hi-FLEXi W Series Heat Pump

Outdoor Unit	AVWT-76~96*	AVWT-144~216*	AVWT-234~288*
Branch Pipe	HFQ-102F	HFQ-242F	HFQ-302F

First Branch Pipe~Last Branch Pipe

For Hi-FLEXi S Series Heat Recovery System--Heat Recovery

Total Indoor Unit Capacity(kBtu/h)	Q < 54	54 ≤ Q < 86	86 ≤ Q < 114	114 ≤ Q < 154	154 ≤ Q < 170	170 ≤ Q < 212
Low Pressure Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6
High/Low Pressure Gas(mm)	12.7	15.88	19.05	22.2	22.2	22.2
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88
Branch Pipe	HFQ-M142F	HFQ-M282F	HFQ-M282F	HFQ-M452F	HFQ-M562F	HFQ-M562F

Total Indoor Unit Capacity(kBtu/h)	212 ≤ Q < 250	250 ≤ Q < 344	344 ≤ Q < 544	544 ≤ Q < 552	552 ≤ Q < 654	654 ≤ Q
Low Pressure Gas(mm)	28.6	31.75	38.1	41.3	44.5	50.8
High/Low Pressure Gas(mm)	25.4	28.6	31.75	38.1	41.3	44.5
Liquid(mm)	15.88	19.05	19.05	22.2	22.2	25.4
Branch Pipe	HFQ-M692F	HFQ-M692F	HFQ-M902F	HFQ-462XF	HFQ-462XF	HFQ-682XF

For Hi-FLEXi S Series Heat Recovery System--Heat Pump

Total Indoor Unit Capacity(kBtu/h)	Q < 54	54 ≤ Q < 86	86 ≤ Q < 114	114 ≤ Q < 154	154 ≤ Q < 170	170 ≤ Q < 250
Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88
Branch Pipe	HFQ-102F	HFQ-102F	HFQ-102F	HFQ-162F	HFQ-162F	HFQ-242F

Total Indoor Unit Capacity(kBtu/h)	250 ≤ Q < 344	344 ≤ Q < 544	544 ≤ Q < 552	552 ≤ Q < 654	654 ≤ Q
Gas(mm)	31.75	38.1	41.3	44.5	50.8
Liquid(mm)	19.05	19.05	22.2	22.2	25.4
Branch Pipe	HFQ-302F	HFQ-302F	HFQ-462F	HFQ-462F	HFQ-682F

For Hi-FLEXi S Series Heat Pump

Total Indoor Unit Capacity(kBtu/h)	Q < 54	54 ≤ Q < 86	86 ≤ Q < 114	114 ≤ Q < 154	154 ≤ Q < 170	170 ≤ Q < 250
Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88
Branch Pipe	HFQ-102F	HFQ-102F	HFQ-102F	HFQ-162F	HFQ-162F	HFQ-242F

Total Indoor Unit Capacity(kBtu/h)	250 ≤ Q < 344	344 ≤ Q < 544	544 ≤ Q < 552	552 ≤ Q < 654	654 ≤ Q
Gas(mm)	31.75	38.1	41.3	44.5	50.8
Liquid(mm)	19.05	19.05	22.2	22.2	25.4
Branch Pipe	HFQ-302F	HFQ-302F	HFQ-462F	HFQ-462F	HFQ-682F

Piping Connection Kit

For Hi-FLEXi G+ Series Heat Pump

Total Indoor Unit Capacity(kBtu/h)	Q < 58	58≤Q < 86	86≤Q < 114	114≤Q < 154	154≤Q < 170	170≤Q < 250
Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88
Branch Pipe	HFQ-102F	HFQ-102F	HFQ-102F	HFQ-162F	HFQ-162F	HFQ-242F

Total Indoor Unit Capacity(kBtu/h)	250≤Q < 324	324≤Q < 438	438≤Q < 560	560≤Q < 655	655≤Q
Gas(mm)	31.75	38.1	41.3	44.5	50.8
Liquid(mm)	19.05	19.05	22.2	22.2	25.4
Branch Pipe	HFQ-302F	HFQ-302F	HFQ-462F	HFQ-462F	HFQ-682F

For Hi-FLEXi W Series Heat Pump

Total Indoor Unit Capacity(kBtu/h)	Q < 57	57≤Q < 86	86≤Q < 114	114≤Q < 154	154≤Q < 172	172≤Q < 249	249≤Q
Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6	31.75
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88	19.05
Branch Pipe	HFQ-102F	HFQ-102F	HFQ-102F	HFQ-162F	HFQ-162F	HFQ-242F	HFQ-302F

Last Branch Pipe~Indoor unit

Indoor unit	Pipe Size(mm)		Max. Liquid Pipe Length(m)
	Gas Pipe	Liquid Pipe	
7kBtu/h~14kBtu/h	12.7	6.35	15
17kBtu/h~18kBtu/h	15.88	6.35*1	15
22kBtu/h~54kBtu/h	15.88	9.53	40
76kBtu/h	19.05	9.53	40
96kBtu/h	22.2	9.53	40

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



3D Air-flow Panel

Panel Model	Applicable Models	Outer Dimensions (H×W×D)	Interface Dimension (H×W×D)
HPE-TZA750DN3	0.8-1.5HP	180×950×70(mm)	750×130(mm)
HPE-TZA1020DN3	1.8-2.5HP	180×1,220×70(mm)	1,020×130(mm)

Note:For Ceiling Ducted Type (DC Low-height).

Drain Pump—Optional

Model	Power supply	MAX. Lift	Applicable models	HPS-F134E* HPS-F364E*	HPS-151
HPS-F134E*	AC 208/230V/60Hz	1200(mm)	0.8-2.5HP		
HPS-F364E*	AC 208/230V/60Hz	1200(mm)	3-6HP		
HPS-151	AC 220-240V/60Hz	600(mm)	0.8-10HP		

Piping Connection Kit

Air Pure Installation and Use

Model	Applicable Models	Power Supply
HJK-ELZA	for mini 4 way cassette, 4 way cassette	1Φ,220V~240V 60Hz
HJK-ELZB	for ceiling ducted type (High Static Pressure) and ceiling ducted (DC Low-height)	

Hi-Motion

Model	Applicable Models	Picture
HCM-S01E	All indoor unit except 4-way cassette type and mini 4-way cassette type	

Motion Sensor

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

Fresh Air Duct Adapter

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

Humidity Sensor

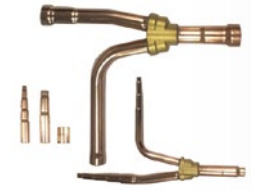
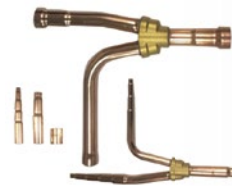
Model	Applicable Models	Picture
HCHR-S01E	4-Way cassette type, Console, Ceiling Ducted Type	

Filter

Filter model	Filter Dimension	Frame Dimension	Suitable for IDUs	
HF-224L-FE	782×165mm	1055×463mm	AVD-76UX6SEH	AVD-76UX6SEL
HF-280L-FE	1050×165mm	1245×463mm	AVD-96UX6SFH	AVD-96UX6SFL

Manifold Pipe Parameter

Branch Pipe Parameterer



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

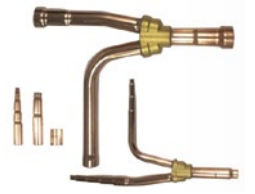
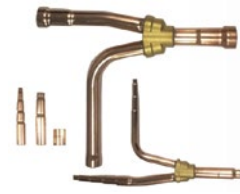
Unit: in.(mm), ID: Inner Diamete,OD: Outer Diameter

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

Unit: in.(mm), ID: Inner Diamete,OD: Outer Diameter

Branch Pipe Parameter

Branch Pipe Parameterer



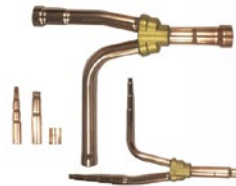
Model	Low Pressure Gas Line	High Pressure Gas Line	Liquid Line	Reducer for Low Pressure Gas Line	Reducer for High Pressure Gas Line	Reducer for Liquid Line
HFQ-M202F						—
HFQ-M212F						—
HFQ-M302F						—

Unit: in.(mm), ID: Inner Diameter, OD: Outer Diameter

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

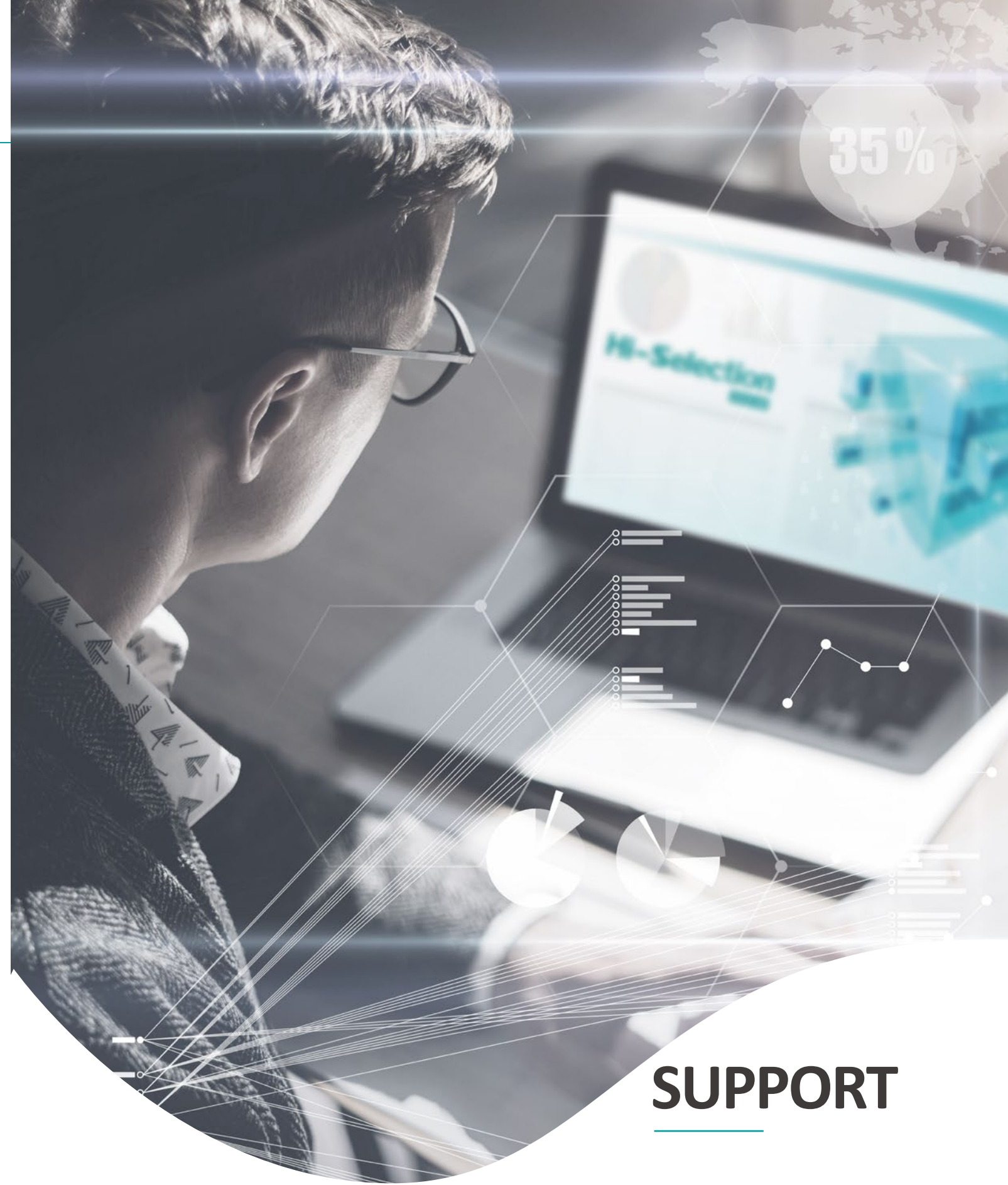
Unit: in.(mm), ID: Inner Diameter, OD: Outer Diameter

Branch Pipe Parameterer



Model	Low Pressure Gas Line	High Pressure Gas Line	Liquid Line	Reducer for Low Pressure Gas Line	Reducer for High Pressure Gas Line	Reducer for Liquid Line
HFQ-462XF						
				(1 unit)	(1 unit)	(1 unit)
HFQ-682XF						
				(1 unit)	(1 unit)	(2 unit)
				(2 unit)	(2 unit)	(1 unit)
			(1 unit)	(1 unit)	(2 unit)	

Unit: in.(mm), ID: Inner Diameter, OD: Outer Diameter



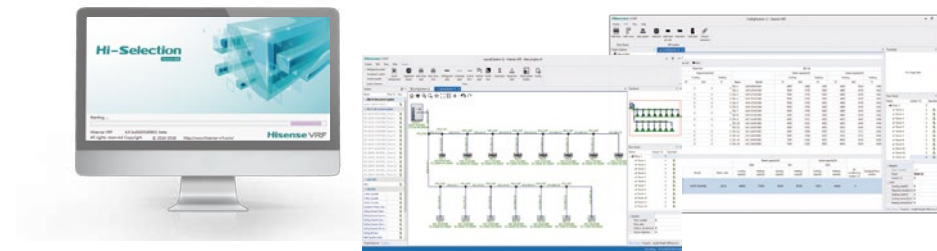
SUPPORT

Engineering Tools

Selection Software

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

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



Design Software

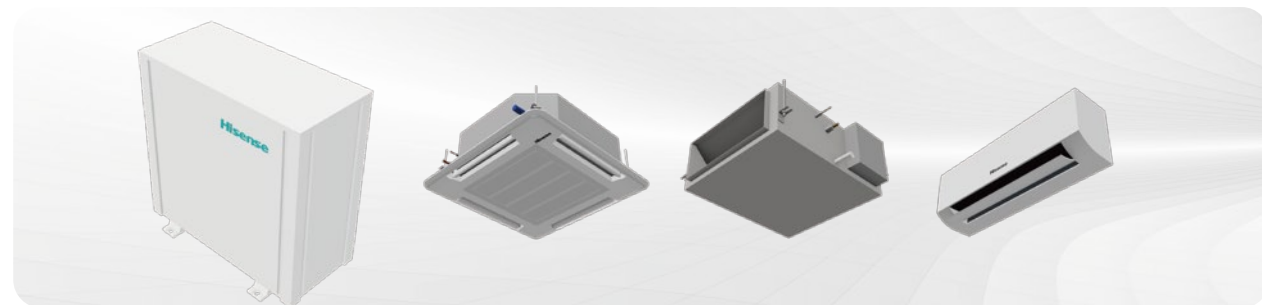
Hisense VRF design software is based on Autocad 2008~2020 which supports both 32-bit and 64-bit operating system. It involves the latest all ranges of products of Hisense, and supports online database update. The software supports system calculating for refrigerant pipes and condensate pipes. Besides, the installation material and the amount of the refrigerant charge can be calculated through the software. So that users can design the system easily.



BIM

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

Hisense offers the MEP engineers the needed Revit families and 3D DWG's to optimize their BIM model.



Engineering Tools

CFD

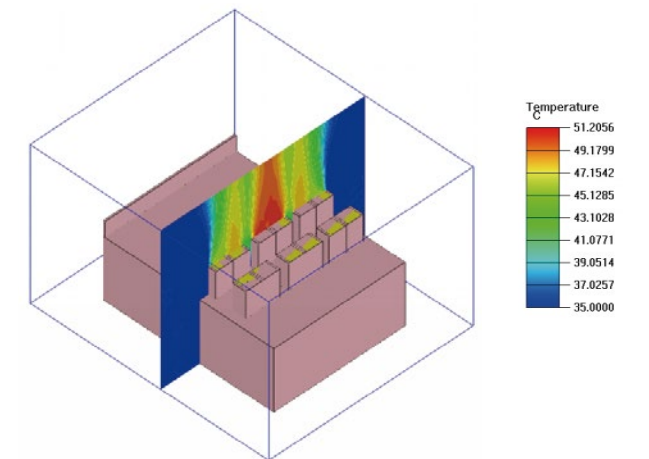
What is CFD technology ?

CFD stands for Computational Fluid Dynamics, which is the science of predicting fluid flow, heat transfer, mass transfer, chemical reactions, and related phenomena

by solving the mathematical equations which govern these processes using a numerical process (that is, on a computer).

What can we do with CFD technology ?

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



GCSS

Hisense GCSS (Global Customer Service System) is after-sales service online web-based System for Hisense VRF, it's can be freely accessed by Hisense certificated service partners and Hisense agents. GCSS has 4

main functions, including life-cycle project management, spare part support, warranty claim system and online call center.

