Hisense

Qingdao Hisense HVAC Equipment Co., Ltd.
Hisense International Center, Qingdao, China

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HCAC-VRF-H5EU202502

Hisense HVAC

Hi-Smart H5

Innovative R32 Modular Side Flow VRF

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

Hisense SINCE 1969

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

SINCE 1969

BUSINESS OVERVIEW

Multimedia

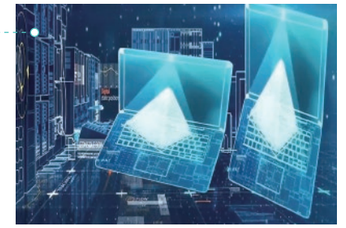
TV and Display Devices
Internet TV Operation
Mobile Communication Devices
Optical Communication
Devices
Chip

Household Appliances

Refrigerator
Freezer
Air-conditioner
Washing Machine
Kitchen Appliance

IT Smart Systems

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



Real Estate & Modern Services

Real Estate
High-end Shopping Mall Chain
Mould Design and Manufacturing
Finance
Trade

GLOBAL HISENSE SINCE 1969

Hisense has started a long-term sports marketing strategy to increase brand awareness worldwide. After the successful sponsorship of **UEFA EURO 2016 & 2020 & 2024** and **FIFA WORLD CUP 2018 & 2022**, Hisense has made clear its focus on football. Hisense also is the official partner of **FIFA Club World Cup 2025.**

2016

Official Partner of
UEFA EURO 2016

2018

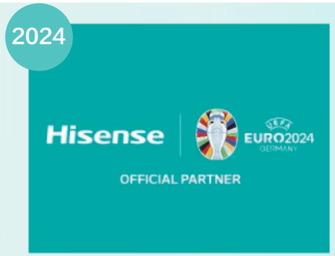
Official Sponsor of
2018 FIFA World Cup

2020

Official Partner of
UEFA EURO 2020

2022

Official Sponsor of
2022 FIFA World Cup

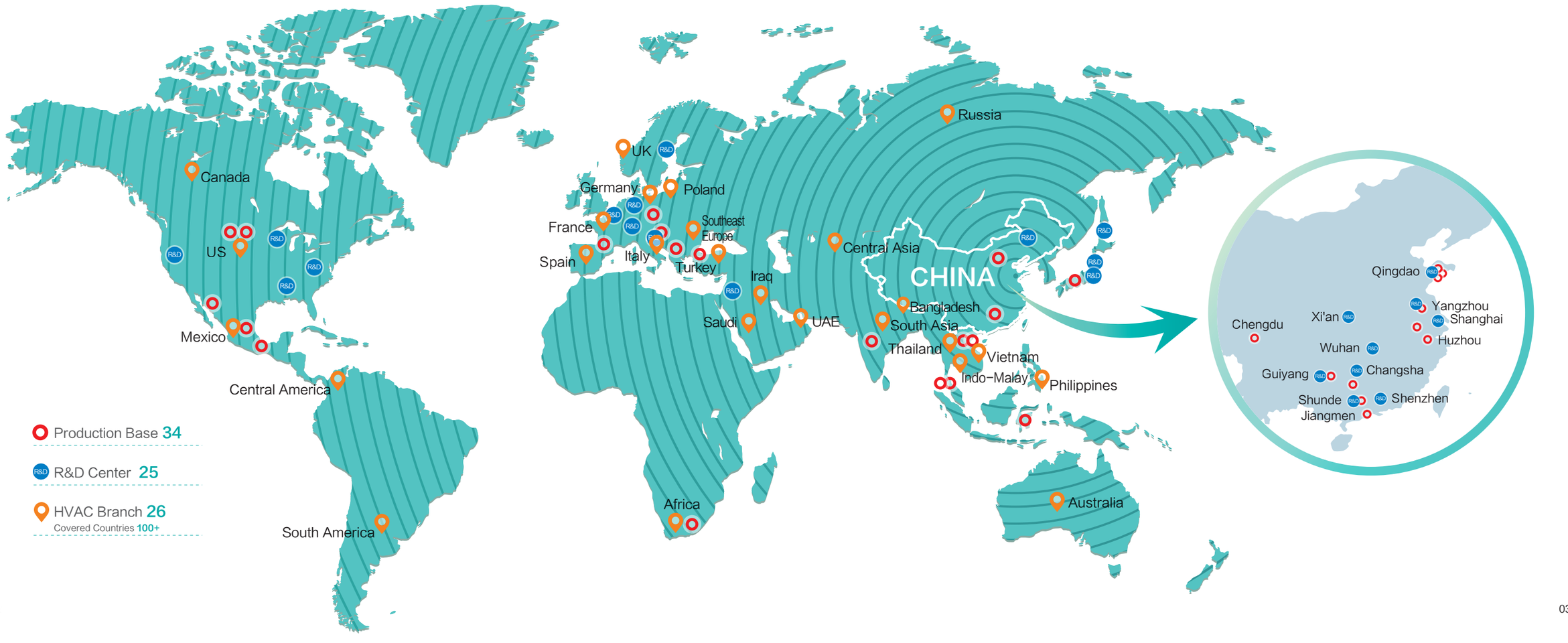


2024

Official Partner of
UEFA EURO 2024

2025

Official Partner of
FIFA Club World Cup 2025



Hisense HVAC MANUFACTURING BASE

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

Hisense HVAC always regards product technology research and development as the most important value. With strong technological innovation capabilities, Hisense HVAC has participated in the formulation and revision of 112 national standards, industry standards and association standards, and boasts 2020 authorized patents in the field of CAC and heat pump products. With the great support of all shareholders and customers, Hisense HVAC is expected to become the leading brand in the industry.

Note: The above data is as of Dec. 31th, 2024.

266,000 m^2
Manufacturing Area

40+
Production Line

11,000,000 units/year
Production Capacity

16,700 m^2/70+
Laboratory

The Guiding Light of Manufacturing

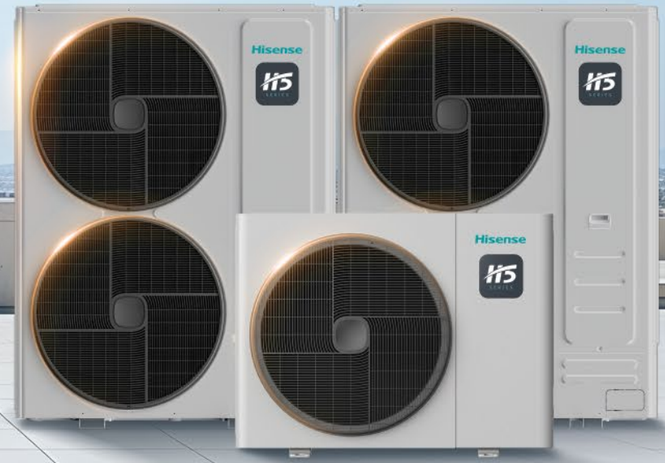
The World's First

VRF Lighthouse Factory

Hi-Smart H5

The industry's first R32 modular side-flow VRF!

Hi-Smart H5 is an innovative R32 solution that offers an unprecedented combination of benefits: a two-module combination capable of up to 32 HP, delivering performance on par with large top-flow units, all within slim, modular units that can be installed virtually anywhere. This innovation optimizes HVAC design, particularly for projects where space for outdoor units is limited.



Contents

ECO-FRIENDLY R32 REFRIGERANT

Hisense HVAC introduces the lower GWP (Global Warming Potential) refrigerant R32 on its VRF products, which is a perfect solution for attaining CO_2 emission targets.
R32 refrigerant contributes to meeting the F-gas regulation targets as described in EU Regulation 517/2014. We are determined to become CO_2 neutral by 2050 and create a sustainable future together with you.

Features

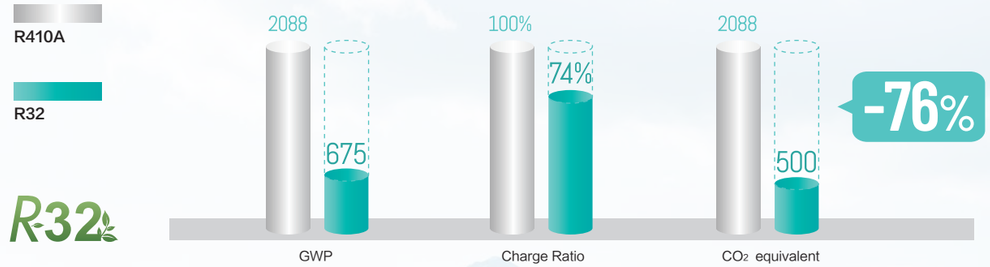
- Zero Ozone Depletion Potential (ODP)
- Lower Global Warming Potential (GWP)
- Less Charge Amount Under the Same Capacity
- Single Component Refrigerant, Easy to Handle and Recycle

Innovative solutions for promoting the decarbonization of buildings

In today's world, where climate change affects everyone, Hisense HVAC prioritizes the reduction of carbon emissions from buildings. The Hi-Smart H5 utilizes innovative R32 VRF technology to achieve this goal, while keeping comfort and cost-effectiveness intact.

Less refrigerant, less CO_2-EQ emissions

By using the R32 refrigerant with a low Global Warming Potential (GWP) and the Hi-Smart H5 system's reduced refrigerant charge, the overall CO_2 equivalent emissions can be lowered by 76% compared to the traditional R410A products.



The optimal decision for the welfare of all.

Building owners

Promote the decarbonization of your buildings to enhance their value and amplify your investment returns.

Consultants

Secure your specifications. Ensure premium comfort. Ease buildings labelling.

Installers

Set yourself apart from competitors, choose the expert in inspired R32 technology, a leader since 2014.

Our planet

Always think about the consequences. Go beyond mere products and develop secure, low Global Warming Potential (GWP) solutions to honor the Earth.

reddot design award

Aesthetic

Transforming Technology into Art

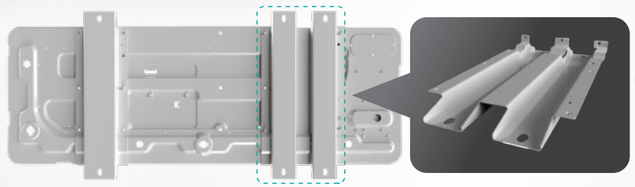
Sleek Design

The Hi-Smart H5 Series reflects the company's core values of "Beauty, Symmetry, and Unity" with its design that integrates squares and circles. This geometric fusion represents stability and harmony, demonstrating Hisense's dedication to aesthetic equilibrium. The goal is to craft a visually appealing and engaging experience, transforming technology into an art.

Essential Components for Ultimate Comfort

Integrating vital components—a well-ventilated grille, a fan, and a motor for efficient airflow, precision-engineered heat exchangers, and a powerful compressor—in perfect harmony, the Hi-Smart H5 Series brings you superior comfort with the technological refinement inherent in Hisense HVAC.

1. **Grille**
   Geometric aesthetics of "Square and Circle"
2. **Axial Fan**
   Wide diameter fan, air volume increased by 44%
3. **Fan Motor**
   Step-less DC motor for precise speed regulation
4. **Motor bracket**
   Strength increased by 1.33 times
5. **Electrical Box**
   Integrated electrical box to achieve stable operation
6. **Compressor**
   Enhanced vapor injection compressor for high efficiency
7. **Heat Exchanger**
   Brand new dark-gray anti-corrosion fins
8. **Gas-liquid Separator**
   maintain the system's efficient operation and balance of oil levels



9 **W-shaped pedestal**
Industry-first, strength increased by 50%

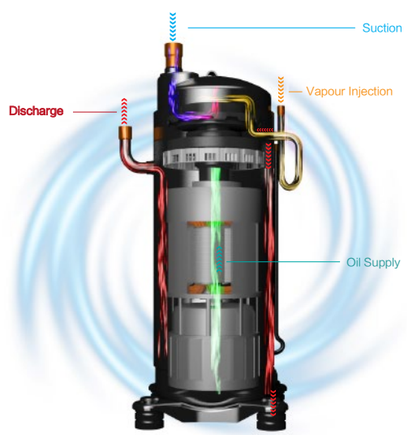
Note: For single-fan units, the maximum SEER is 8.20 and SCOP is 5.00.

Efficiency

Maximized Efficiency, Minimized Costs

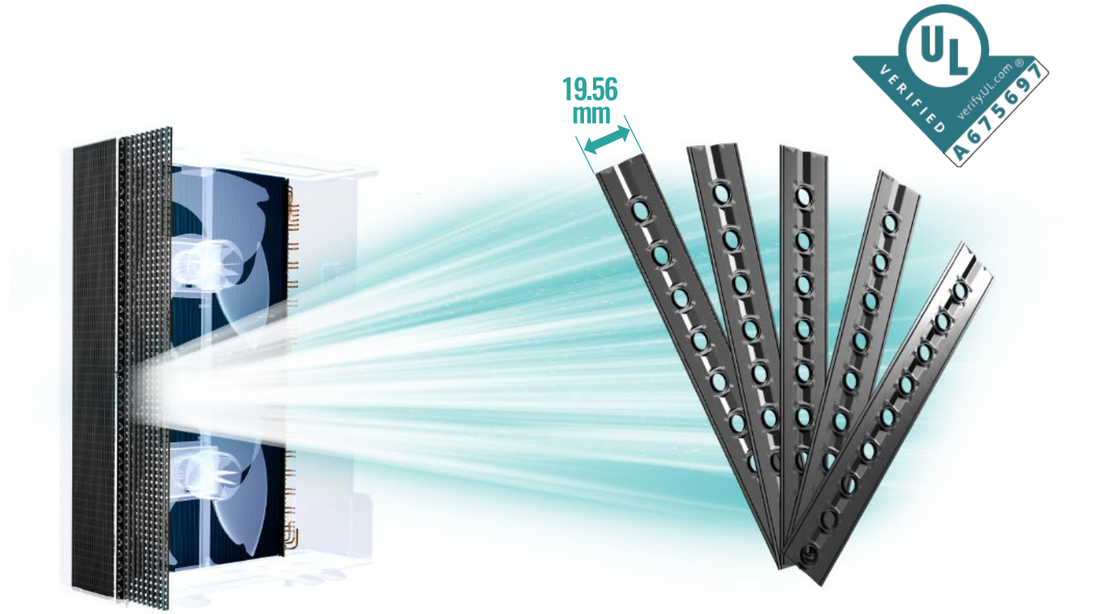
Vapor Injection Technology

Thanks to vapor injection technology, the Hi-Smart H5 is more energy-efficient and offers enhanced heating performance in low-temperature environments. The EVI scroll compressor has a 25% greater capacity than a conventional one for the same power consumption.



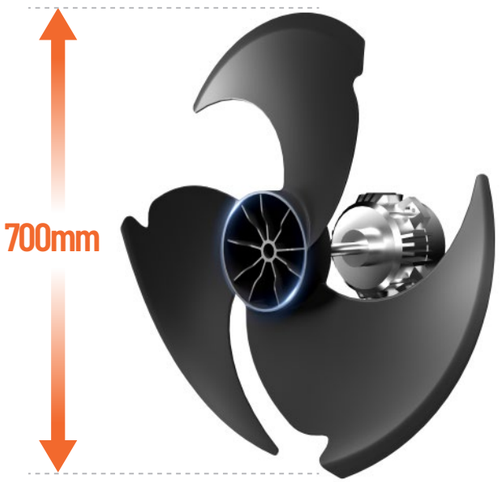
New Corrugated Fin

We are dedicated to the innovation of fin technology. The Hi-Smart H5 utilizes the latest dark-gray corrugated fins, with a fin width of 19.56mm, which enhances the defrosting performance of the heat exchanger and increases the heating capacity by 10%. Additionally, the use of dark-gray fins significantly improves the anti-corrosion performance of the outdoor unit.



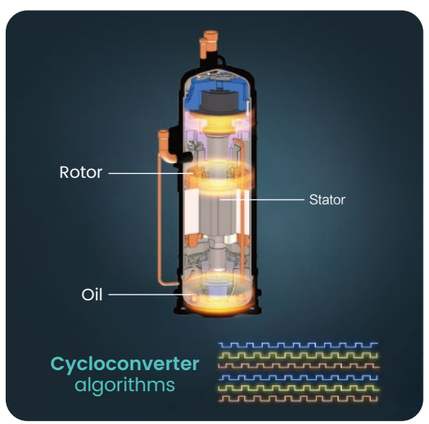
Wide Fan with DC Motor

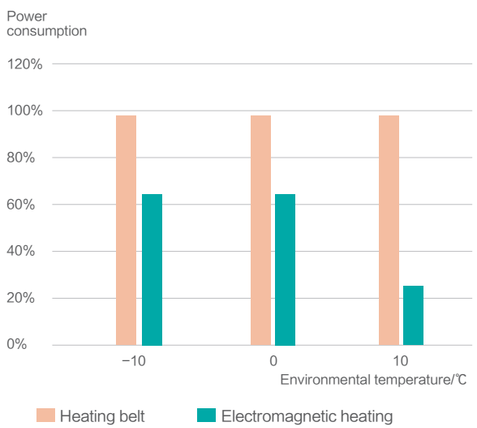
The outdoor unit features a new generation of wide-diameter fans, with the fan diameter increased from 544mm to 700mm (600mm for single-fan unit). This upgrade results in a 44% increase in airflow at the same rotational speed, enhancing energy efficiency at lower speeds and boosting cooling capacity at higher speeds. Additionally, the unit is equipped with a DC inverter motor that enables precise speed control, ensuring stable and efficient operation.



Electromagnetic Heating Technology

Featuring Hisense's proprietary electromagnetic heating technology, the need for an external electric heating belt is eliminated. This innovation heats the lubricating oil directly within the compressor's fixed rotor, reducing heat loss and enhancing heating efficiency. As a result, it significantly reduces the low-temperature preheating time and can lower power consumption by up to 74%.





1W Standby Mode

During long-term standby periods such as holiday or transition season, traditional devices often result in unnecessary energy waste. Hisense H5 Series tackles this issue with its innovative 1W standby mode and circuit design, which not only saves on your electricity bills but also contributes to environmental protection, making the H5 Series a smart choice for both your wallet and the planet.

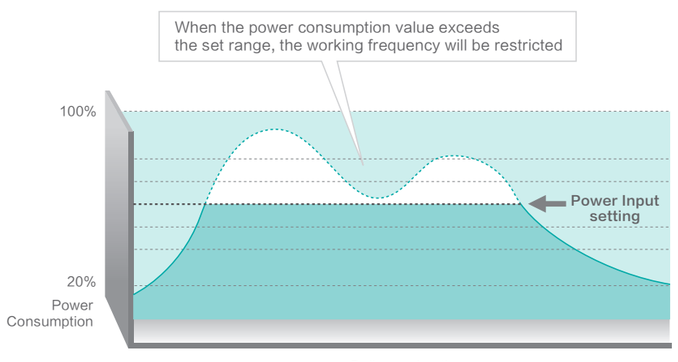
Transition season

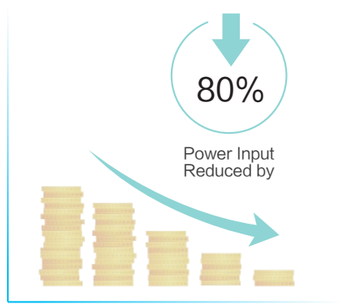
Holiday

Note: Limited functionality in standby mode, only supports wake-up via wired controller or centralized control. Only available for double-fan units.

Energy-saving Mode

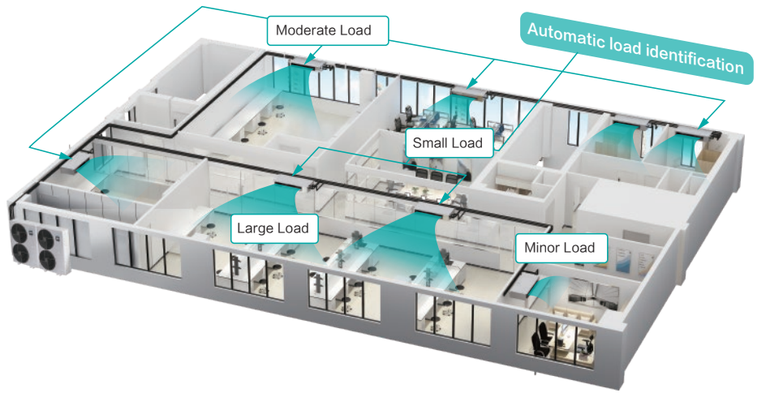
The Energy-saving Mode is an outstanding feature that optimizes the capacity output of the VRF system based on peak and off-peak electricity rates or restriction conditions, enabling energy-efficient operation without compromising comfort. The Energy-saving Mode offers a wide adjustment range (20%-100%) and can achieve precise control in 1% increments.

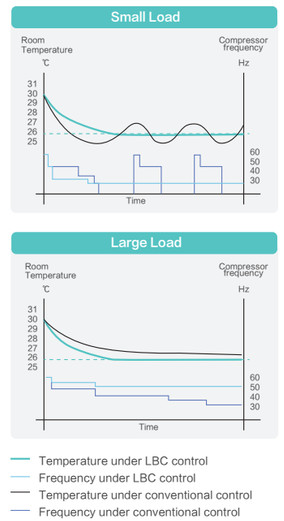




Load Balancing Control (LBC) Technology

LBC technology identifies the current load demand of each indoor unit and calculates the optimal air volume and temperature settings based on the unit's capacity, so as to balance the load output of each room. Compared to traditional refrigerant flow control methods, LBC technology increases balancing capacity by 30% and enhances energy efficiency by 18%.

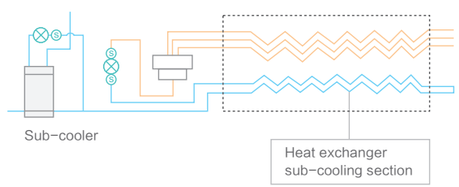




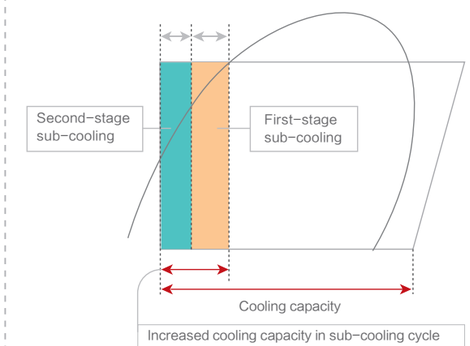
Two-Stage Subcooling

The Hi-Smart H5 utilizes a high-efficiency flow channel dual-metallic plate heat exchanger as a sub-cooler. Compared to conventional plate heat exchangers, it has a smaller volume, less heat exchange loss, superior heat exchange performance, and better subcooling performance.

Two-stage sub-cooling cycle diagram

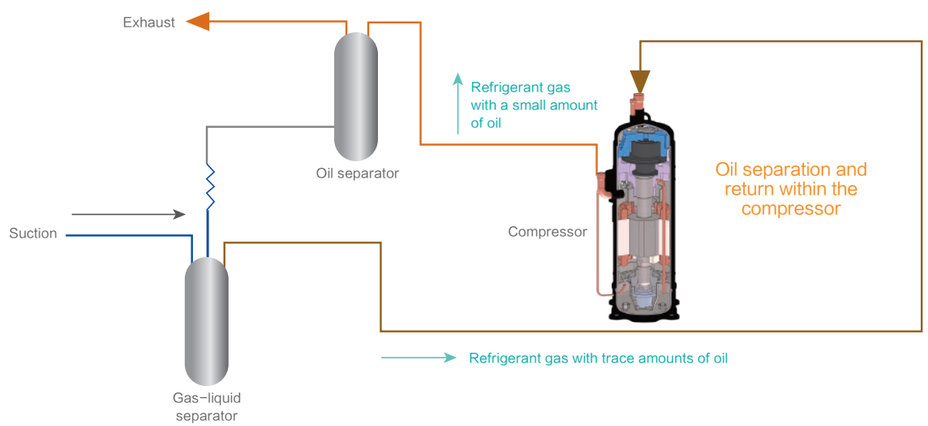


Two-stage sub-cooling pressure enthalpy diagram



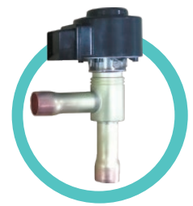
Multipie Oil Control

Hisense utilizes advanced multi-stage oil separation technology and oil return control technology, achieving a system oil return rate of up to 99.99%, ensuring a safe oil level for the compressor, thereby ensuring the long-term safe and reliable operation of the unit.

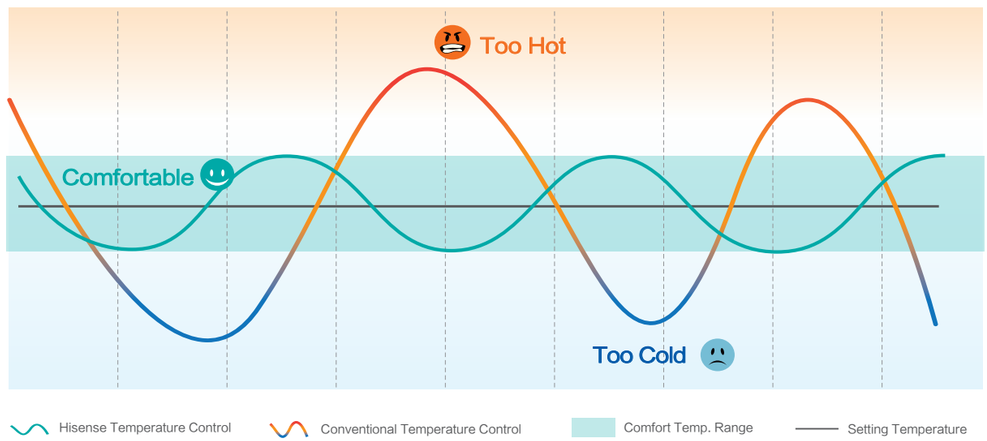


High-precision EEV

The outdoor unit is equipped with high-precision electronic expansion valves with 3000-step adjustment, enabling more precise control of refrigerant flow and reducing indoor temperature fluctuation. At the same time, this greatly reduces the system's operational power consumption.

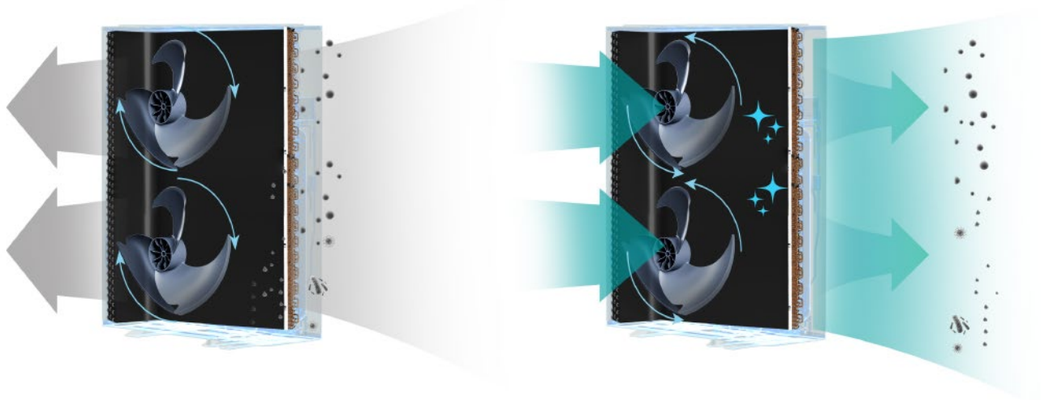


3000-step EEV



Dust-cleaning Technology

Keep your air conditioner performing at its best with Hi-Smart H5's innovative dust-cleaning technology. Our outdoor fan reverses direction to efficiently remove accumulated dust, reducing air resistance and maintaining optimal heat exchange. Experience uninterrupted comfort for the long run with Hi-Smart H5.



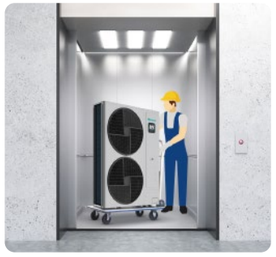
Note: Max. ESP for single-fan units is 35Pa.

Flexibility

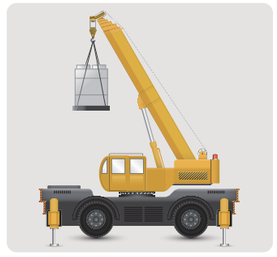
Scenario Versatility & Installation Simplicity

Less weight, Easier transportation

The Hi-Smart H5 unit features a slim design that is 28% lighter than the last generation top-flow unit for the same capacity, which allows it to be flexibly installed in tight spaces while also reducing product transportation and installation costs.



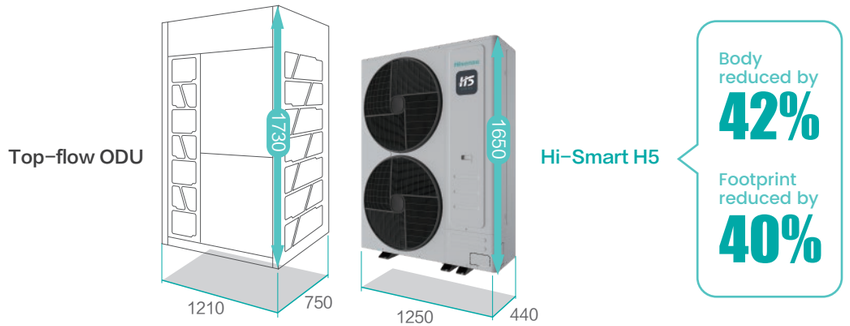
H5 side-flow VRF:
Units fit easily into an elevator.



Conventional top-flow VRF:
Units cannot be lifted by humans.
A crane is necessary.

Slim and Compact Footprint

The H5 unit, with its smaller footprint and compact body compared to the last generation S Series top-flow unit for the same capacity, enables the utilization of the saved rooftop space for a green roof. This enhances the building's aesthetics.



Unit: mm

Anywhere & Everywhere

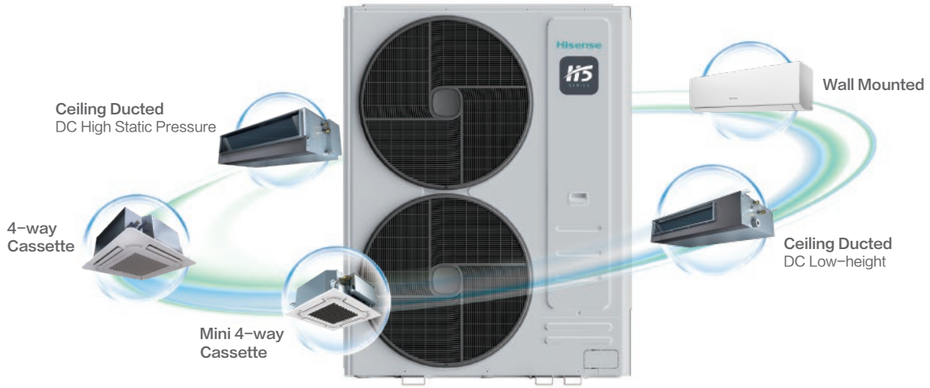
Thanks to its slim modular design, H5 offers unrivaled flexibility of installation location. Save your building's most valuable area, and place H5 in the small narrow spaces of your building. On the rooftop, balcony, or indoors; you choose!

Wide Range of Connectable Indoor Units

Available for Hi-Smart H5 VRF system, our extensive range of indoor units comprises multiple types ranging from 5 kBtu/h to 96 kBtu/h to provide additional design flexibility.

Max. IDU Q'TY **64pcs**

Max. Match Ratio **150%**



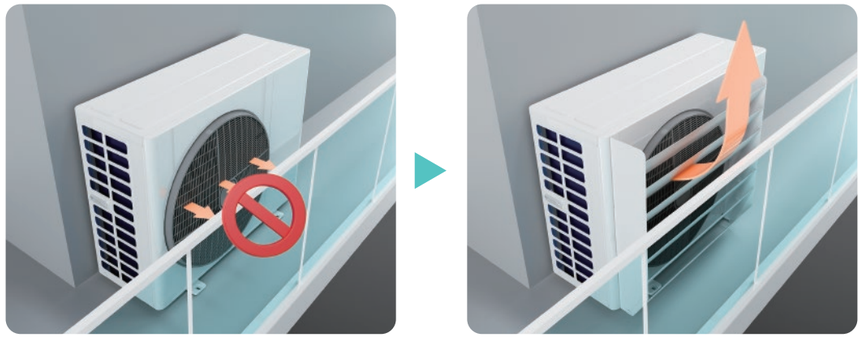
Long Piping for Design Flexibility

The Hi-Smart H5 provides long piping length possibility of 175m, with a total piping length of 500m. The height difference between IDU and ODU can be up to a maximum of 50m. These generous allowances facilitate system design and better adapts your building layout.

*Note: 40m if the outdoor unit is below the indoor unit.

Flexible Air Discharge Directions

When outdoor units are installed in narrow spaces where an obstacle blocks the discharged air, a well-designed air outlet guide can divert the airflow to enhance heat dissipation efficiency.

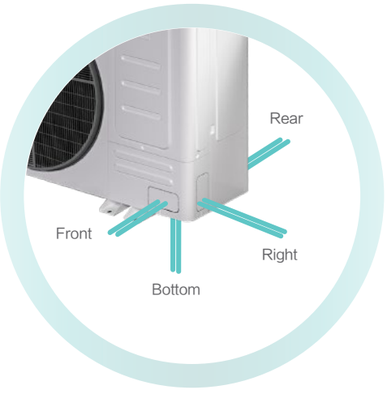


Poor Ventilation

Smooth Ventilation

Four-way Piping Connection

The Hi-Smart H5 is not hindered by installation restrictions on site, thanks to its flexible piping directions, which include front, bottom, right, and rear connections.



NFC Module (optional)

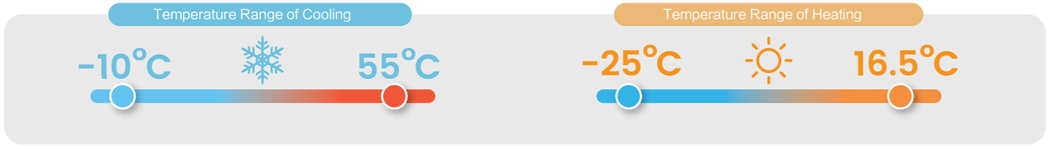
The Hi-Smart H5 supports the optional NFC module, allowing service engineers to simply touch their phones to the unit's NFC module to read operational data and diagnose system faults through an app, making service work more convenient and intelligent.

Wide operation range
−25°C to 55°C

Reliability
Stable Performance

Wide Operation Range

The Hi−Smart H5 series boasts a wide operating temperature range, with cooling operations ranging from −10℃ to 55℃ DB and heating operations from −25℃ to 16.5℃ WB. Such a broad range ensures reliable performance in diverse conditions.



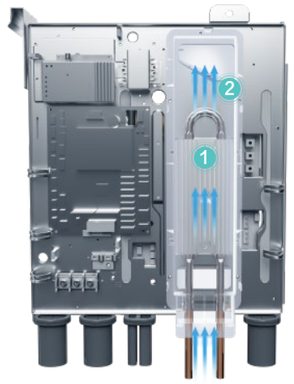
Note: The operation range of single−fan units is −10℃ to 52℃ in cooling mode and −25.5℃ to 15.5℃ in heating mode.

Electrical Control Box Cooling 2.0

Hi−Smart H5 has fully upgraded its electrical module cooling technology with an independent air channel inside the electrical control box, coupled with direct refrigerant cooling and Integrated air cooling technologies. These triple cooling solutions ensure the unit operates stably and efficiently in high−temperature environments.

Integrated Air Cooling

The combination of an inverter fan, a direct refrigerant cooling module, and a built−in independent air channel constitutes an integrated air−cooling solution. The innovation of combining fan air supply with direct refrigerant cooling can lower the internal temperature of the electrical box by 5−10℃ compared to traditional air−cooling methods.



Front

Back

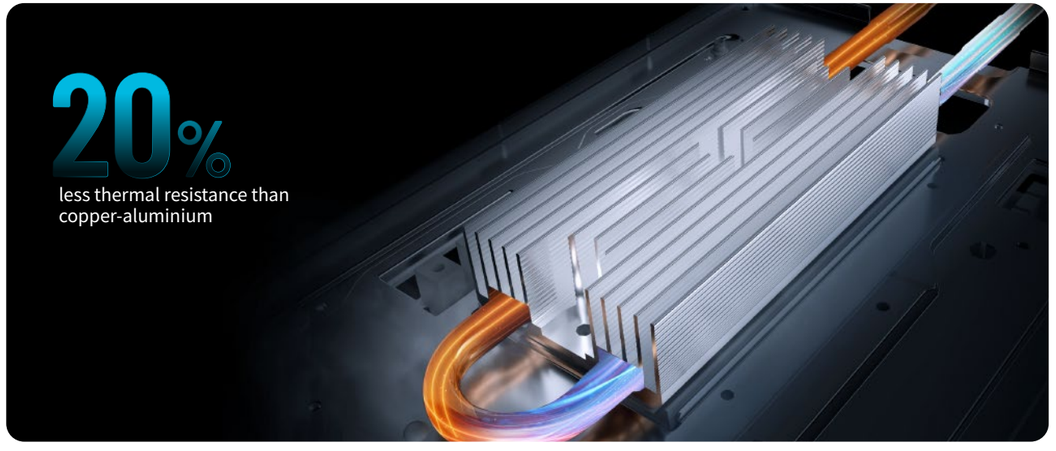
1 Direct refrigerant cooling

2 Air channel

3 Inverter fan

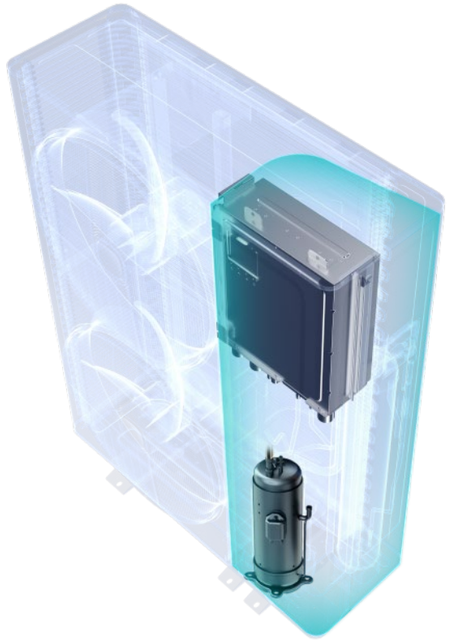
Direct Refrigerant Cooling

This design employs direct refrigerant cooling with corrugated fins, reducing thermal resistance by 20% compared to the previous copper−aluminum cooling, ensuring efficient operation of the inverter module and stable operation of the unit at 55℃ high temperatures.



Sealed Electric Box

The H5 unit features a sealed electrical box for stable operation and a compact dual-sided module layout that saves 18% space. The top-mounted electrical box facilitates easy setup and maintenance.



Insect Protection

Top Located

Convenient Maintenance

Backup Operation for Emergencies

When two H5 modules are combined, the backup operation function ensures the system won't come to a complete stop in the event of an outdoor unit failure. The unit can provide up to five backups, allowing the system to continue operating with the remaining module until service and repair are completed.

Multiple Measures Ensuring Room Safety

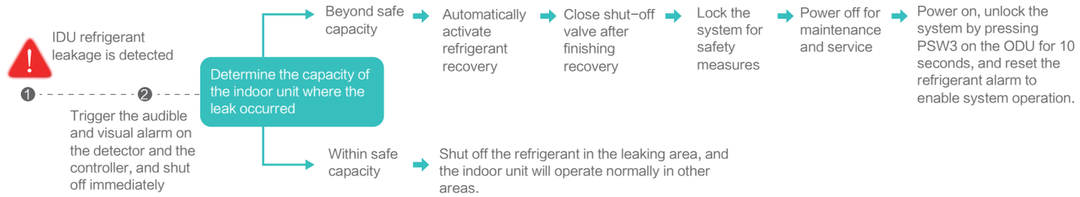
Refrigerant Leakage Detection

Real-time refrigerant leakage detection is essential for R32 refrigerant system. If the refrigerant concentration exceeds 5000ppm, the indoor unit will stop operation, and trigger the audible and visual alarm. It can also be linked to any third-party alarm system or ventilation system.

Refrigerant Recovery

In the event of a refrigerant leak, our system triggers alarms and shuts down. If the leak occurs in an indoor unit that exceeds the safe capacity, the system immediately activates refrigerant recovery. Furthermore, in the event of a sudden power outage, the shut-off box automatically closes the valves to prevent leaks.

The Progress of Refrigerant Recovery



Comfort

All-around Comfort

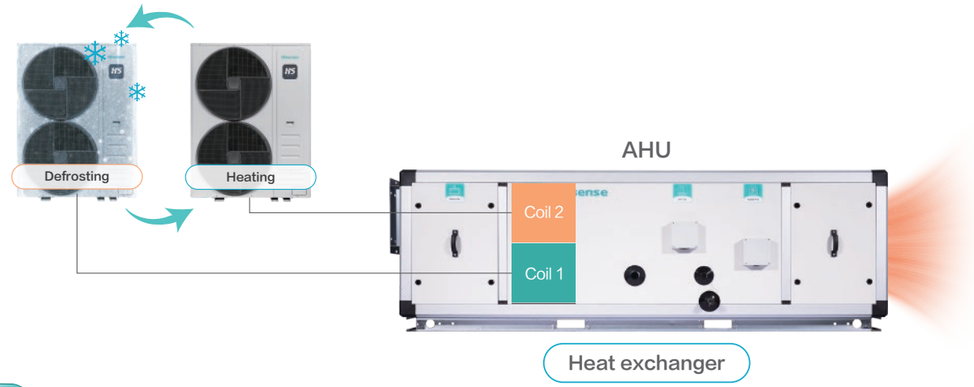
Low Noise Axial Fan

The fan incorporates a bionic structure and a concave trailing edge design, which positions the airflow closer to the fan's suction surface and minimizes radial flow. This innovative design effectively reduces the fan's air supply noise by 2.5 dB(A).

Related Patents：CN202410275466.6/CN202410275049.1/CN202430070887.6

Rotating Defrost for Constant Heat

For the Hi-Smart H5 with multiple systems, when the outdoor unit requires defrosting, each system will take turns to defrost. During this rotational defrost process, the indoor unit can continue to produce heat, ensuring continuous comfort for you.

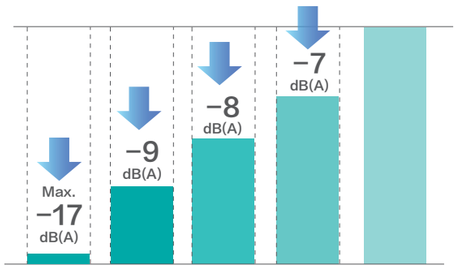


Noise Control

Low Noise Mode

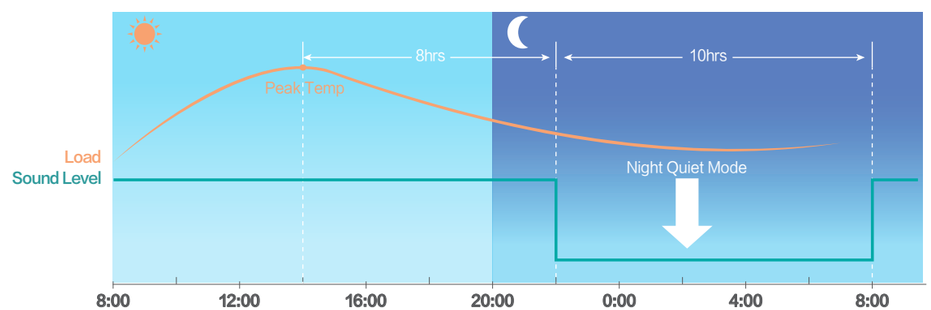
The Hi-Smart H5 series outdoor units feature a low-noise operation mode, which offers multiple adjustable levels. The highest level is capable of reducing noise by up to 17dB(A). Users can flexibly set this mode at any time to meet their silent requirements during various periods.

Note: The low-noise mode can be set on the outdoor unit's PCB



Auto Night Quiet Mode

Generally, people are more sensitive to noise at night. The H5 outdoor unit can automatically activate the night quiet mode as needed, with noise levels potentially being reduced by up to 9dB(A).



The Hisense Intelligent Control Solution delivers an exceptional smart living experience. The air-conditioning system can be controlled at anytime and anywhere.

Intelligence

Simple and Intuitive Controls

Individual Control

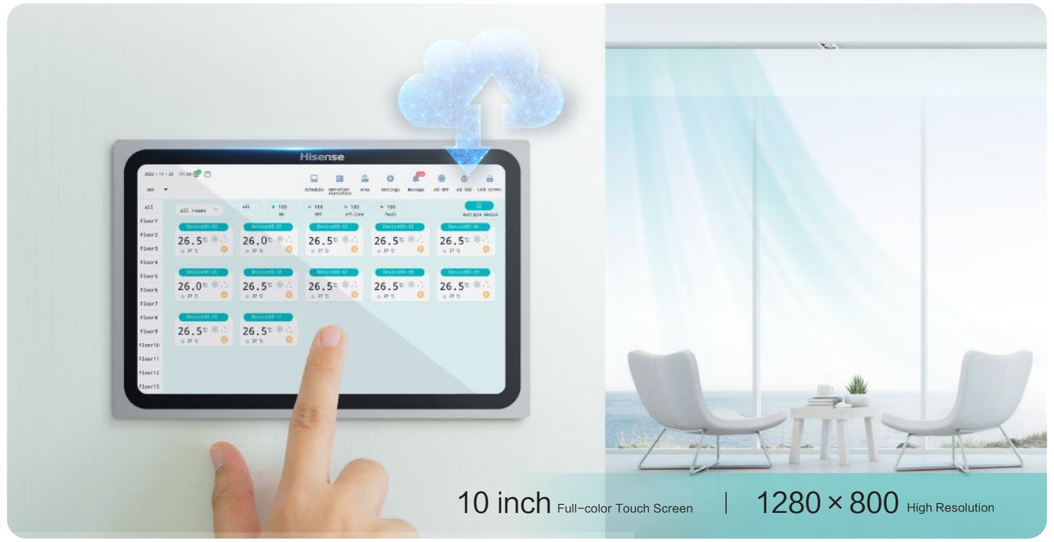
Wired Controller

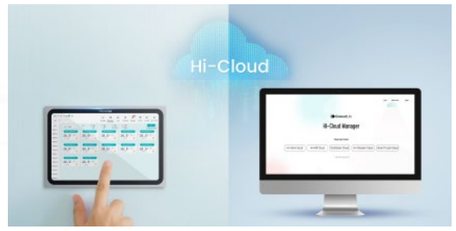
Model: HYXM-VG01
Dimension (W × H × D): 5 × 5 × 6 in.
Connectable IDUs: 16pcs

- Six customized colors
- Diverse Display Colors
- Brand-new Auto Changeover
- Weekly/holiday schedule setting
- Refrigernt leakgae reminder

Centralized Control

Smart Touch II



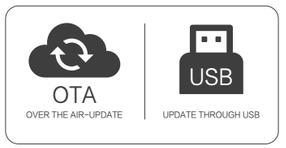


Features

- Web access available
- Intuitive interface

- 14 languages for choice
- Weekly/yearly schedule setting
- Error reminder email

- Supporting OTA update (remotely) and USB update (locally)

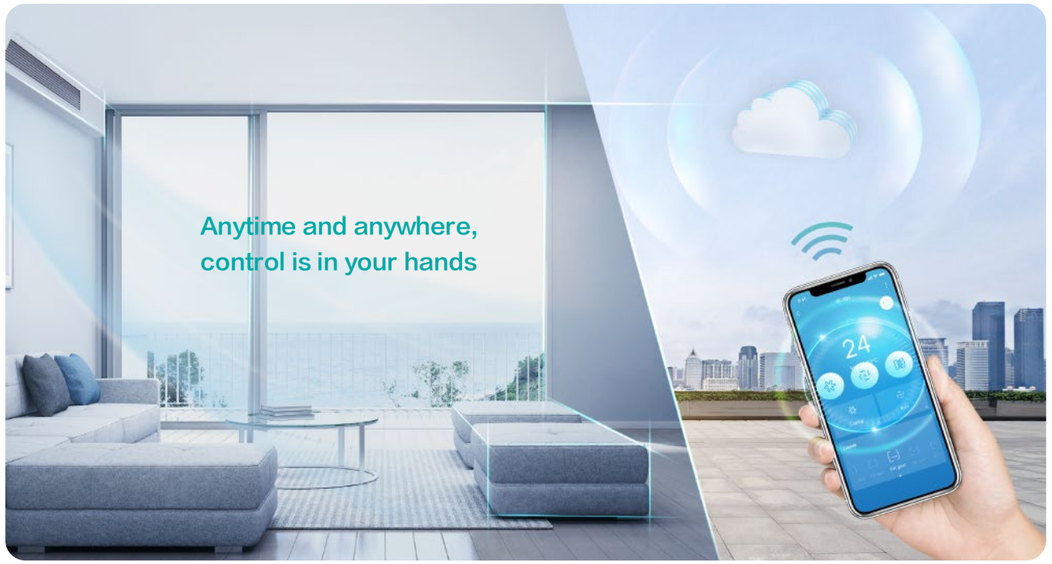


Specifications

Model	Power Supply	Dimension	Net Weight
HYJM-RA10D	AC 100~240V/50/60Hz	170 × 252 × 37(mm)	1.12kg

Intelligent Control

Hi-Mit II



Brand-new Adapter and App

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

Hisense Hi-Mit

Available on the App Store

Download today Google Play

Convenient Control

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

Energy management interface

Customized mode interface

Specifications

Model	Power Supply	Max. Current	Power Input	Dimension	Net Weight
HCCS-H64H2C1M	DC 12V	1A	2.4W	91×117×31(mm)	0.14kg

One-Click Remote Control

With our Hi-mit App, command your home on-the-go. Turn on the AC during your commute, enjoying the fresh breeze or chill the moment you step into your house. Experience the future of convenience, where your comfort is just a tap away.

Whole-house Voice Control

Hi-Smart H5 Series can be connected with Google and Amazon speakers for effortless voice control in your house. Wake up your devices with a simple voice command, adjusting power on/off, setting modes, temperatures, and fan speeds without lifting a finger, freeing you to enjoy a truly hands-free smart living experience.

Third-party Voice Platform

works with Google Home

works with alexa

Outdoor Unit

HP			4HP	5HP	6HP
Model	AC 1Φ, 220–240V/50/60Hz		AVW–41HJDH2H1	AVW–48HJDH2H1	AVW–54HJDH2H1
	AC 3Φ, 380–415V/50/60Hz		AVW–41HKDH2H1	AVW–48HKDH2H1	AVW–54HKDH2H1
Cooling	Capacity	kW	12.1	14.0	15.5
		kBtu/h	41.5	48.0	53.0
	Power Input	kW	3.30	4.24	4.70
	EER	kW/kW	3.67	3.30	3.30
	SEER	kW/kW	8.20	7.90	7.90
Heating	Capacity (Max/Nom)	kW	14.2/12.1	16.0/14.0	18.0/15.5
		kBtu/h	48.0//41.5	54.5/48.0	61.5/53.0
	Power Input (Max/Nom)	kW	3.60/2.63	4.10/3.18	4.80/3.52
	COP (Max/Nom)	kW/kW	3.94/4.60	3.90/4.40	3.75/4.40
	SCOP	kW/kW	5.00	4.65	4.60
Air Flow Rate		m^3/min	80	80	80
Sound Pressure Level (Cooling/Heating)		dB(A)	52/52	53/53	54/54
Refrigerant	Type	–	R32		
	Pre–charged Quantity	kg	2	2	2
Weight	Net Weight (Single–phase/Three–phase)	kg	94/95	94/95	94/95
	Gross Weight (Single–phase/Three–phase)	kg	109/110	109/110	109/110
Dimensions	Net (H × W × D)	mm	840 × 1100 × 390	840 × 1100 × 390	840 × 1100 × 390
	Packing (H × W × D)	mm	1000 × 1185 × 530	1000 × 1185 × 530	1000 × 1185 × 530
Cabinet Color		–	Grayish White	Grayish White	Grayish White
Ref. Piping	Gas	mm	15.88	15.88	15.88
		inch	5/8	5/8	5/8
	Liquid	mm	9.53	9.53	9.53
		inch	3/8	3/8	3/8
Connectable Indoor Units	Quantity	pcs	10	12	13
	Connection Ratio	–	50%～150%	50%～150%	50%～150%
Piping Design	Max. Piping Length	m	80	80	80
	Height Difference Between ODU and IDU	m (OD higher)	50	50	50
		m (OD lower)	40	40	40
	Height Difference Between IDUs	m	15	15	15
Operation Range	Cooling	DB ℃	–10～52		
	Heating	WB/DB ℃	–25.5～15.5/–25～26		

Note:
1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m.
Heating conditions: indoor air inlet temperature: 20℃ DB, outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference: 0m.
2. During cooling (48~52℃) or heating (23~26℃) operations, the unit may operate intermittently.
3. The above performance data is obtained on the basis of the performance of this outdoor unit, with a 100%–combination of 4–way cassette indoor units.

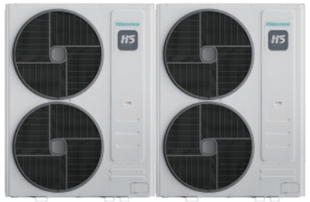
Outdoor Unit

HP			8HP	10HP	12HP	14HP	16HP
Model			AVW–76HKDHE2	AVW–96HKDHE2	AVW–114HKDHE2	AVW–136HKDHE2	AVW–154HKDHE2
Combination			AVW–76HKDHE2	AVW–96HKDHE2	AVW–114HKDHE2	AVW–136HKDHE2	AVW–154HKDHE2
			/	/	/	/	/
Power Supply			AC 3Φ, 380–415V/50/60Hz				
Cooling	Capacity	kW	22.4	28.0	33.5	40.0	45.0
		kBtu/h	76.4	95.5	114.3	136.5	153.5
	Power Input	kW	5.89	7.57	9.31	11.43	13.24
	EER	kW/kW	3.80	3.70	3.60	3.50	3.40
	SEER	–	7.97	8.57	8.53	7.57	7.43
Heating	Capacity (Max./Nom.)	kW	25.0/22.4	31.5/28.0	37.5/33.5	45.0/40.0	50.0/45.0
		kBtu/h	85.3/76.4	107.5/95.5	127.9/114.3	153.5/136.5	170.6/153.5
	Power Input (Max./Nom.)	kW	5.32/4.57	7.00/5.96	9.15/7.70	10.98/9.30	12.20/10.71
	COP (Max./Nom.)	kW/kW	4.70/4.90	4.50/4.70	4.10/4.35	4.10/4.30	4.10/4.20
	SCOP	–	5.50	4.80	4.89	4.75	4.85
Air Flow Rate		m^3/min	212	212	212	287	287
Sound Pressure Level (Cooling/Heating)		dB(A)	54/57	55/58	55/58	61/62	62/65
Refrigerant	Type	–	R32				
	Pre–charged Quantity	kg	4.0	4.5	5.7	6.0	6.0
Weight	Net Weight	kg	191	192	193	215	216
	Gross Weight	kg	209	210	211	233	234
Dimensions	Net (H × W × D)	mm	1650 × 1250 × 440				
	Packing (H × W × D)	mm	1810 × 1350 × 580				
Cabinet Color		–	Grayish White				
Ref. Piping	Gas	mm	22.2	22.2	25.4	25.4	28.6
		inch	7/8	7/8	8/8	8/8	9/8
	Liquid	mm	9.53	9.53	12.7	12.7	12.7
		inch	3/8	3/8	4/8	4/8	4/8
Connectable Indoor Units	Quantity	pcs	17	21	26	31	34
	Connection Ratio	–	30%–150%				
Piping Design	Total Piping Length	m	500	500	500	500	500
	Max. piping Length	m (Actual)	150	150	150	150	150
		m (Equivalent)	165	165	165	165	165
	Height difference between ODU and IDU	m (ODU Up)	50	50	50	50	50
		m (ODU Down)	40	40	40	40	40
	Height Difference Between IDUs	m	40	40	40	40	40
Operation Range	Cooling	DB	–10~55℃				
	Heating	WB/DB	–25~16.5℃/–24~23℃				

Notes:
1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling Conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m.
Heating Conditions: indoor air inlet temperature: 20℃ DB, outdoor air nlet temperature: 7℃ DB 6℃ WB, pipe Length: 7.5m, pipe height difference: 0m.
2. The above performance data is obtained on the the basis of the performance of this outdoor unit, with a 100%–combination of 4–Way Cassette indoor units.
3. 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: 1m from the service cover surface and 0.92m from the floor level.
4. The final appearance of outdoor units is subject to the actual products.
5. The dip switch DSW1–4 of outdoor PCB must set ON.This value is measured from the air outlet grille of the outdoor unit.
6. Under cooling operation, where the temperature is higher than 52℃, the system may work under intermittent operation.

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

Outdoor Unit



HP			18HP	20HP	22HP	24HP
Model			AVW-170HKDHE2	AVW-190HKDHE2	AVW-212HKDHE2	AVW-232HKDHE2
Combination			AVW-76HKDHE2	AVW-96HKDHE2	AVW-96HKDHE2	AVW-114HKDHE2
			AVW-96HKDHE2	AVW-96HKDHE2	AVW-114HKDHE2	AVW-114HKDHE2
Power Supply			AC 3Φ, 380-415V/50/60Hz			
Cooling	Capacity	kW	50.4	56.0	61.5	67.0
		kBtu/h	171.9	191.0	209.8	228.6
	Power Input	kW	13.5	15.1	16.9	18.6
	EER	kW/kW	3.74	3.70	3.64	3.60
	SEER	kW/kW	8.29	8.57	8.55	8.53
Heating	Capacity (Max./Nom.)	kW	56.5/50.4	63.0/56.0	69.0/61.5	75.0/67.0
		kBtu/h	192.8/171.9	215.0/191.0	235.4/209.8	255.9/228.6
	Power Input (Max./Nom.)	kW	12.3/10.5	14.0/11.9	16.1/13.7	18.3/15.4
	COP (Max./Nom.)	kW/kW	4.59/4.79	4.50/4.70	4.27/4.50	4.10/4.35
	SCOP	kW/kW	5.09	4.80	4.85	4.89
Air Flow Rate		m^3/min	424	424	424	424
Sound Pressure Level (Cooling/Heating)		dB(A)	55/58	55/58	55/58	55/58
Refrigerant	Type	-	R32			
	Pre-charged Quantity	kg	9	9	10	11
Weight	Net Weight	kg	383	384	385	386
	Gross Weight	kg	419	420	421	422
Dimensions	Net (H×W×D)	mm	1650×（1250+1250）×440			
	Packing (H×W×D)	mm	1810×（1350+1350）×580			
Cabinet Color		-	Grayish White			
Ref. Piping	Gas	mm	28.6	28.6	28.6	28.6
		inch	9/8	9/8	9/8	9/8
	Liquid	mm	15.88	15.88	15.88	15.88
		inch	5/8	5/8	5/8	5/8
Connectable Indoor Units	Quantity	pcs	36	40	44	48
	Connection Ratio	-	30%-150%			
Piping Design	Total Piping Length	m	500	500	500	500
	Max. piping Length	m (Actual)	150	150	150	150
		m (Equivalent)	165	165	165	165
	Height difference between ODU and IDU	m (ODU Up)	50	50	50	50
		m (ODU Down)	40	40	40	40
	Height Difference Between IDUs	m	40	40	40	40
Operation Range	Cooling	DB	-10~55℃			
	Heating	WB/DB	-25~16.5℃/-24~23℃			

Notes:
1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling Conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m.
   Heating Conditions: indoor air inlet temperature: 20℃ DB, outdoor air nlet temperature: 7℃ DB 6℃ WB, pipe Length: 7.5m, pipe height difference: 0m.
2. The above performance data is obtained on the the basis of the performance of this outdoor unit, with a 100%-combination of 4-Way Cassette indoor units.
3. 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: 1m from the service cover surface and 0.92m from the floor level.
4. The final appearance of outdoor units is subject to the actual products.
5. The dip switch DSW1-4 of outdoor PCB must set ON.This value is measured from the air outlet grille of the outdoor unit.
6. Under cooling operation, where the temperature is higher than 52℃, the system may work under intermittent operation.

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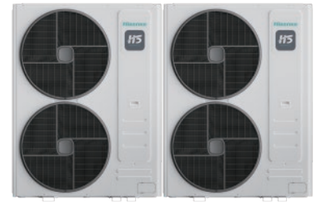
Outdoor Unit



HP			26HP	28HP	30HP	32HP
Model			AVW-250HKDHE2	AVW-272HKDHE2	AVW-290HKDHE2	AVW-308HKDHE2
Combination			AVW-114HKDHE2	AVW-136HKDHE2	AVW-136HKDHE2	AVW-154HKDHE2
			AVW-136HKDHE2	AVW-136HKDHE2	AVW-154HKDHE2	AVW-154HKDHE2
Power Supply			AC 3Φ, 380-415V/50/60Hz			
Cooling	Capacity	kW	73.5	80.0	85.0	90.0
		kBtu/h	250.8	273.0	290.0	307.0
	Power Input	kW	20.7	22.9	24.7	26.5
	EER	kW/kW	3.54	3.50	3.45	3.40
	SEER	kW/kW	7.98	7.57	7.50	7.43
Heating	Capacity (Max./Nom.)	kW	82.5/73.5	90.0/80.0	95.0/85.0	100.0/90.0
		kBtu/h	281.5/250.8	307.1/273.0	324.2/290.0	341.2/307.0
	Power Input (Max./Nom.)	kW	20.1/17.0	22.0/18.6	23.2/20.0	24.4/21.4
	COP (Max./Nom.)	kW/kW	4.10/4.32	4.10/4.30	4.10/4.25	4.10/4.20
	SCOP	kW/kW	4.81	4.75	4.80	4.85
Air Flow Rate		m^3/min	499	574	574	574
Sound Pressure Level (Cooling/Heating)		dB(A)	59/60	61/62	62/64	62/65
Refrigerant	Type	-	R32			
	Pre-charged Quantity	kg	12	12	12	12
Weight	Net Weight	kg	408	430	431	432
	Gross Weight	kg	444	466	467	468
Dimensions	Net (H×W×D)	mm	1650×（1250+1250）×440			
	Packing (H×W×D)	mm	1810×（1350+1350）×580			
Cabinet Color		-	Grayish White			
Ref. Piping	Gas	mm	31.75	31.75	31.75	31.75
		inch	10/8	10/8	10/8	10/8
	Liquid	mm	19.05	19.05	19.05	19.05
		inch	6/8	6/8	6/8	6/8
Connectable Indoor Units	Quantity	pcs	52	56	60	64
	Connection Ratio	-	30%-150%			
Piping Design	Total Piping Length	m	500	500	500	500
	Max. piping Length	m (Actual)	150	150	150	150
		m (Equivalent)	165	165	165	165
	Height difference between ODU and IDU	m (ODU Up)	50	50	50	50
		m (ODU Down)	40	40	40	40
	Height Difference Between IDUs	m	40	40	40	40
Operation Range	Cooling	DB	-10~55℃			
	Heating	WB/DB	-25~16.5℃/-24~23℃			

Notes:
1. Rated cooling capacity and rated heating capacity are tested in the following conditions:
   Cooling Conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m.
   Heating Conditions: indoor air inlet temperature: 20℃ DB, outdoor air nlet temperature: 7℃ DB 6℃ WB, pipe Length: 7.5m, pipe height difference: 0m.
2. The above performance data is obtained on the the basis of the performance of this outdoor unit, with a 100%-combination of 4-Way Cassette indoor units.
3. 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: 1m from the service cover surface and 0.92m from the floor level.
4. The final appearance of outdoor units is subject to the actual products.
5. The dip switch DSW1-4 of outdoor PCB must set ON.This value is measured from the air outlet grille of the outdoor unit.
6. Under cooling operation, where the temperature is higher than 52℃, the system may work under intermittent operation.

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

INDOOR UNITS

Indoor Units Feature Overview

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

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

Remarks: Standard: ● Optional: ○ Incompatible: ×

4-Way Cassette
Mini 4-Way Cassette

Individual Louvers Control

Breeze Mode

Higher Installation

Motion Sensor

Comfort Cooling Mode

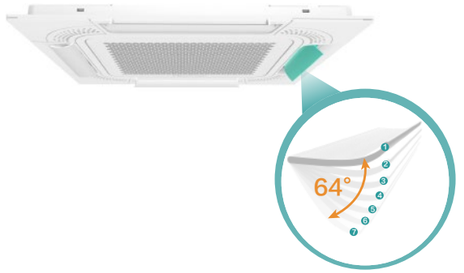
Dry Contact Interlock

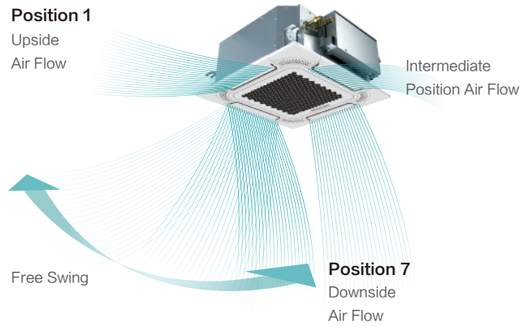
Compact and Classy Design

Fresh Air Intake

Individual Louvers Control

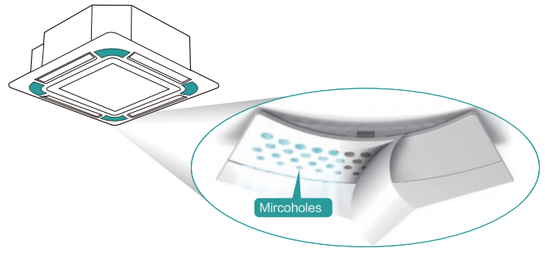
4-way cassette louvers now offer individual control, allowing you to customize airflow direction based on diverse needs, applications, and installation layouts. Each louver has 7 angle settings with a maximum reach of 64° , providing flexibility in directing airflow.





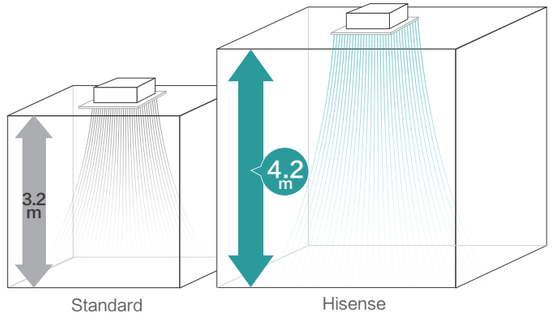
Breeze Mode

Under the newly designed breeze mode, the cool air is gently released through the micro holes in the panel, avoiding direct airflow onto individuals and ensuring a more even and comfortable airflow.



Higher Installation

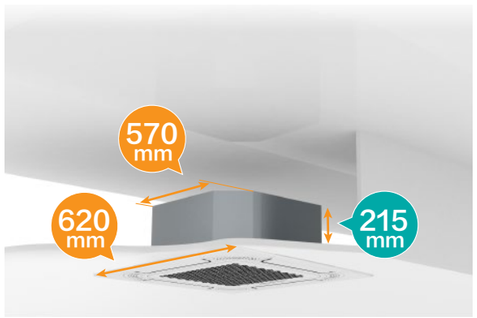
Even at ceiling heights as high as 4.2m, the cassette unit effectively directs airflow downward.



Compact and Classy Design

The 4–way cassette is as slim as 238mm, and the mini 4–way cassette is only 215mm, making them suitable for narrow ceiling spaces. The newly designed panel seamlessly integrates with indoor aesthetics.

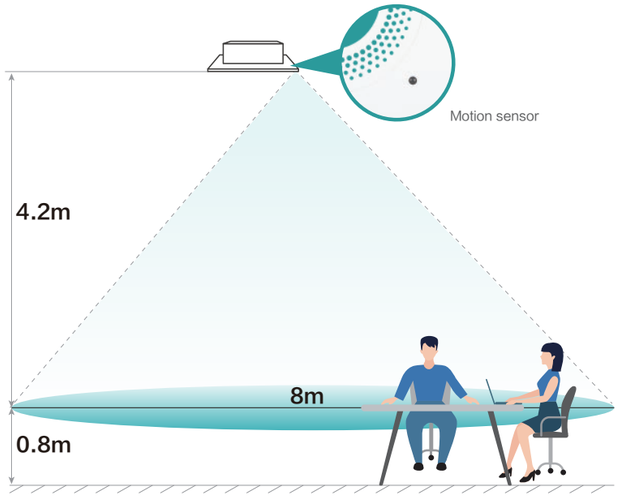
4–way Cassette

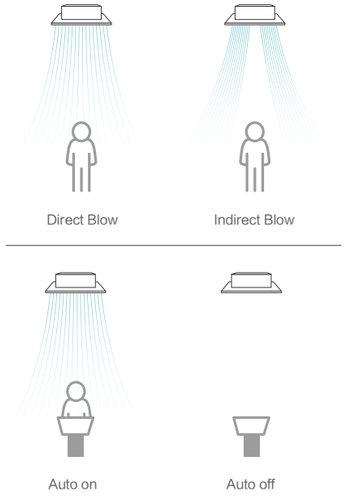


Mini 4–way Cassette

Motion Sensor

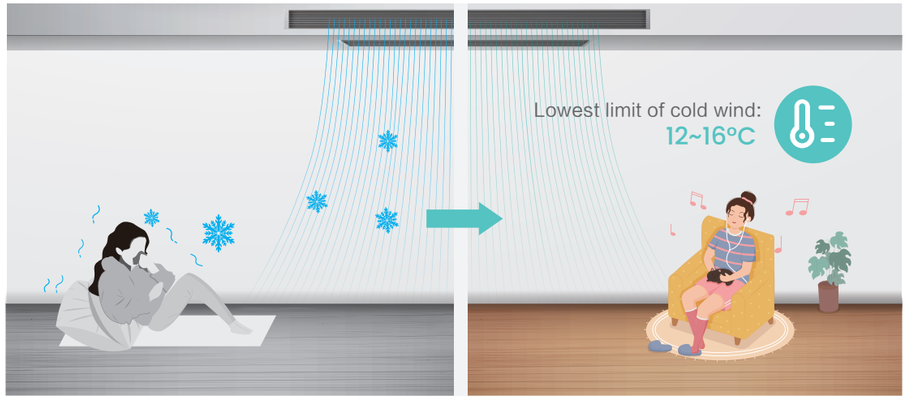
The motion sensor can detect human presence, automatically activating or deactivating the cassette unit and adjusting airflow based on settings configured on the controller. During peak occupancy, the set temperature is automatically adjusted downward, and vice versa, ensuring comfort while optimizing energy consumption as needed.





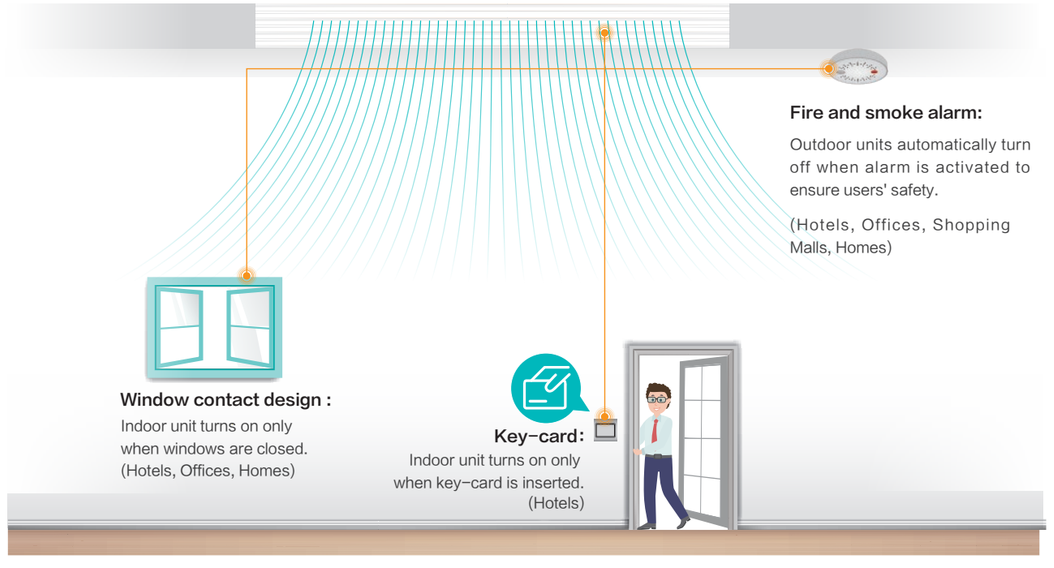
Comfort Cooling Mode

The comfort cooling mode is to provide more soft and gentle air, keeping the room at a comfortable temperture and in a quiet environment.



Dry Contact Interlock

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



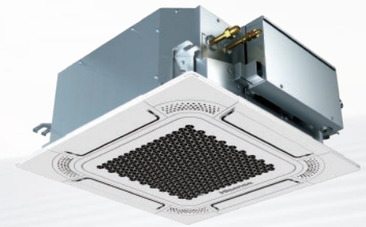
4-Way Cassette

Model			AVBC-09 HJDBA	AVBC-12 HJDBA	AVBC-15 HJDBA	AVBC-19 HJDBA	AVBC-22 HJDBA	AVBC-24 HJDBA	AVBC-27 HJDBA	AVBC-30 HJDBA	AVBC-38 HJDBA	AVBC-48 HJDBA	AVBC-54 HJDBA
Power supply			AC 1Φ, 220V~240V/50Hz/60Hz										
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0
		Btu/h	9,600	12,300	15,300	19,100	21,500	24,200	27,300	30,700	38,200	47,800	54,600
	Heating	kW	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0
		Btu/h	10,900	13,700	17,100	21,500	24,200	27,300	30,700	34,100	42,700	54,600	61,400
Power Input	Cooling	W	20	30	40	50	50	60	70	70	80	130	130
	Heating	W	20	30	40	50	50	60	70	70	80	130	130
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
Air Flow Rate		m^3/min	15.0/12.8/ 12.0/10.8/ 10.0/8.8	17.0/14.0/ 12.8/11.8/ 10.8/9.1	19.0/15.0/ 13.9/12.6/ 11.4/10.5	19.0/15.0/ 13.9/12.6/ 11.8/10.5	26.0/20.0/ 18.3/17.0/ 15.1/13.0	27.0/21.1/ 19.1/18.0/ 15.8/14.7	25.0/21.1/ 19.6/17.9/ 16.1/14.7	25.0/22.3/ 20.3/18.3/ 16.9/15.3	31.0/29.5/ 28.7/26.0/ 23.5/20.5	37.0/33.5/ 29.6/27.2/ 24.2/22.4	37.0/34.0/ 30.7/28.9/ 25.6/23.8
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)										
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		inch	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)
	Condensate Drain	–	O.D. 32										
Weight	Net Weight	kg	20	20	20	20	21	21	23	23	26	26	26
	Gross Weight	kg	24	24	24	24	25	25	27	27	31	31	31
Dimensions	External	H mm	238	238	238	238	238	238	238	238	288	288	288
		W mm	840	840	840	840	840	840	840	840	840	840	840
		D mm	840	840	840	840	840	840	840	840	840	840	840
	Packaging	H mm	292	292	292	292	292	292	292	292	342	342	342
		W mm	945	945	945	945	945	945	945	945	945	945	945
		D mm	945	945	945	945	945	945	945	945	945	945	945
Decoration Panel	Model	–	HPE-GNK1										
	Color	–	Neutral White										
	Body Dimensions	H mm	47	47	47	47	47	47	47	47	47	47	47
		W mm	950	950	950	950	950	950	950	950	950	950	950
		D mm	950	950	950	950	950	950	950	950	950	950	950
	Packaging Dimensions	H mm	100	100	100	100	100	100	100	100	100	100	100
		W mm	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022
		D mm	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022
	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	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0

Notes:

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

Mini 4-Way Cassette



Model			AVC-05HJDBA	AVC-07HJDBA	AVC-09HJDBA	AVC-12HJDBA	AVC-15HJDBA	AVC-17HJDBA	AVC-19HJDBA
Power supply			AC 1Φ, 220V~240V/50Hz/60Hz						
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.0	5.6
		Btu/h	5,100	7,500	9,600	12,300	15,300	17,000	19,100
	Heating	kW	2.0	2.5	3.3	4.2	5.0	5.6	6.3
		Btu/h	6,800	8,500	11,200	14,300	17,000	19,100	21,500
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
Air Flow Rate		m^3/min	7.2/6.5/6.2/5.6	7.2/6.5/6.2/5.6	7.8/7.2/6.5/5.8	7.8/7.2/6.5/5.8	9.3/8.7/7.1/6.7	11.0/9.5/8.7/7.1	12.5/10.8/9.3/8.0
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)						
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		inch	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7
		inch	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)
	Condensate Drain	–	O.D. 32						
Weight	Net Weight	kg	14.5	14.5	14.8	14.8	15.8	15.8	15.8
	Gross Weight	kg	17.3	17.3	17.6	17.6	18.6	18.6	18.6
Dimensions	External	H mm	215	215	215	215	215	215	215
		W mm	570	570	570	570	570	570	570
		D mm	570	570	570	570	570	570	570
	Packaging	H mm	292	292	292	292	292	292	292
		W mm	730	730	730	730	730	730	730
		D mm	668	668	668	668	668	668	668
Decoration Panel	Model		HPE-DNK1						
	Color		Neutral White						
	Body Dimensions	H mm	37	37	37	37	37	37	37
		W mm	620	620	620	620	620	620	620
		D mm	620	620	620	620	620	620	620
	Packaging Dimensions	H mm	115	115	115	115	115	115	115
		W mm	690	690	690	690	690	690	690
		D mm	680	680	680	680	680	680	680
	Net Weight	kg	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	Gross Weight	kg	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Notes:

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

Ceiling Ducted
（DC Low Height）

Installation Friendly

Low Height:192mm

Self-cleaning

Low Noise

ESP 10/30/50Pa

Setback Function

Humidity Sensor

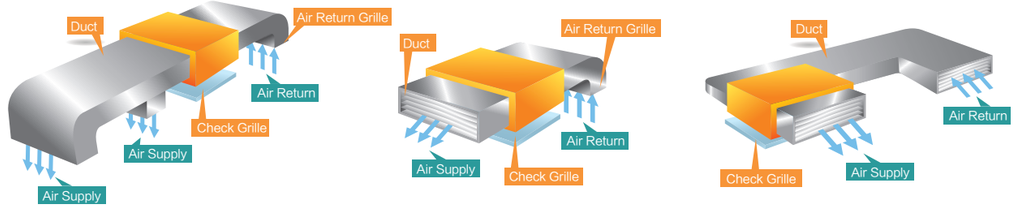
Comfort Cooling Mode

Self-cleaning

The indoor units feature an intelligent self-cleaning function that efficiently clears the heat exchangers without manual intervention, saving your valuable time and cost. It prevents dusts and potentially-harmful substances from accumulating on the surface to ensure clean and healthy air supply.

Installation Friendly

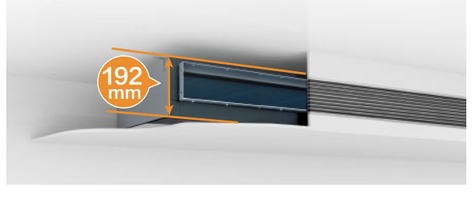
Available air return as rear or bottom entry, consumers can choose relevant air return mode according to the practical installation space.



Ceiling Supply Bottom Return

Side Supply Bottom Return

Side Supply Side Return



Space Saving

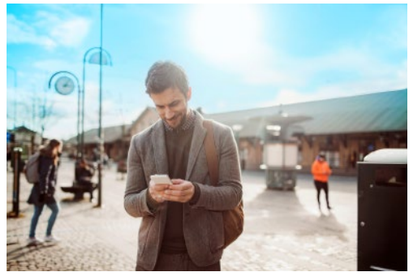
Low-height Ceiling Ducted unit is as slim as 192mm, fitting into the narrowest ceiling spaces. Save ceiling spaces for higher room height without compromising user's comfort and satisfaction.

Low Noise

Embrace the whisper-quiet operation of Hisense ceiling ducted units, where sound levels dip to as low as 21dB (A), softer than a rustling leaf. Our technology redefines your peaceful living by ensuring your comfort is never compromised by unwanted noise.

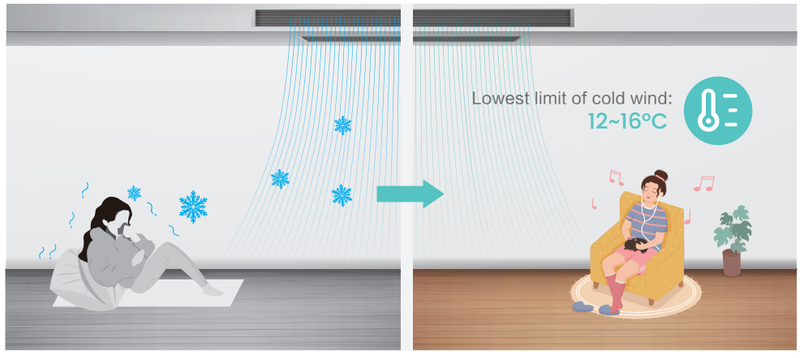
Setback Function

The setback function, designed for when you leave home, includes anti-freezing to maintain indoor temperatures above 8℃ and anti-mold through intermittent dehumidification.



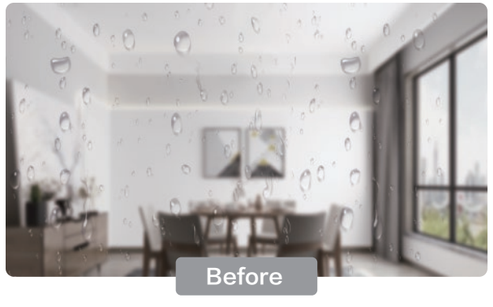
Comfort Cooling Mode

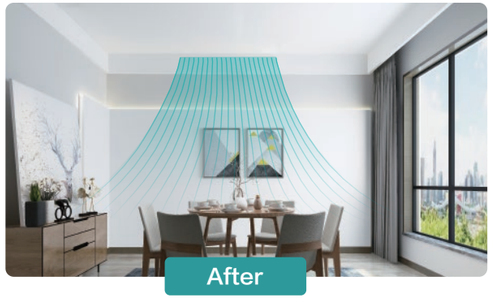
The indoor unit can achieve comfortable cooling by setting a minimum air outlet temperature, and the system will intelligently adjust the operating frequency to ensure that users obtain a comfortable and efficient environment.



Humidity Sensor(Optional)

Dehumidification can be achieved automatically and precisely with humidity sensor, effectively inhibit bacteria growth and create a more comfortable and healthier environment.





Ceiling Ducted (DC Low Height)

Model				AVE-05HJDDH	AVE-07HJDDH	AVE-09HJDDH	AVE-12HJDDH	AVE-15HJDDH	AVE-19HJDDH	AVE-24HJDDH
Power supply				AC 1Φ, 220V~240V/50Hz/60Hz						
Capacity	Cooling		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
			Btu/h	5,800	7,500	9,600	12,300	15,300	19,100	24,200
	Heating		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
			Btu/h	6,500	8,500	11,300	13,600	17,100	21,500	27,300
Power Input	Cooling		W	30	30	50	50	60	60	90
	Heating		W	30	30	50	50	60	60	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	35/32/30/28/25/23	38/36/35/33/31/24
Air Flow Rate			m^3/min	7.0/6.5/6.1/ 5.7/5/3/4.8	7.0/6.5/6.1/ 5.7/5/3/4.8	9.0/8.1/7.3/ 6.7/5.9/5.2	9.0/8.1/7.3/6.7/ 5.9/5.2	12.0/10.8/9.4/ 8.1/6.8/5.5	13.5/12.5/11.2/ 10.0/8.8/7.7	18.0/16.1/14.3/ 12.3/10.5/8.7
External Static Pressure			Pa	10(10~30~50)						
Piping	Connection Type		–	Flare-nut Connection(with Flare Nuts)						
	Liquid		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
			inch	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)
	Gas		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88
			inch	(1/2)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)
	Condensate Drain		–	I.D.32						
Weight	Net Weight		kg	16	16	17	17	20	24	24
	Gross Weight		kg	19	19	20	20	24	29	29
Dimensions	External Dimension	H	mm	192	192	192	192	192	192	192
		W	mm	700	700	700	700	910	1180	1180
		D	mm	447	447	447	447	447	447	447
	Packaging Dimensions	H	mm	270	270	270	270	270	270	270
		W	mm	925	925	925	925	1136	1406	1406
		D	mm	574	574	574	574	574	574	574

Notes:

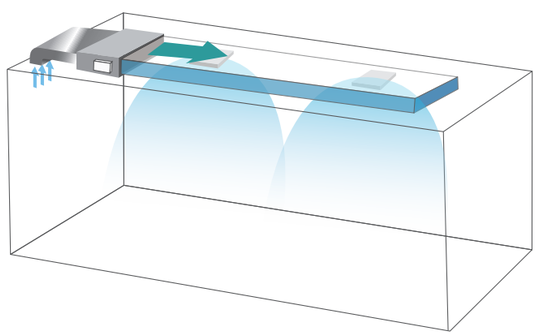
1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27℃ DB (80°F DB), 19.0℃ WB (66.2°F WB)
   Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
   Heating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

Ceiling Ducted
（DC High Static Pressure）

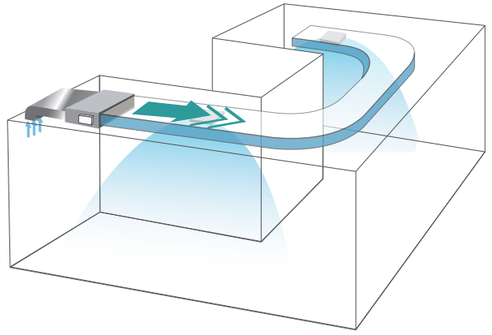
- Auto-adjust ESP
- Comfortable Cooling Mode
- Self-cleaning
- Dry Contact Interlock
- Fresh Air Intake
- Setback Function
- Low Noise
- Precise Temperature Control
- Humidity Sensor
- Main-sub Control

Auto-adjust ESP

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



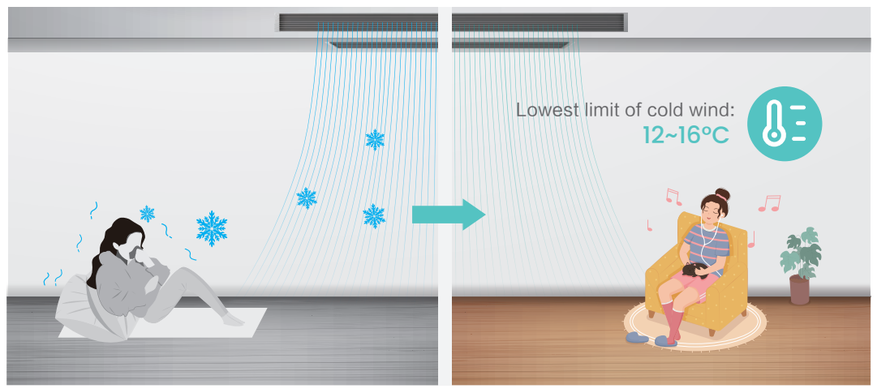
Auto-adjust Low ESP



Auto-adjust High ESP

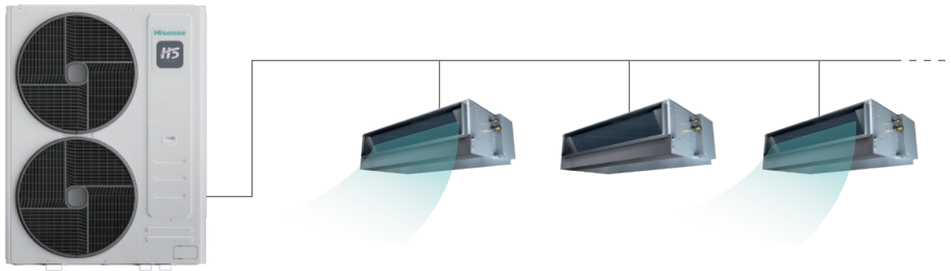
Comfort Cooling Mode

The indoor unit can achieve comfortable cooling by setting a minimum air outlet temperature, and the system will intelligently adjust the operating frequency to ensure that users obtain a comfortable and efficient environment.



Main-sub Control

Thanks to the main-sub configuration, the sub units can automatically align with the main unit's mode setting, temperature setting, or both, once the main unit is set.



Main	Sub	Sub
Cooling	Heating	Cooling
✓	×	✓

Humidity Sensor(Optional)

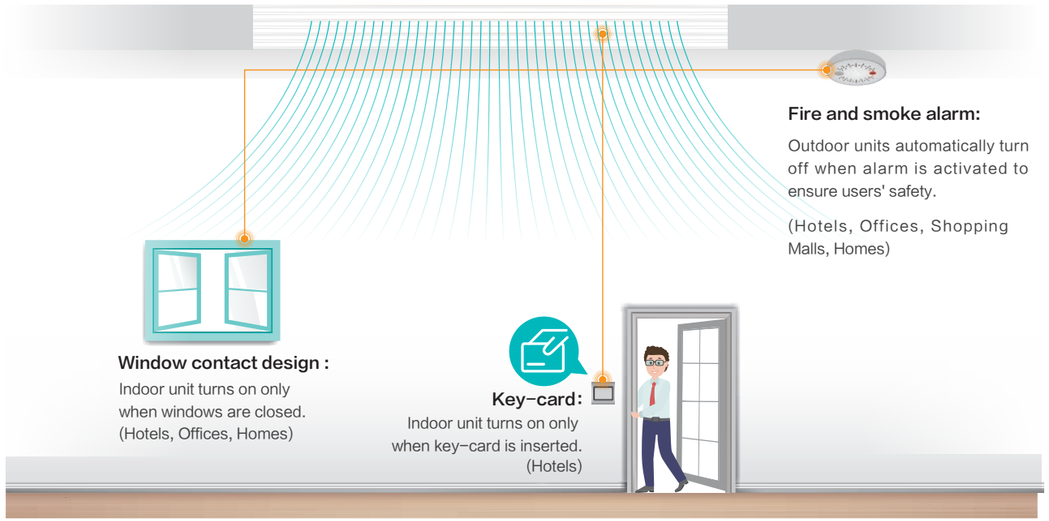
Dehumidification can be achieved automatically and precisely with humidity sensor, effectively inhibit bacteria growth and create a more comfortable and healthier environment.

Before

After

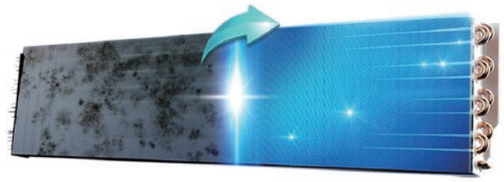
Dry Contact Interlock

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



Self-cleaning Function

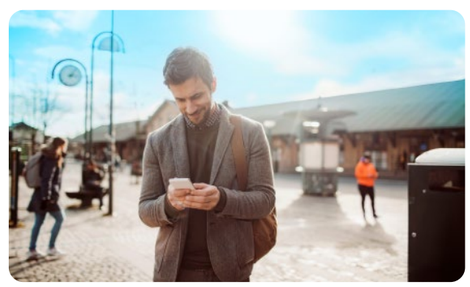
Featured with self-cleaning technology, the evaporator can be self-cleaned automatically just with the tap of a button in the controller, which is very convenient and saves the cost of manual cleaning, while ensuing a clean environment.



3 processes for deep cleaning

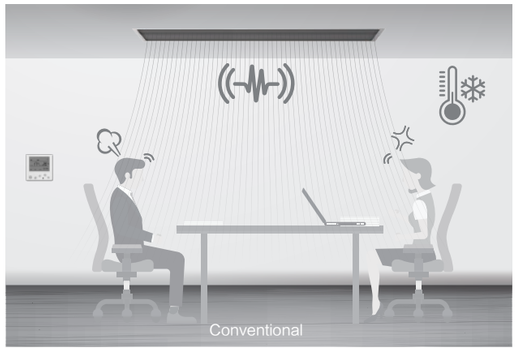
Setback Function

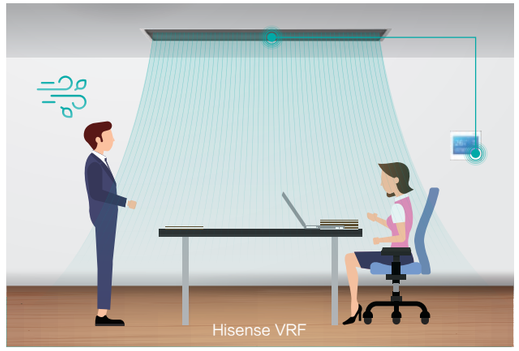
The setback function, designed for when you leave home, includes anti-freezing to maintain indoor temperatures above 8℃ and anti-mold through intermittent dehumidification.



Precise Temperature Control

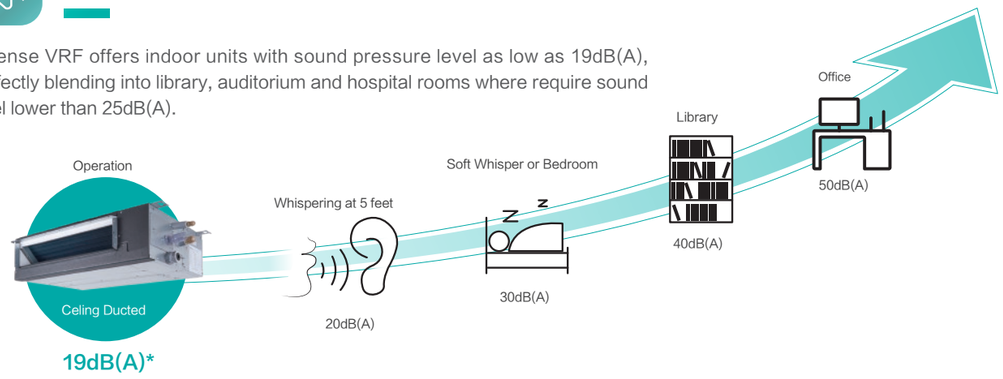
Two temperature sensor are installed into the unit to send real-time signals to the controllers for a more precise temperature control.





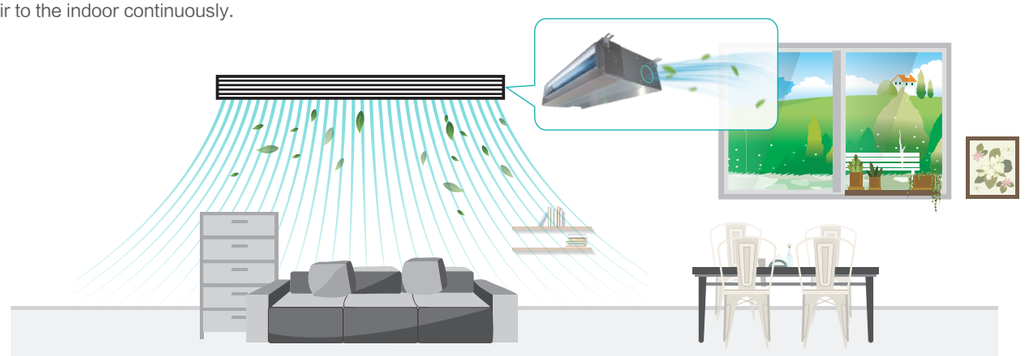
Low Noise

Hisense VRF offers indoor units with sound pressure level as low as 19dB(A), perfectly blending into library, auditorium and hospital rooms where require sound level lower than 25dB(A).



Fresh Air Intake

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



Ceiling Ducted (DC High Static Pressure)

Model			AVD-07 HJDH	AVD-09 HJDH	AVD-12 HJDH	AVD-15 HJDH	AVD-19 HJDH	AVD-24 HJDH	AVD-24 HJDH1	AVD-30 HJDH	AVD-38 HJDH	AVD-42 HJDH	AVD-48 HJDH	AVD-54 HJDH	AVD-76 HJDH	AVD-96 HJDH
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz													
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1	7.1	9.0	11.2	12.5	14.0	16.0	22.4	28.0
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	24,200	30,800	38,000	42,500	48,000	54,500	76,500	95,600
	Heating	kW	2.5	3.2	4.0	4.6	6.3	8.0	8.0	10.0	12.5	14	16.0	18.0	25.0	31.5
		Btu/h	8,500	10,900	13,700	17,100	21,600	27,400	27,400	34,200	42,500	48,000	54,500	61,500	85,300	107,500
Power Input	Cooling	W	40	40	55	55	55	82	74	100	132	180	180	223	610	830
	Heating	W	40	40	55	55	55	82	74	100	132	180	180	223	610	830
Sound Pressure Level		dB(A)	30/27/23/ 21/20/19	30/27/23/ 21/20/19	35/33/32/ 28/26/24	35/33/32/ 28/26/24	33/30/27/ 25/23/22	36/34/31/ 28/24/22	33/31/28/ 25/23/21	34/32/30/ 28/25/22	37/35/31/ 29/26/23	38/36/34/ 31/29/26	38/36/34/ 31/29/26	41/38/35/ 33/30/27	49/48/47/ 46/45/44	53/52/50/ 49/47/45
Airflow Rate		m^3/min	9/8/6.8/ 6.3/5.8/5.3	9/8/6.8/ 6.3/5.8/5.3	12/11/10/ 9/8/7.2	12/11/10/ 9/8/7.2	14.5/13/11.5/ 10.5/9.5/8.7	19/17/15/ 13/11/9.5	20.6/19/17/ 15/13.8/12.5	25/23/21/ 19/17/15	28/25/23/ 21/19/17	35.5/32.5/29.5/ 26.5/23.5/20.5	35.5/32.5/29.5/ 26.5/23.5/20.5	39/35.5/31/ 26.5/23.5/21.8	57/54/52/ 51/49/48	72/68/65/ 61/58/50
External Static Pressure		Pa	30 (30/40/50/60/70/80/90/100/110/120/130/140/150)						50 (50/60/70/80/90/100/110/120/130/140/150/160/170/180/190/200)						150(50~250)	150(50~250)
Piping	Connection Type	–	Flare-Nut Connection(With Flare Nut)												Brazing	
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ22.2 (Φ19.05*1)	Φ22.2
		inch	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	7/8 (3/4*1)	7/8
	Condensate Drain	–	I.D. 32													
Weight	Net Weight	kg	23	23	24	24	30	30	40	40	40	49	49	49	104	104
	Gross Weight	kg	29	29	29	29	37	37	48	48	48	57	57	57	125	125
Dimensions	External	H mm	270	270	270	270	270	270	300	300	300	300	300	300	470	470
		W mm	650+75	650+75	650+75	650+75	900+75	900+75	1100+75	1100+75	1100+75	1400+75	1400+75	1400+75	1250	1250
		D mm	720	720	720	720	720	720	800	800	800	800	800	800	1120	1120
	Packing	H mm	385	385	385	385	385	385	415	415	415	415	415	415	546	546
		W mm	895	895	895	895	1140	1140	1345	1345	1345	1640	1640	1640	1466	1466
		D mm	870	870	870	870	870	870	950	950	950	950	950	950	1345	1345

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:
   Cooling Operation Conditions
   Indoor Air Inlet Temperature: 27° C DB(80° F DB), 19.0° C WB(66.2° F WB)
   Outdoor Air Inlet Temperature: 35° C DB(95° F DB)
   Heating Operation Conditions
   Indoor Air Inlet Temperature: 20° C DB(68° F DB).
   Outdoor Air Inlet Temperature: 7° C DB(45° F DB), 6° C WB(43° F WB)
   Piping Length: 7.5 Meters Piping Lift: 0 Meter
2. The sound pressure level is based on following conditions.
   1.5m below the unit; With 2.0m discharge duct and 1.0m return duct
   The above data were measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. *1: The size of AVD-76* series gas pipe is Φ22.2mm when leaving the factory, and the diameter can be changed to 19.05mm after welding the adapter pipe.

Wall Mounted

DC Fan Motor

6 Fan Speed

Comfort Cooling Mode

AirPure

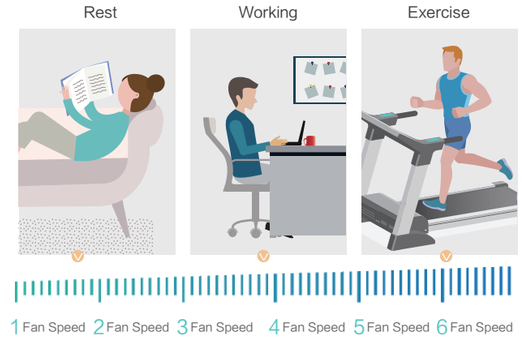
Self-cleaning Function

Setback Function

Easy Installation

6 Fan Speed

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



Easy Installation

Gas and Liquid pipes can be connected when the air conditioner is hung on the wall with unique easy instal lation structure, which is convenient and efficiency, improving the installation efficiency up to 35%.

Note:This feature is available for DJ panel wall-mounted unit.

Standard Wireless Controller

AirPure

AirPure kit is embedded in the unit, which can purify the indoor air, including anti-bacteria and anti-virus,formaldehyde removal, anti-mold, odor removal,PM2.5 purification and anti-allergen. When activate the“Health" icon in the controller, the AirPure will start to work, supplying us clean and health indoor environment.

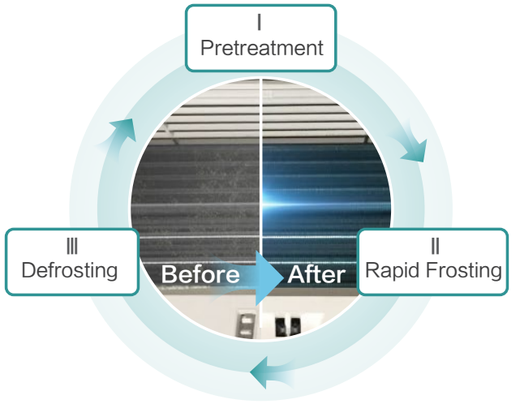
Note: The DJ panel wall-mounted unit is equipped with a built-in air purification kit.

High-efficiency DC Fan Motor

Equipped with a DC fan motor, the unit significantly reduces the power consumption by 60% compared to conventional AC products, ensuring low-cost operation.

Self-cleaning Function

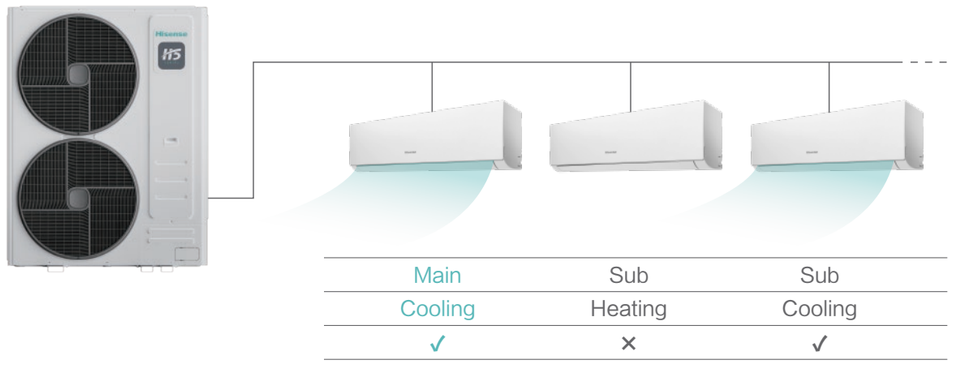
Featured with self-cleaning technology, the evaporator can be self-cleaned automatically just with the tap of a button in the controller, which is very convenient and saves the cost of manual cleaning, while ensuing a clean environment.



3 processes for deep cleaning

Main-sub Control

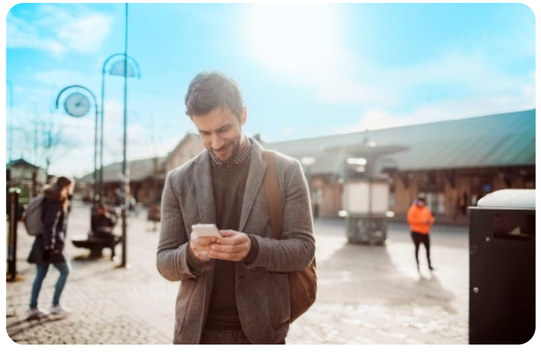
Thanks to the main-sub configuration, the sub units can automatically align with the main unit's mode setting, temperature setting, or both, once the main unit is set.



Main	Sub	Sub
Cooling	Heating	Cooling
✓	×	✓

Setback Function

The setback function, designed for when you leave home, includes anti-freezing to maintain indoor temperatures above 8℃ and anti-mold through intermittent dehumidification.



Wall Mounted

Model			AVS-05 HJDDJ	AVS-07 HJDDJ	AVS-09 HJDDJ	AVS-12 HJDDJ	AVS-15 HJDDJ	AVS-19 HJDDJ	AVS-24 HJDDJ	AVS-28 HJDDJ
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz							
Capacity	Cooling	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.4
		Btu/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200	28,700
	Heating	kW	2.0	2.5	3.3	4.0	5.0	6.3	8.0	8.4
		Btu/h	6,500	8,500	11,300	13,700	17,100	21,500	27,300	28,700
Power Input	Cooling	W	20	20	20	30	20	30	50	80
	Heating	W	20	20	20	30	30	30	70	80
Sound Pressure		dB(A)	33/32/32/30/30/28	36/35/33/32/30/28	36/35/33/32/30/28	38/35/33/32/30/28	38/37/36/32/31/29	40/38/36/35/33/31	45/42/41/38/35/31	50/48/45/41/36/33
Airflow Rate		m^3/min	8.7/8.3/8.2/7.5/7.2/7.0	9.8/9.2/8.7/8.2/7.5/7.0	9.8/9.2/8.7/8.2/7.5/7.0	10.3/9.2/8.7/8.2/7.5/7.0	11.5/11.0/10.3/9.0/8.7/8.0	16.2/15.0/14.2/13.3/12.2/11.5	20.0/18.0/17.0/15.0/13.3/11.7	23.3/22.0/20.0/17.0/14.2/12.2
Panel Colour		–	White							
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)							
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53
		inch	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)
	Gas	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ15.88	Φ15.88	Φ15.88
		inch	(3/8)	(3/8)	(3/8)	(3/8)	(1/2)	(5/8)	(5/8)	(5/8)
	Condensate Drain	–	O.D. 22							
Weight	Net Weight	kg	9.5	9.5	9.5	9.5	13.0	14.4	14.4	14.4
	Gross Weight	kg	13.4	13.4	13.4	13.4	17.8	19.4	19.4	19.4
Demensions	External Dimension	H mm	270	270	270	270	315	315	315	315
		W mm	815	815	815	815	915	1085	1085	1085
		D mm	203	203	203	203	230	230	230	230
	Packaging Dimension	H mm	375	375	375	375	430	430	430	430
		W mm	920	920	920	920	1013	1178	1178	1178
		D mm	310	310	310	310	328	328	328	328

NOTES:

1. The rated capacity is based on the following conditions:
   Cooling conditions: indoor air inlet temperature: 27° C DB, 19° C WB, outdoor air inlet temperature: 35° C DB, pipe length: 7.5m, pipe height diference: 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 diference: 0m.
2. The above noise values are measured in an anechoic chamber so that reflected sound should be taken into consideration during actual operation.
   The above noise values are measured under the fan mode operation, and measured at a point 1m in front of the unit and 0.8m below the unit.

Model			AVS-05 HJDTD	AVS-07 HJDTD	AVS-09 HJDTD	AVS-12 HJDTD	AVS-15 HJDTD	AVS-19 HJDTD	AVS-24 HJDTD	AVS-28 HJDTD
Power Supply			AC 1Φ, 220V~240V/50Hz/60Hz							
Capacity	Cooling	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.4
		Btu/h	5,800	7,500	9,600	12,300	15,400	19,100	24,200	28,700
	Heating	kW	2.0	2.5	3.3	4.0	5.0	6.3	8.0	8.4
		Btu/h	6,500	8,500	11,300	13,700	17,100	21,500	27,300	28,700
Power Input	Cooling	W	20	20	20	30	20	30	50	80
	Heating	W	20	20	20	30	30	30	70	80
Sound Pressure		dB(A)	33/32/32/ 30/30/28	36/35/33/ 32/30/28	36/35/33/ 32/30/28	38/35/33/ 32/30/28	38/37/36/ 32/31/29	40/38/36/ 35/33/31	45/42/41/ 38/35/31	50/48/45/ 41/36/33
Airflow Rate		m^3/min	8.7/8.3/8.2/ 7.5/7.2/7.0	9.8/9.2/8.7/ 8.2/7.5/7.0	9.8/9.2/8.7/ 8.2/7.5/7.0	10.3/9.2/8.7/ 8.2/7.5/7.0	11.5/11.0/10.3/ 9.0/8.7/8.0	16.2/15.0/14.2/ 13.3/12.2/11.5	20.0/18.0/17.0/ 15.0/13.3/11.7	23.3/22.0/20.0/ 17.0/14.2/12.2
Panel Colour		–	White							
Piping	Connection Type	–	Flare-nut Connection(with Flare Nuts)							
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53
		inch	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)
	Gas	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ15.88	Φ15.88	Φ15.88
		inch	(3/8)	(3/8)	(3/8)	(3/8)	(1/2)	(5/8)	(5/8)	(5/8)
	Condensate Drain	–	O.D. 22							
Weight	Net Weight	kg	9.5	9.5	9.5	9.5	13.0	14.4	14.4	14.4
	Gross Weight	kg	13.4	13.4	13.4	13.4	17.8	19.4	19.4	19.4
Demensions	External Dimension	H mm	270	270	270	270	315	315	315	315
		W mm	845	845	845	845	960	1120	1120	1120
		D mm	203	203	203	203	230	230	230	230
	Packaging Dimension	H mm	375	375	375	375	430	430	430	430
		W mm	943	943	943	943	1058	1223	1223	1223
		D mm	310	310	310	310	328	328	328	328

Notes:

1. The rated capacity is based on the following conditions:
   Cooling conditions: indoor air inlet temperature: 27℃ DB, 19℃ WB, outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height diference: 0m.
   Heating conditions: indoor air inlet temperature: 20℃ DB, outdoor air inlet temperature: 7℃ DB, 6℃ WB, pipe length: 7.5m, pipe height diference: 0m.
2. The above noise values are measured in an anechoic chamber so that reflected sound should be taken into consideration during actual operation.
   The above noise values are measured under the fan mode operation, and measured at a point 1m in front of the unit and 0.8m below the unit.

Accessories

Refrigerant Detector

Model	Applicable Models	Picture
HOPT-ERD01	R32 refrigerant systems	

Refrigerant Sensor

Model	Applicable Models	Picture
HOPT-ERD02	R32 refrigerant systems	

Shut-off Box

Model	Applicable Models	Picture
HESE-2V15	R32 refrigerant systems	

Hi-Motion

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

Motion Sensor

Model	Applicable Models	Picture
HPS-MACN	Mini 4-Way Cassette	
HCM-01E	4-Way Cassette	

Fresh Air Duct Adapter

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

Humidity Sensor

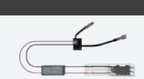
Model	Applicable Models	Picture
HCHR-S01E	4-Way Cassette Mini 4-Way Cassette Ceiling Ducted	

Filter

Filter model	Dimensions (L × W × H) mm	Applicable Models	Picture
HF-56MQE	343 × 343.5 × 15.0	Mini 4-Way Cassette	
HF-160MQE	527 × 513.0 × 17.0	4-Way Cassette	
HF-280L-FE	Filter: 1100 × 432.5 × 20 Frame: 1245 × 463	AVD-76/96HJDH	

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

AirPure Kit

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

Drain Pump

Model	Applicable Models	Power Supply	Picture		
HPS-F133E	AVD-07~24HJDH	220-240V/50/60Hz	 HPS-F133/363E	 HPS-F8103E	 HPS-151#E
HPS-F363E	AVD-24HJDH1 / AVD-30~54HJDH				
HPS-F8103E	AVD-76/96HJDH	220-240V/50/60Hz			
HPS-151#E	All types of indoor units except wall mounted type	220-240V/50/60Hz			

NFC

Model	Applicable Models	Picture
HNFC-EA1	AVW-76~308HKDHE2	

Piping System

Manifold Pipe (For outdoor unit)

Outdoor Unit	AVW-170~232HKDHE2	AVW-250~308HKDHE2
Manifold Pipe	HFQ-M22F	HFQ-M32F

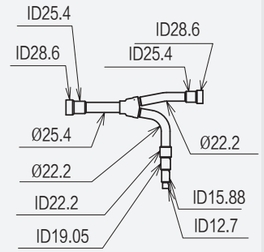
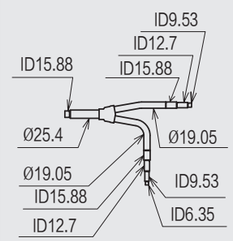
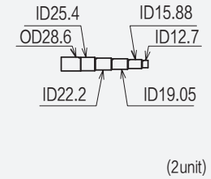
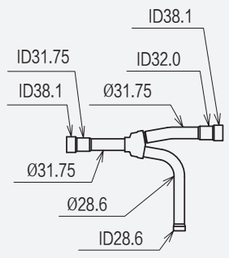
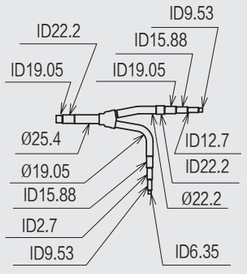
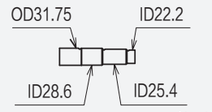
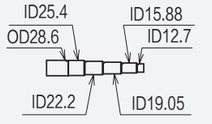
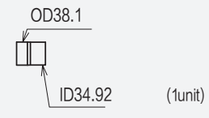
Branch Pipe (For indoor unit)

First Branch Pipe

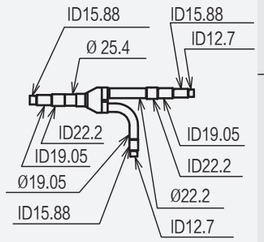
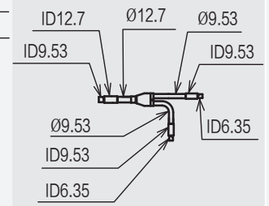
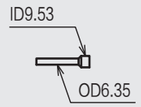
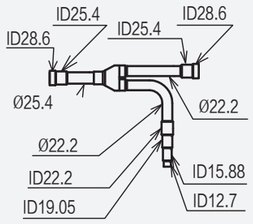
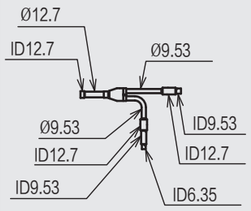
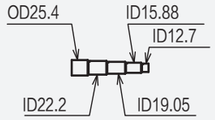
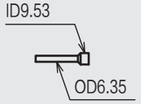
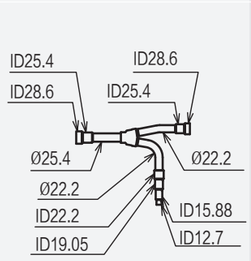
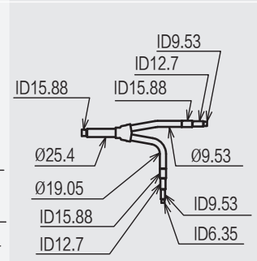
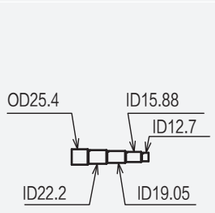
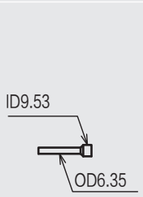
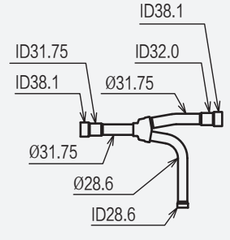
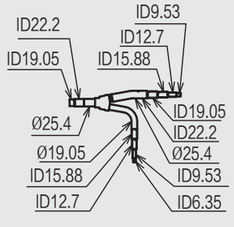
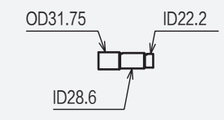
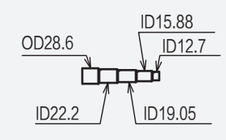
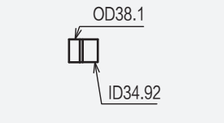
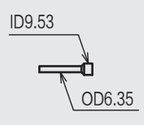
Outdoor Unit HP	8 to 10	12 to 16	18 to 24	26 to 32
Branch Pipe	HFQ-102F	HFQ-162F	HFQ-242F	HFQ-302F

First Branch Pipe~Last Branch Pipe

Total Indoor Unit HP	Q≤6	6<Q≤9	9<Q≤12	12<Q≤16	16<Q≤18	18<Q≤26	26<Q≤34	34<Q≤48
Gas (mm)	HFQ-102F	HFQ-102F	HFQ-102F	HFQ-162F	HFQ-162F	HFQ-242F	HFQ-302F	HFQ-302F
Liquid (mm)	15.88	19.05	22.2	25.4	28.6	28.6	31.75	38.1
Branch Pipe	9.53	9.53	9.53	12.7	12.7	15.88	19.05	19.05

Models	Gas Line	Liquid Line	Reducer for Gas Line	Reducer for Liquid Line
HFQ-M22F			 (2unit)	—
HFQ-M32F			 (1unit)  (1unit)  (1unit)	—

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

Models	Gas Line	Liquid Line	Reducer for Gas Line	Reducer for Liquid Line
HFQ-102F				
HFQ-162F				
HFQ-242F				
HFQ-302F			  	

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