

life **re**imagined

Hisense

Qingdao Hisense Hitachi Air-conditioning Systems Co.,Ltd.

Add:Hisense Information Industry Park 218, Qianwangang Road,
Qingdao Economic Development Zone, China

Tel:+86-532-80879968 Fax: +86-532-80875929

<http://www.hisensehitachi.com>

E-mail: export@hisensehitachi.com



Hisense

COMMERCIAL AIR CONDITIONING

GENERAL
CATALOGUE

2017

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Hisense
to Be with you

📍 Hisense
From Qingdao
China

To Know Hisense

Hisense Group, located in eastern China, is an international comprehensive corporation who wins the 3rd popular TV worldwide and 2nd popular VRF in Chinese market. Since 1969, we always focus on technology, innovation and quality and service. In the coming 2017, with Hisense R&D center, Hisense branch office, Hisense service center, we commit to you the unbreakable product quality, excellent product performance, 24-hour product butler service.

INDUSTRIAL MODULES



GLOBAL NETWORK



SPORTS MARKETING



Official Sponsor of the Australian Open



Title Sponsor of Hisense 300 NASCAR Xfinity Series and Team sponsor of Joe Gibbs Racina



Official Premium Partner of FC Schalke 04



Team Supplier to Red Bull Racing



Official Partner of UEFA EURO 2016



Why Choose Hisense VRF?

High Technology and Outstanding Operation Performance
Comprehensive Product Lineup
Modular Combination Design Gives Greater Flexibility
Higher Space Efficiency
Easier Transportation and Installation
Intelligent Control System

What is Hisense VRF

Hisense VRF is produced by Qingdao Hisense Hitachi Air-conditioning Systems Co., Ltd., who is a joint venture between Hisense Group and Hitachi Appliances Inc, for air-conditioning manufacturing, technology development, marketing and service.

The strict quality control system is the trustworthy guarantee of Hisense VRF. From designing, manufacturing to testing, Hisense VRF insists on abiding by the highest standard to keep high quality.

- ♦ Computer Simulation Development---the Most Advanced and Energy Saving Development Mode
- ♦ Excellence-led Manufacture Mode---Efficiency and Energy Saving
- ♦ Strict Quality Control and Component Test---High Quality, High Efficiency and Low Energy Consumption

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- ♦ High Quality User Experience
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- ♦ Air to Water Heat Pump
- ♦ Indoor Unit
- ♦ Fresh Air Solution

3 CONTROL SYSTEM

- ♦ Wired Controller
- ♦ Wireless Controller
- ♦ Centralized Controller
- ♦ Receiver Kit for Wireless Control-Optional
- ♦ Building Management System

4 OPTIONAL PARTS

- ♦ Optional parts

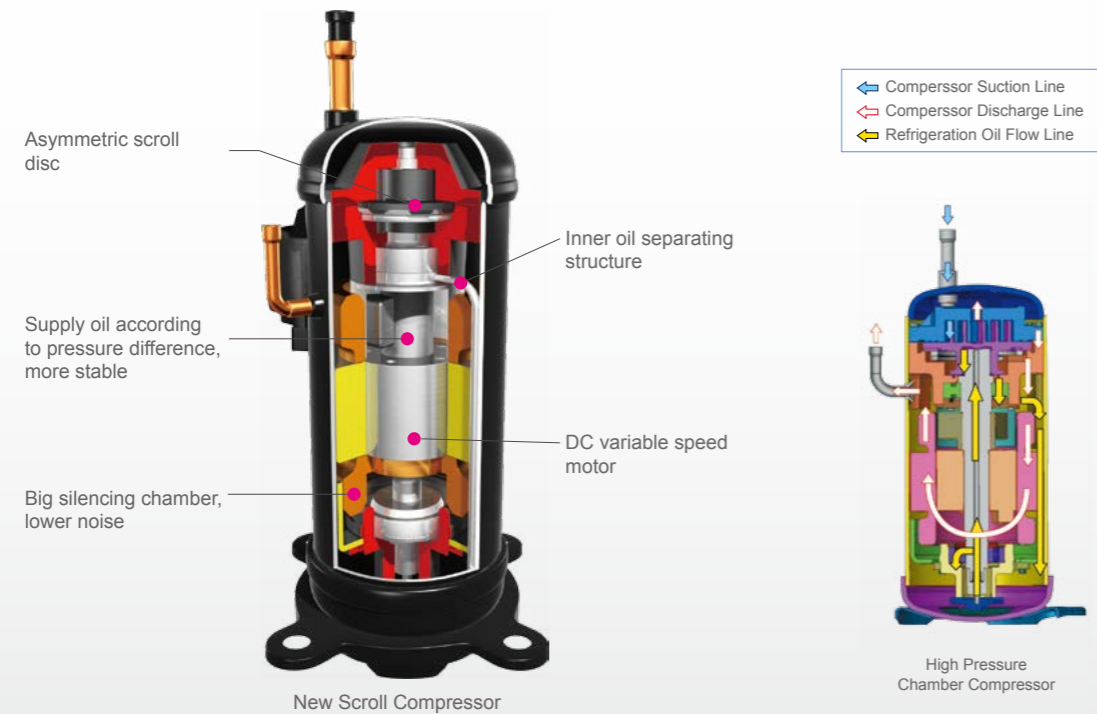


Core Technology

- High efficiency performance
- High intelligence and reliable operation
- High quality user experience
- High flexibility of installation and maintenance

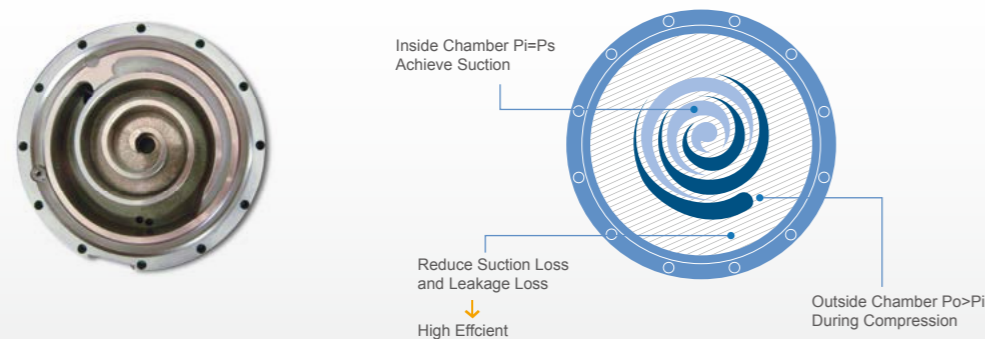
High-pressure-chamber DC Inverter Driven Scroll Compressor

Hisense VRF adopts newest high-pressure-chamber compressor, which provides higher compression ratio, smoother oil supply and lower noise level.



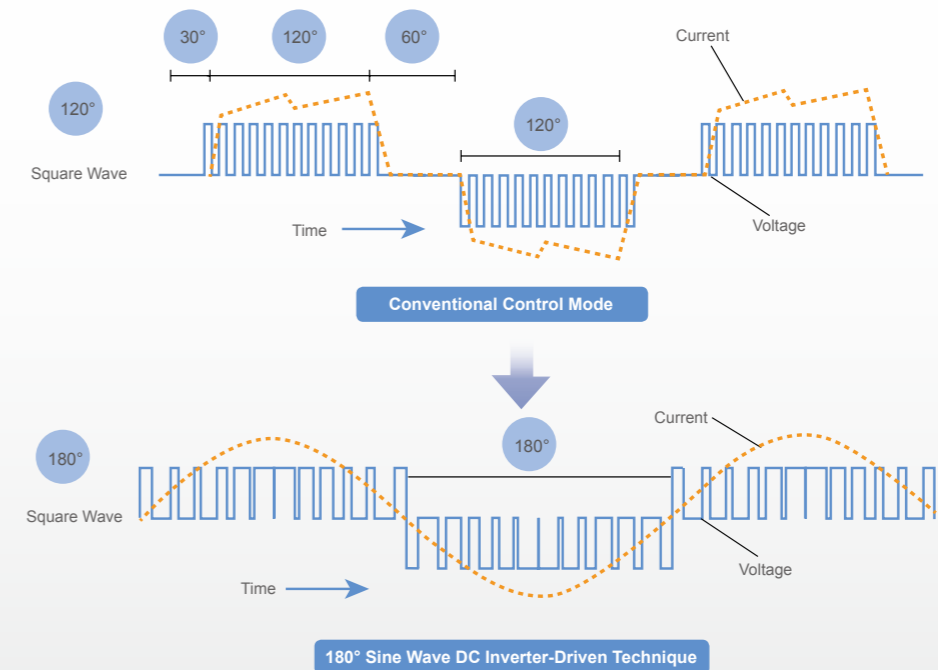
Exclusive Asymmetric Scroll

The asymmetric scroll structure effectively reduces refrigerant gas leakage during suction and compression and enhances operation efficiency and reliability.



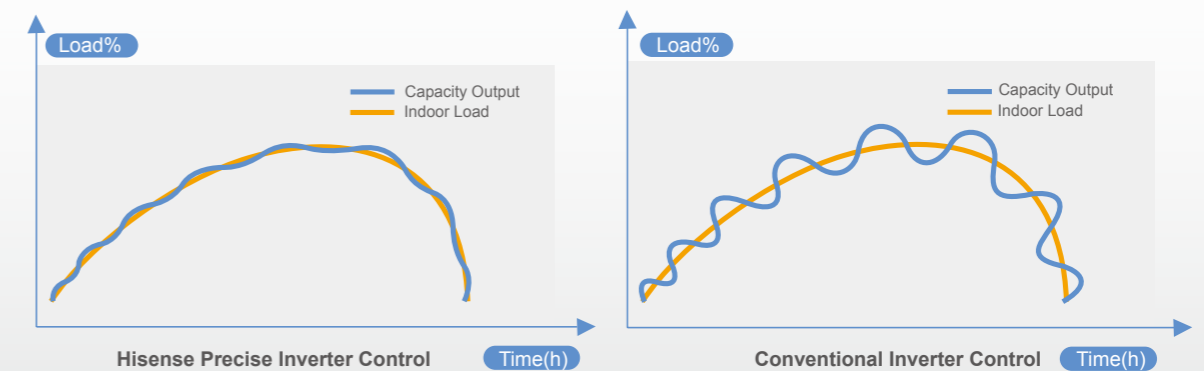
180°Sine Wave DC Inverter-Driven Technique

The 180°sine wave control enables motor to operate smoothly, efficiently, and less noisily.



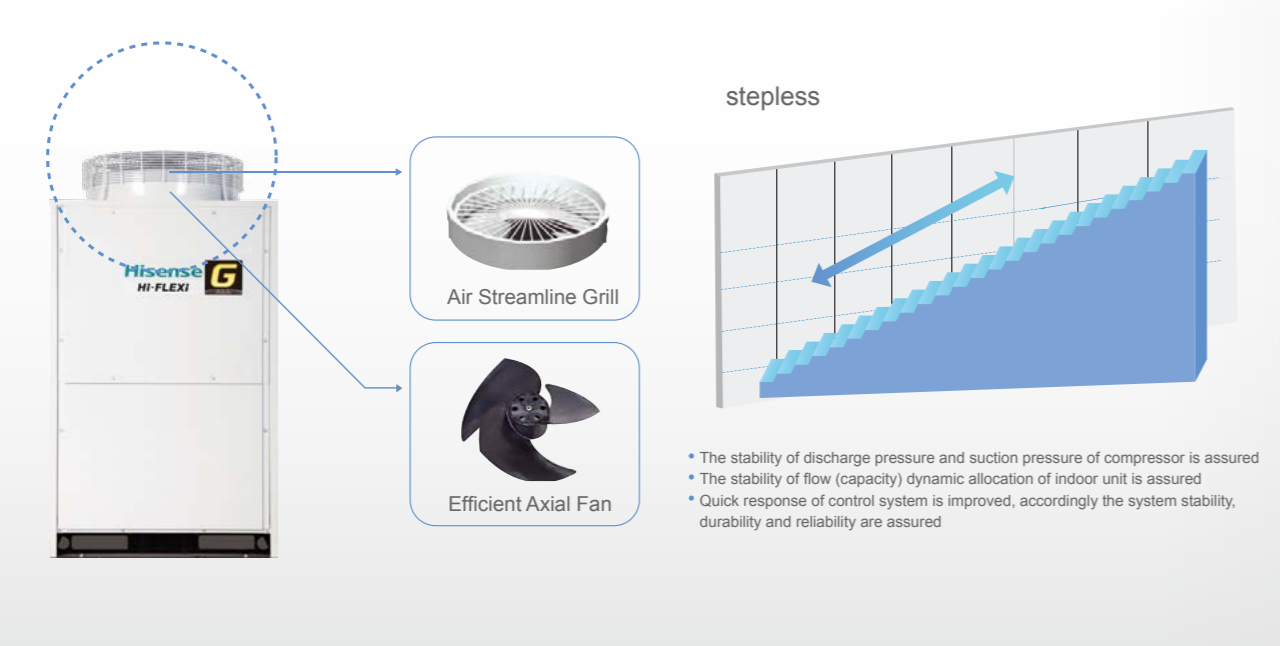
Precise Capacity-output Control

The inverter technique combined with elaborate control algorithm ensures responsive capacity-output adjustment based on real-time indoor load, which reduces temperature fluctuation and provides coziness.



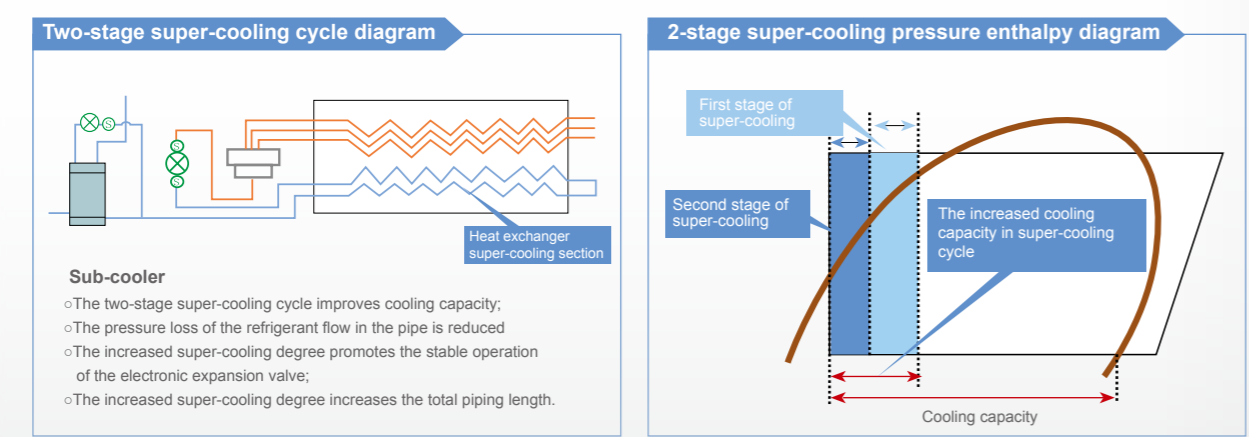
Stepless Fan-speed Control

The BLDC motor equipped in ODU can realize stepless fan-speed adjustment to ensure system efficiency and stability.



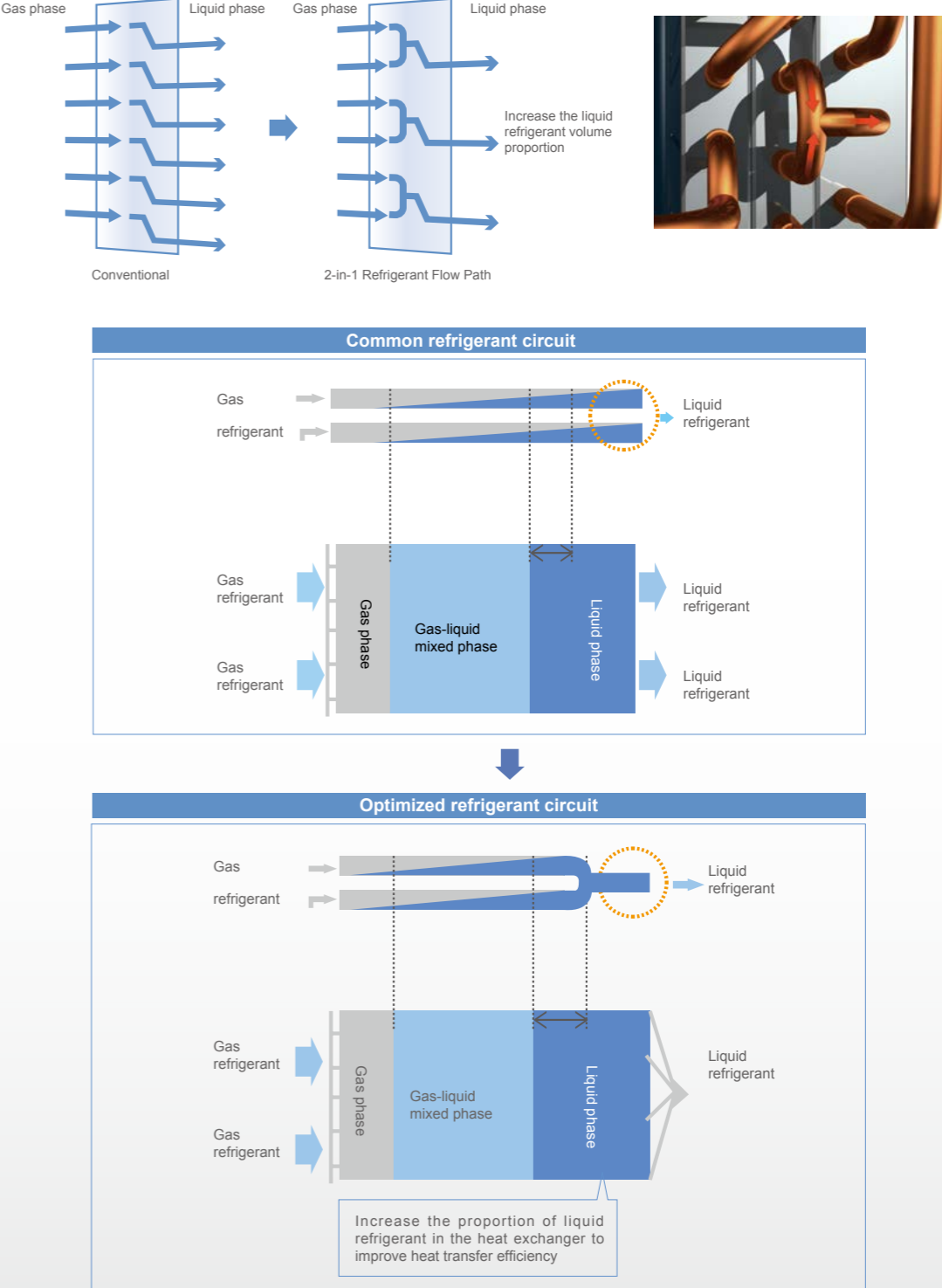
Two-stage Subcooling

A subcooling section is designed in the heat exchanger of ODU to realize the first-stage subcooling. Furthermore, a high efficient double pipe is applied to achieve the second-stage subcooling. The total subcooling degree is up to 27°C , which improves cooling capacity and increases the total piping length.

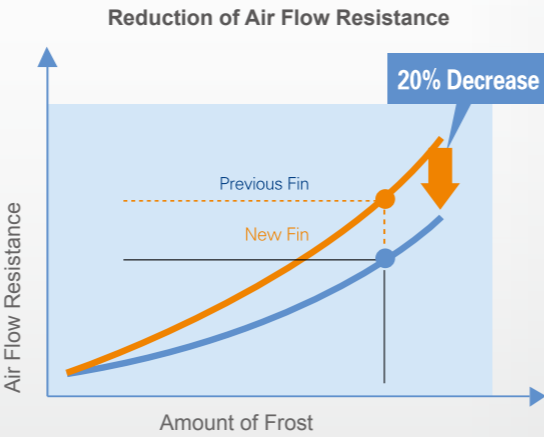
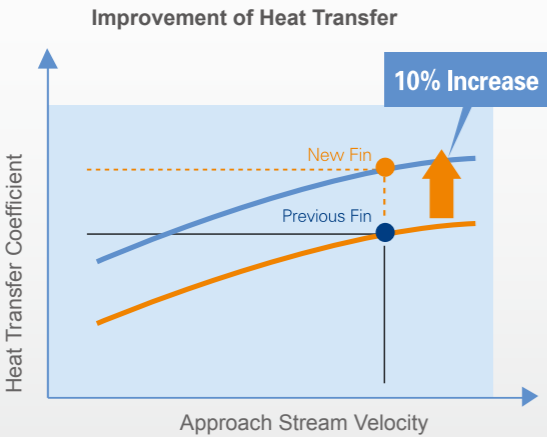
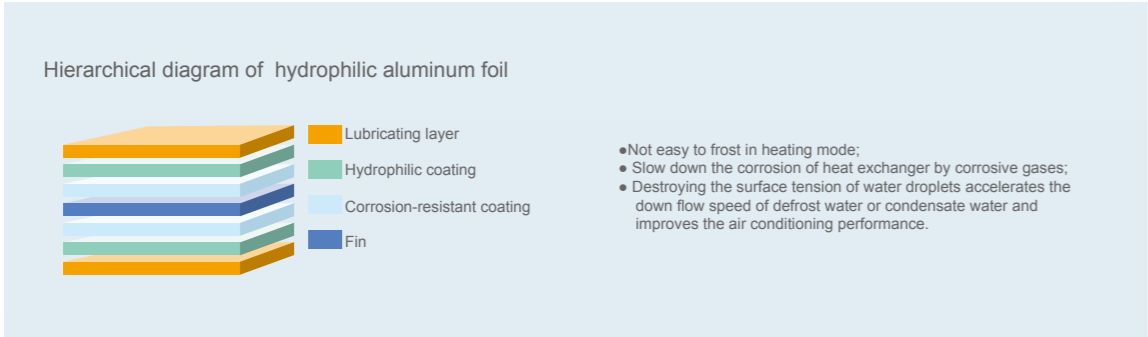
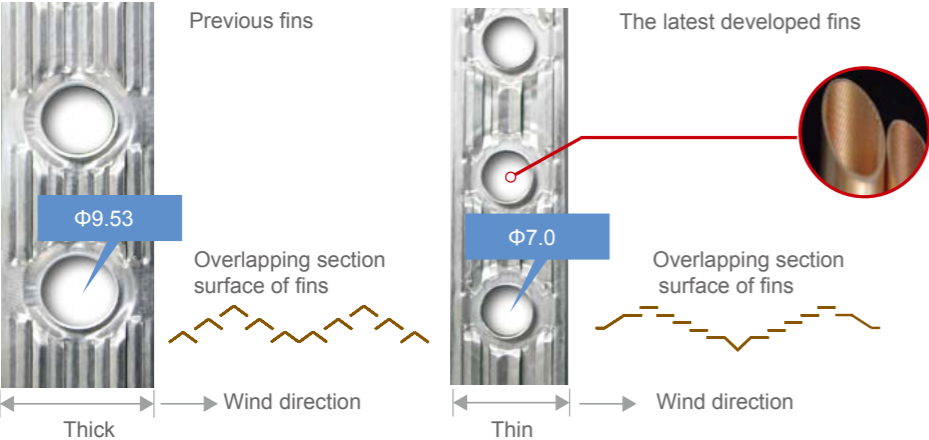


Optimized Refrigerant Circuit

The heat-exchange efficiency is substantially increased due to the specially designed refrigerant flow structure.

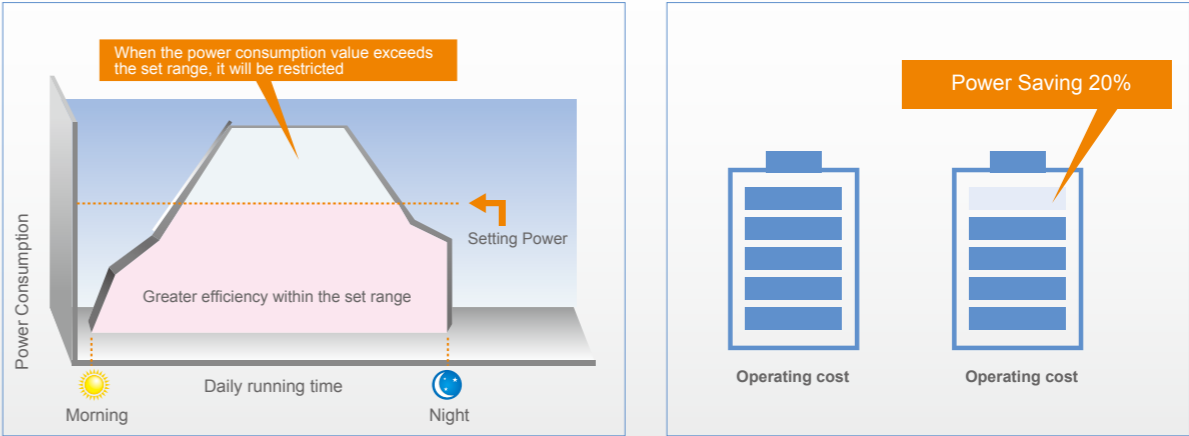


Stepped Fins



Demand Mode

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



Smart Capacity Allocation

Generally, VRF system is more efficient under 40%~75% partial load condition. Therefore, we allocate capacity as evenly as possible to achieve maximum efficiency.



Hisense Hi-FIEXi G Series:

The efficiency will be the highest and the power consumption will be lowest when each module unit is working at 40% - 75% partial load.

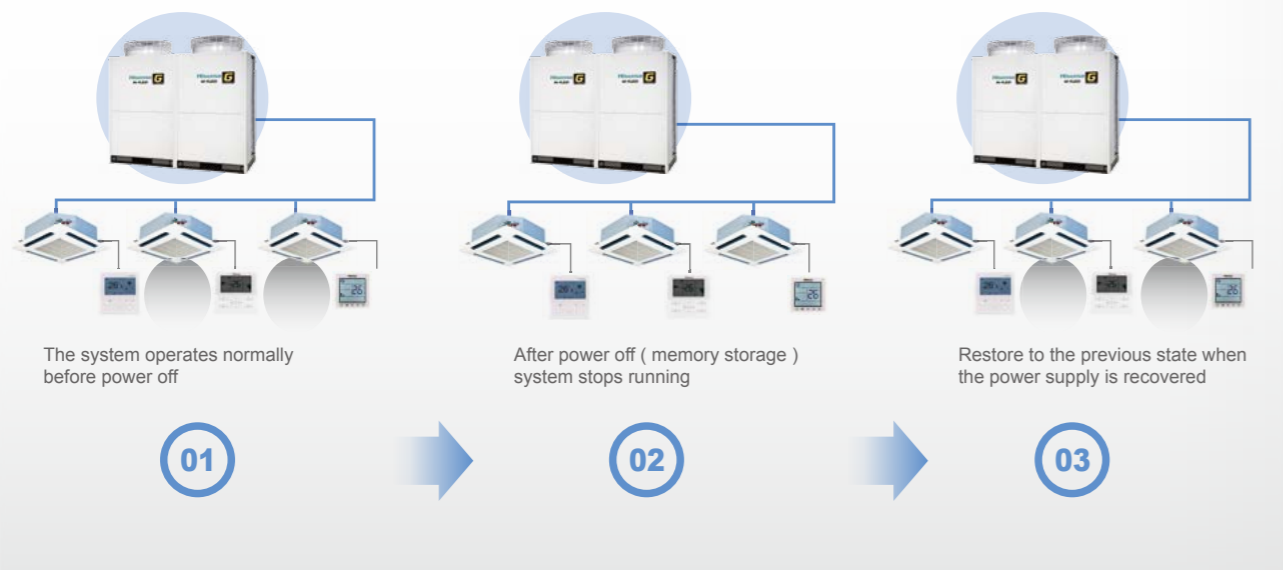
Traditional product:

In normal operation, the module combination is operated at full load + ultra-low load, which influences the service life of units and consumes more power.



| Automatic Restart

The operating data can be recorded in case that power failure occurs. When power resumes, the AC can return to previous setting automatically.



| Rotational Operation

Regulating the operation time of each ODU leads to load reduction on compressors, thus, ODU endurance is improved.



| Double Back-up Function

In single module system, one compressor can start to operate when another fails. In module combination, one ODU can start to operate when another fails. Double back-up function ensures reliability and stability of Hisense VRF system.

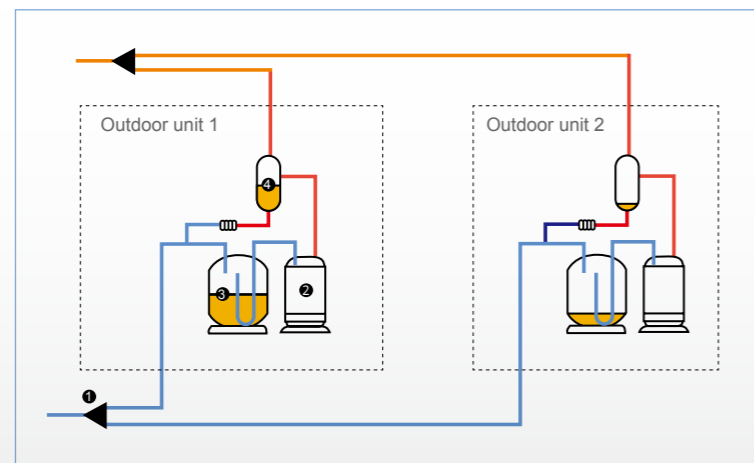


| Oil Return

The accumulator adopts porous oil return technology with a built-in fine strainer, which not only ensures oil balance between compressors within one module, but also plays an important role in the oil balance between modules.

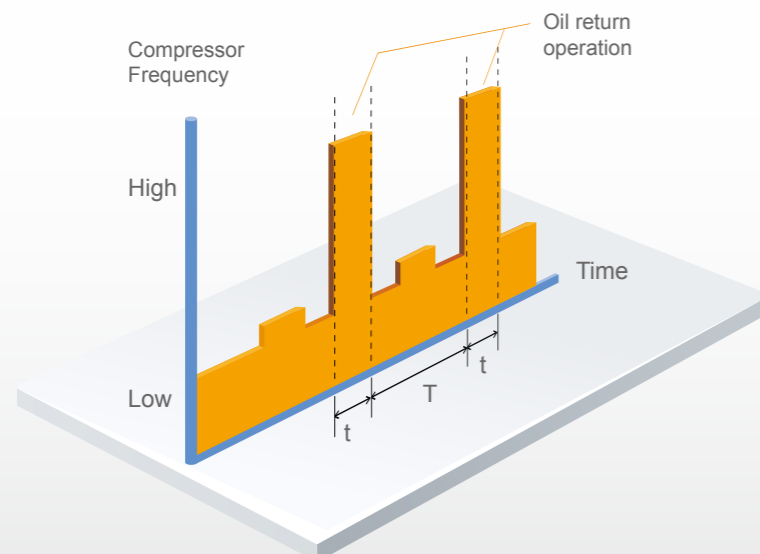


Accumulator



Except for this, the system implements oil-return operation based on compressor frequency and corresponding operation time. The oil-return operation takes 60 seconds, and can return to previous operation state when it's done.

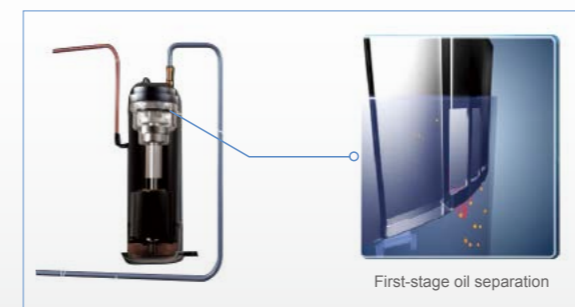
In winter under heating mode, this operation is implemented without changing to cooling, which guarantees heating effect.



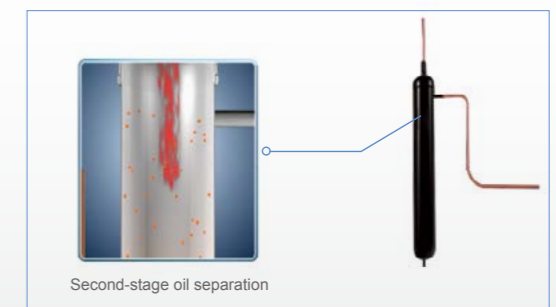
| Oil Separation

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

During second-stage oil separation, the small amount of oil discharged from compressor is separated by a large-capacity, high-efficiency centrifugal oil separator, with efficiency over 99%.



First-stage oil separation



Second-stage oil separation

| Oil Balance

Through adjusting the amount of discharge oil and return oil in the compressor, accumulator and oil separator, oil balance is perfectly achieved without oil balance pipe. This can avoid fluctuations of system pressure and temperature to ensure stability, and simplify the construction work.





| Anti-corrosion

The anti-corrosion treated ODUs have been designed to provide corrosion resistance against acid rain and salt corrosion.



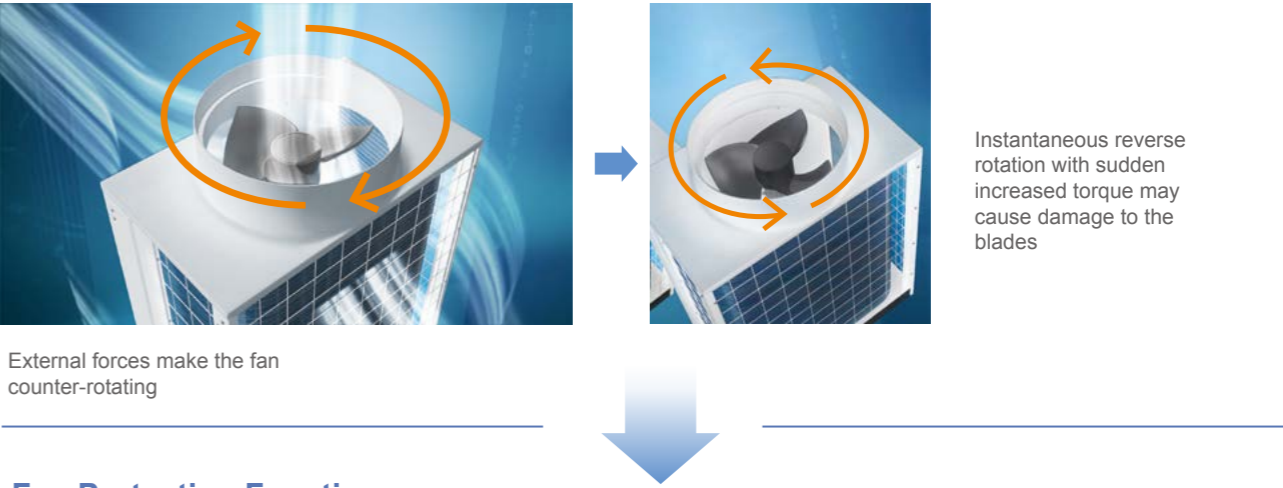
| Condensed Water Leakage Protection

Float switch is a standard part in Hisense IDU. To protect the ceiling from getting wet or soaked, the float switch will work to stop IDU when condensed water can't be drained in time because of blockage in the drain pump or drain pump breakdown.



| Fan Protection

Convention

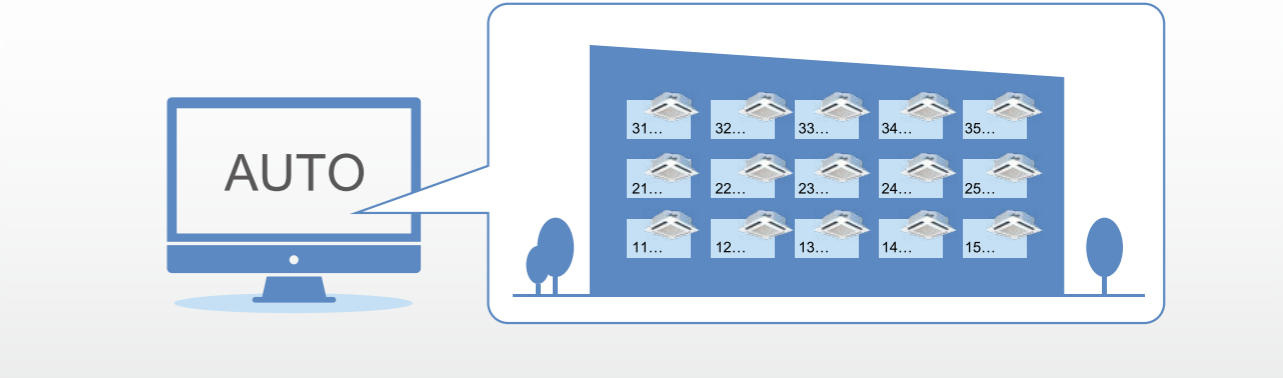


Fan Protection Function



| Automatic Addressing

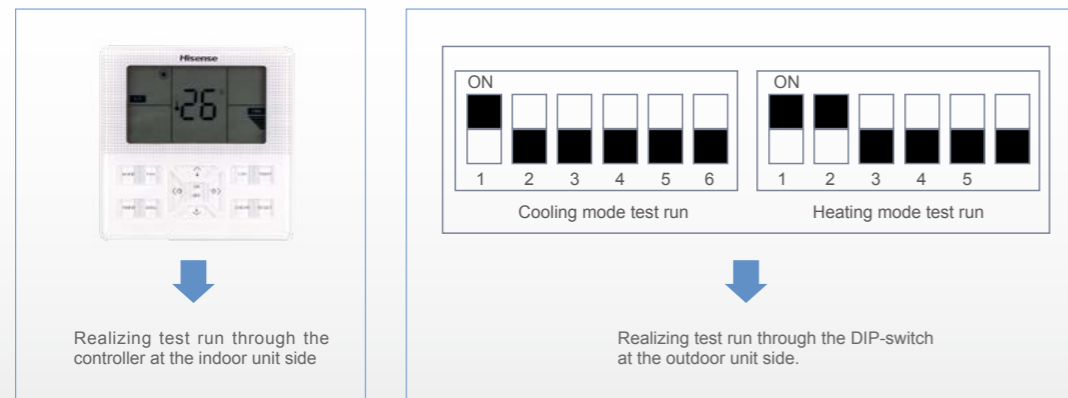
Hisense VRF system can assign IDU addresses automatically, which is convenient in the case of large system with a lot of IDUs.



HIGH INTELLIGENCE AND RELIABLE OPERATION

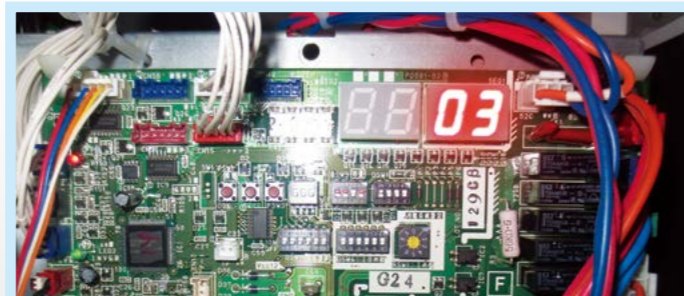
| One-touch Test Run

The one-touch test run can be operated at the ODU side as well as the IDU side, which makes it much easier for commissioning.



| Convenient Inspection

The 7-segment LED on the ODU 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.



| Data Collector

Data collector is designed to quickly and accurately inspect unit operating status.

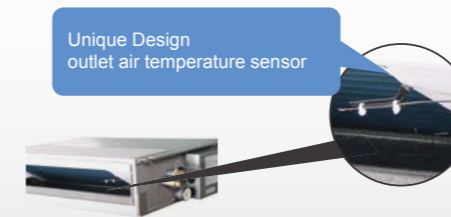


HIGH QUALITY USER EXPERIENCE

Core Technology

| Precise Temperature Control

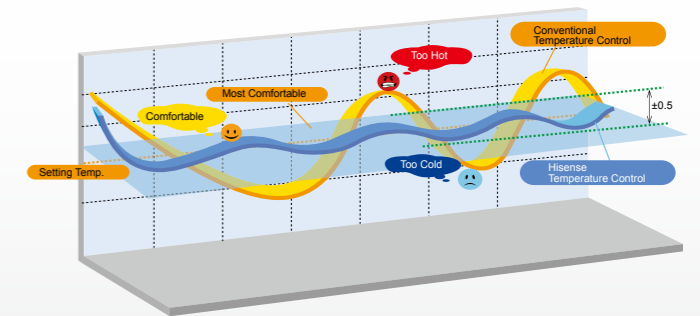
Multiple thermal probes in IDU to provide precise real-time temperature feedback.



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



Room temperature fluctuation within $\pm 0.5^{\circ}\text{C}$.



| Outdoor Unit Noise Control

First-class scroll compressor ensures minimum vibration and noise.



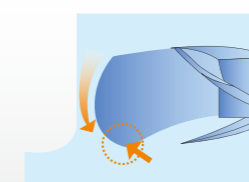
Aluminum-casted motor with non-resonant hanger structure provides stable motor performance and attenuates vibration noise.



The axial fan is made out of noise-absorbing material, which also has a shape that decreases turbulence around.

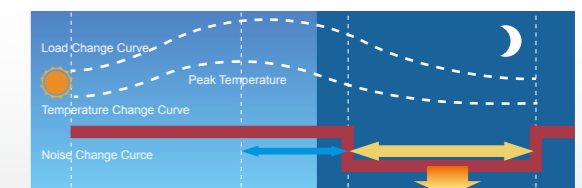


New Blade



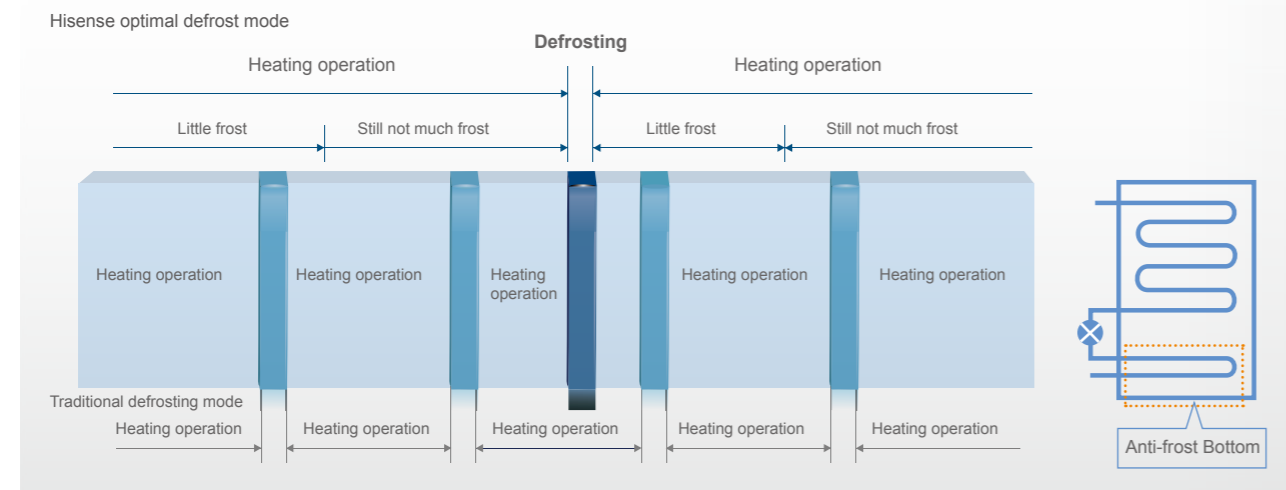
Optimized Radial Airflow Angel

Night-shift function equipped to reduce the noise by up to 15 dB.

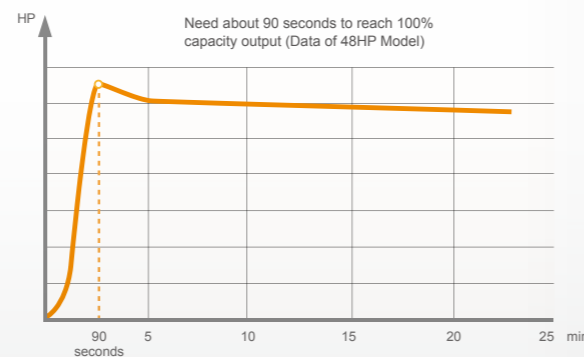




The ODU adopts 3 sensors to precisely grasp the defrosting opportunity. Also, it has an anti-frost structure at the bottom, both of which reduces the amount of frost to only 1/3 compared to ordinary defrosting mode.



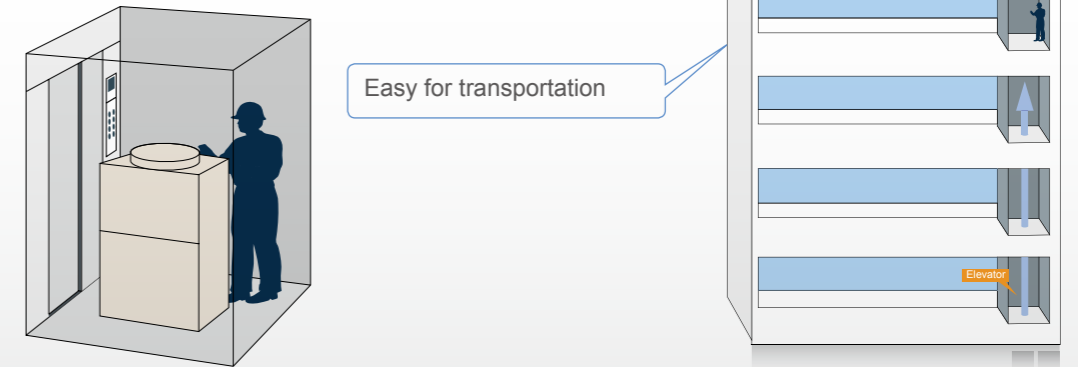
Combining the soft start of DC inverter compressor and rapid start of fixed speed compressor, the system can achieve 100% heating capacity output instantly to meet the air conditioning demand.



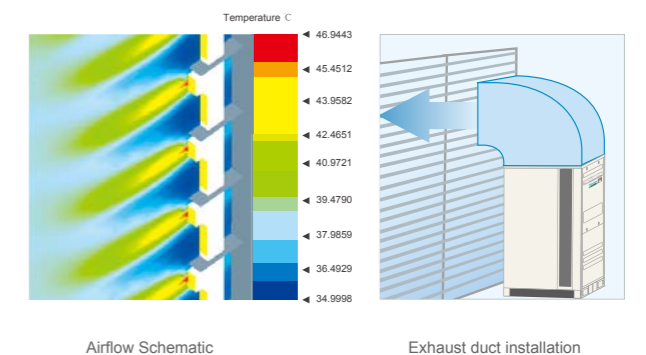
Hisense VRF system can introduce outdoor fresh air into indoor space through fresh air equipment such as all fresh air indoor unit and heat recovery ventilator, which constantly supplies fresh air and creates a healthy environment for users.



Hisense VRF adopts reliable eco-friendly refrigerant R410A, which is non-toxic to human and does not damage the Earth's ozone layer. Also, we actively respond to Europe RoHS directive, controlling the use of hazardous substance strictly.



By using exhaust duct, short circuit of return air can be avoided with long air exhaust distance, which ensures good ventilation and heat transfer effect of ODU.



A blurred background image showing two people in business attire (blue shirts and ties) sitting at a table, writing on notepads with pens. The focus is on their hands and the writing instruments, with the rest of the scene out of focus.

Product Line

- Outdoor Unit
- Air to Water Heat Pump
- Indoor Unit
- Fresh Air Solution

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Hi-FLEXi G+ Series



Hisense G+ series is the latest larger capacity full DC inverter-driven multi-split central air conditioning product. It's focus on the customers' requirements and comfort, representing Hisense high quality and technology. It's characterized by:

Latest enhanced capacity series:

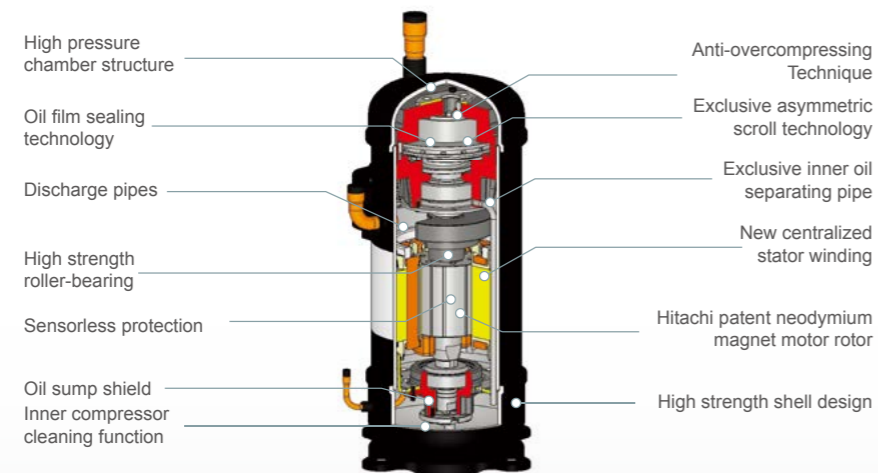
- Brand new high-pressure chamber scroll compressor
- Integrated high-strength structure and convenient installation
- Adoption of double larger fans and low-pressure loss heat exchanger
- Max.22HP single unit, 4 modules' combination



Upgraded Core Technology

New Hitachi high-pressure chamber scroll compressor, enhancing the efficiency

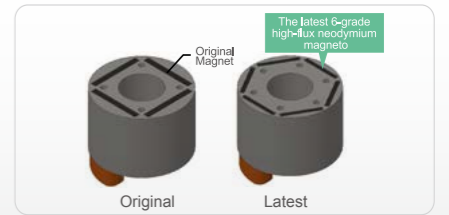
Adoption of the brand new high-pressure chamber scroll compressor realizes high efficiency of motor, optimization of scroll plate and optimum fuel feeding, etc. and increases operation efficiency of compressor under overall operating conditions, especially, enhances intermediate performance greatly.



Motor is the source of power of a compressor. G+ series compressor is equipped with a new DC motor (with centralized winding) which enhances performance of the compressor significantly at a frequency of 20-80Hz that the compressor operates at most frequently.

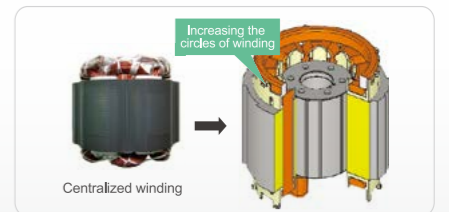
6-pole high-flux neodymium magnetic motor rotor

Motor rotor of the new type compressor uses the latest 6-grade high-flux neodymium magneto structure, rotor shape design is optimized and all rotational speed control is more efficient;



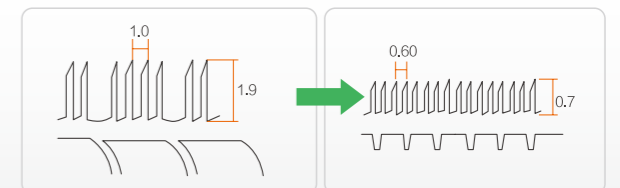
New improved concentrated stator winding

The new type motor stator is equipped with a centralized winding and more turns of windings, sets induced voltage to a higher value (to reduce current) and improves efficiency of motor at low rotational speed.



Improved super-cooling

The optimization of finned tubes, increasing of fins number and reducing of height on the basis of traditional secondary super-cooler reduces its pressure loss, increases coefficient of heat conduction and improves super-cooling performance.



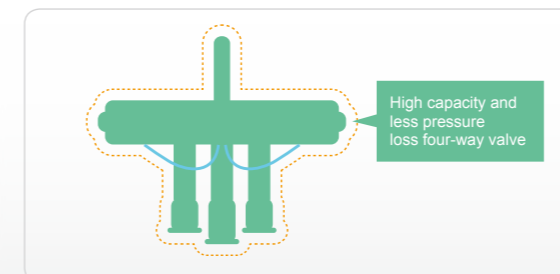
High-precise multiple electronic expansion valves control technology

The multiple high-precision electronic expansion valves equipped on the outdoor unit can adjust refrigerant flow of the unit rapidly and accurately according to commands, reduce power consumption during operation, improve energy efficiency and reduce fluctuation of indoor temperature, thus making the environment more comfortable and pleasant.

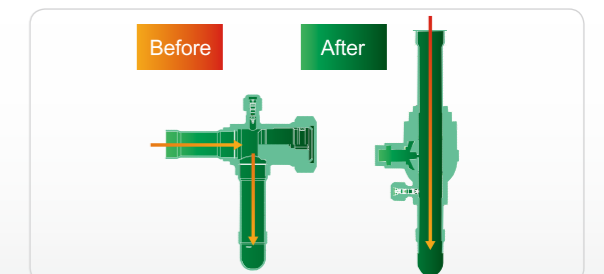


Optimization of the four-way valve

Adoption of the new type high-capacity four-way valve reduces compression at four-way valve greatly, ensures suction intensity of compressor and improves performance of the complete machine.



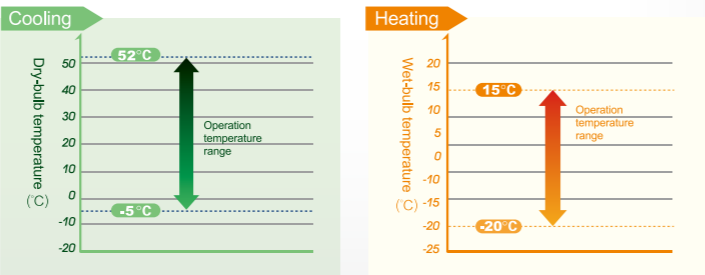
The brand-new ball check valve, in which there is almost no part hindering fluid flow and thus the local pressure loss is improved significantly, enhances efficiency of the whole system.



Wide Operation Range

The Hisense G+ series can operate within a wide temperature range. The lowest temperature of heating operation is -20°C , that insures the heating capacity in winter.

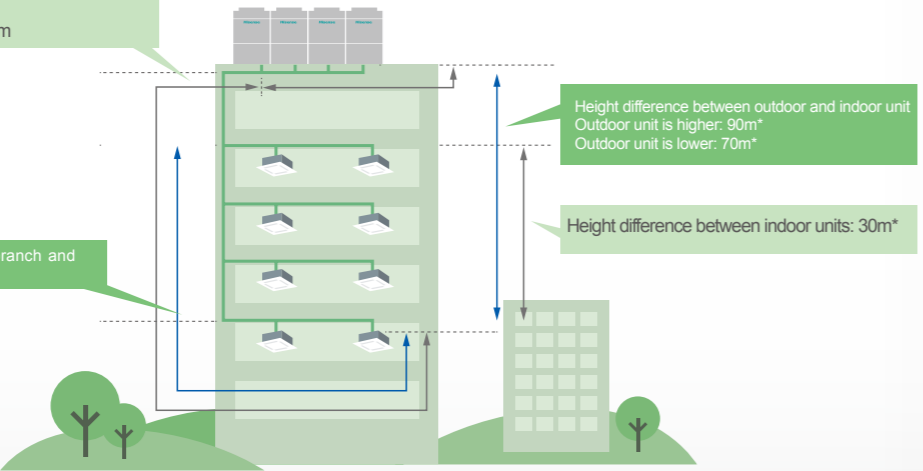
Note: when the cooling operation temperature is over 43°C , please contact with our professional engineer.



More Flexible Refrigerant Piping Work

Max. piping length: 190m*
Max. total piping length: 1000m

Max. piping length between 1st branch and indoor unit: 90m

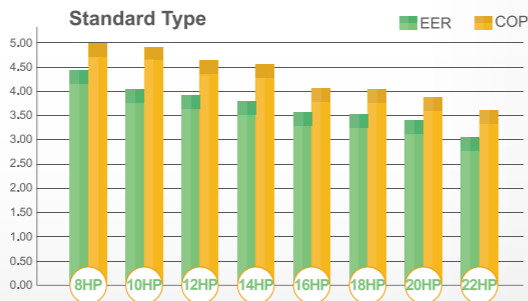


Note: For data marked by ※, please contact with our engineer.

New-efficiency

The Hisense G+ series adopts new structure and advanced technology, providing new High efficiency combination solution.

	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP
EER	4.48	4.03	3.87	3.77	3.57	3.48	3.41	3.06
COP	5.00	4.96	4.65	4.54	4.07	4.01	3.84	3.61



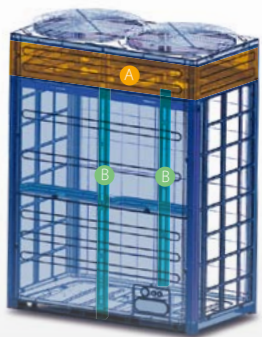
New Appearance

The built-in design of PP air duct ensures safety of inner core effectively

Combination of the integrated sheet-metal upper cover and protecting wire net structure realizes built-in design of PP air duct with optimal protection performance, effectively protecting important parts (e.g. fan) from being damaged when the machine falls from high altitudes.

A High strength motor bracket, more stable and quiet, smaller amplitude

B High strength frame structure with inside upright column

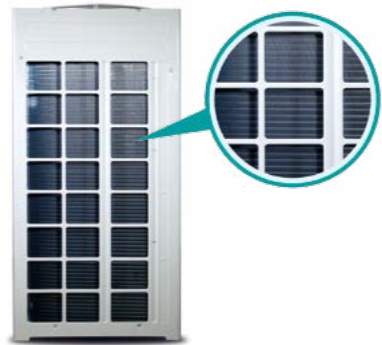


Integrated high-strength side plate decreases vibration and reduces noises

Compared with the form combining stand column with wire net, Hisense G+ series is equipped with integrated high-strength side plates made from high-quality materials, which increases air handling area and reduces the vibration and noises produced during operation of the machine.



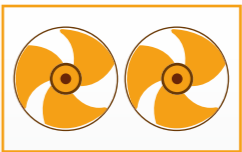
Common air conditioner



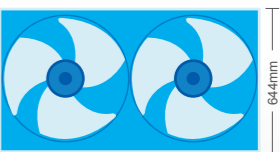
Hisense G+ series

The 644mm large dual-fan leads the industry

Hisense G+ series (20-22HP) is equipped with 644mm×2 large fans characterized by low noise and large air flow, greatly improving heat exchange efficiency of heat exchanger.



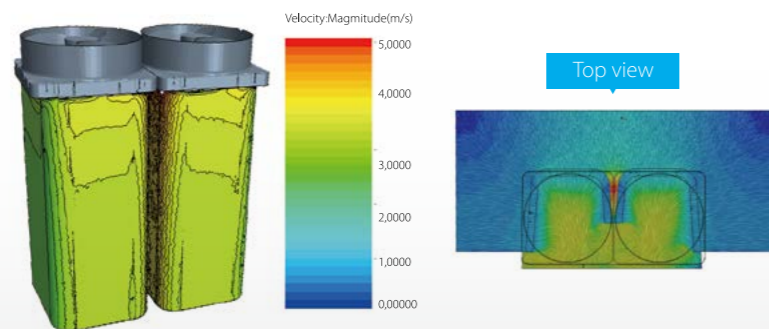
Common double fans
diameter: 540mm



Hisense double large fans
diameter: 644mm

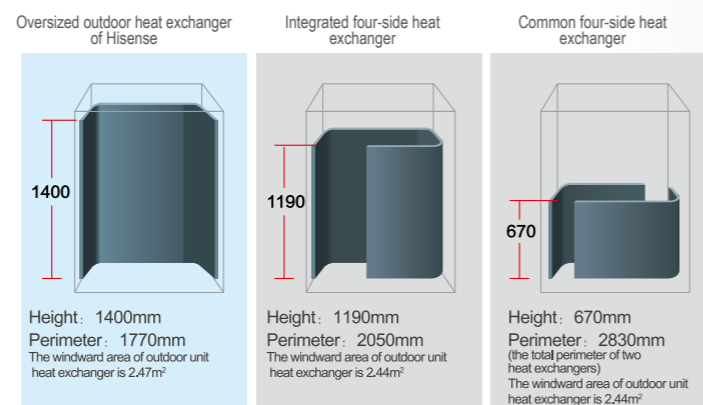
6-side heat exchanging of low pressure-loss Σ type heat exchanger

The low pressure-loss Σ type heat exchanger is structurally designed with a 6-side heat exchange structure and dual-fan, which realizes more uniform distribution of heat exchanger's wind field gradient under the same air-flow conditions, and improves heat-exchanging efficiency of heat exchanger. Meanwhile, higher height, larger heat exchange area and low pressure-loss optimization of flow in bypass branch of the heat exchanger itself improves heat-exchanging efficiency of refrigerant and ensures strong heat-exchanging performance of the complete machine.



Oversized outdoor heat exchanger

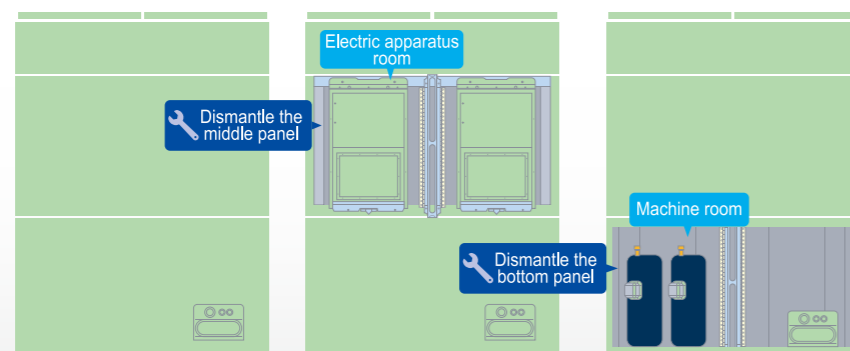
For the oversized outdoor heat exchanger of Hisense, the heat exchanger is characterized by larger face area and better heat-exchanging efficiency. Meanwhile, it reserves more space for arrangement of piping of refrigerating system and heat exchanger distribution pipe, thus ensuring better maintainability.



Note: the 96 type outdoor unit is taken as an example

Separation of machine room and electric room makes maintenance more convenient.

In the new structure, divisional design of front metal plate, separate assembling of metal plates in each part and separation of electric room and machine room improve repair and maintenance convenience. Modularized design of electric box and spatial independence of two variable frequency compressors' control circuits reduce mutual crosstalk, enhance EMC performance greatly and make heat emission efficiency better.



New Installation

The modular design makes installation easier

Hisense G+ series is characterized by compact structure and modular design by breaking up the whole system into parts, making it easier for both installation and transportation. Taking 88HP as an example, capacity of a single-module product is up to 22HP. And, it can be an assembly of 4 modules, not only meeting the high-capacity requirement but effectively save the space.



The volume is convenient for elevator transportation

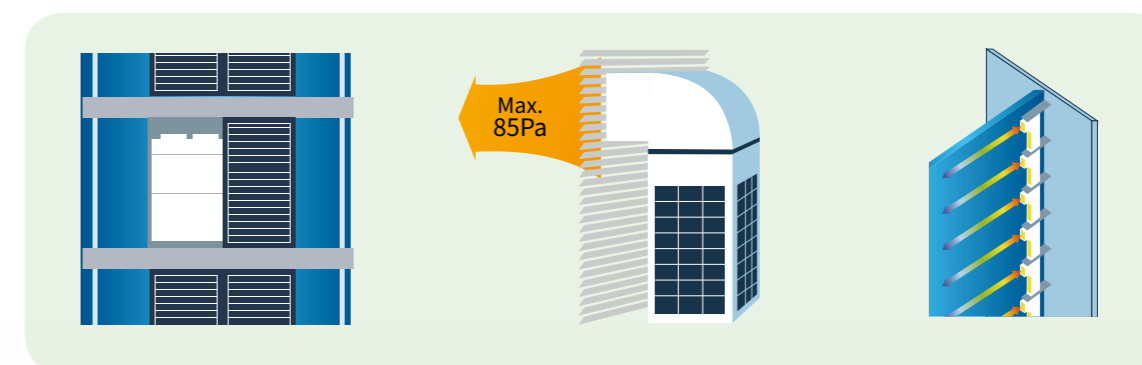
Static pressure of outdoor unit is up to 85Pa

The maximum static pressure of outdoor unit is up to 85Pa and is more suitable for layered installation and centralized installation.

The higher static pressure and longer air supplying distance of outdoor unit ensures smooth circulation of air flow and solves the problem of heat dissipation of outdoor unit effectively.

The outdoor unit featured with higher static pressure, well responds to the severe environment where the outdoor unit is placed at, is available for more flexible arrangement and is favorable for concealed installation of outdoor unit.

*Note: for details, please consult the technical personnel.



Layered arrangement of outdoor unit solves the problem of heat dissipation easily

Favorable for concealed installation of outdoor unit and making the facade more aesthetic

Air distribution schematic diagram

| Outdoor Unit Specifications



Hi-FLEXI G+ Series		HP	8HP	10HP	12HP	14HP
Model Power Supply	AC3Φ380V~415V/50/60Hz		AVWT-76UKSNA	AVWT-96UKSNA	AVWT-114UKSNA	AVWT-136UKSTA
	AC3Φ208~230V/60Hz		AVWT-76U8SNA	AVWT-96U8SNA	AVWT-114U8SNA	AVWT-136U8STA
Combination						
Cooling Operation	Nominal Capacity	kW	22.4	28.0	33.5	40.0
		KBtu/h	76.4	95.5	114.3	136.5
	Power Consumption	kW	5.00	6.95	8.66	10.61
	EER		4.48	4.03	3.87	3.77
Heating Opeartion	Nominal Capacity	kW	25.0	31.5	37.5	45.0
		KBtu/h	85.3	107.5	128.0	153.5
	Power Consumption	kW	5.00	6.35	8.06	9.91
	COP		5.00	4.96	4.65	4.54
Air Flow Rate		m³/h	9,300	10,200	10,500	11,700
Outer Dimension (H×W×D)		mm	1,730×950×750	1,730×950×750	1,730×950×750	1,730×1,210×750
Packing Dimension (H×W×D)		mm	1,930×1,015×790	1,930×1,015×790	1,930×1,015×790	1,930×1,275×790
Net Weight		Kg	239	240	241	331
Gross Weight		Kg	251	252	253	353
Compressor Quantity			1	1	1	2
Condenser Fan Quantity			1	1	1	1
Cabinet Color			Ivory White			
Refrigerant Piping	Gas Line	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
	Liquid Line	mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7
Max. number of connectable IDU			13	16	19	23
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	63/64	65/65	65/66	66/68
Operation Range	Cooling	℃ DB	-5~52*			
	Heating	℃ WB	-20~15			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.
- When the cooling operation temperature is over 43℃ , please contact with our professional engineer.



Hi-FLEXI G+ Series		HP	16HP	18HP	20HP	22HP
Model Power Supply	AC3Φ380V~415V/50/60Hz		AVWT-154UKSTA	AVWT-170UKSTA	AVWT-190UKS1A	AVWT-212UKS1A
	AC3Φ208~230V/60Hz		AVWT-154U8STA	AVWT-170U8STA	AVWT-190U8S1A	AVWT-212U8S1A
Combination						
Cooling Operation	Nominal Capacity	kW	45.0	50.0	56.0	61.5
		KBtu/h	153.5	170.6	191.1	209.8
	Power Consumption	kW	12.61	14.37	16.42	20.10
	EER		3.57	3.48	3.41	3.06
Heating Opeartion	Nominal Capacity	kW	50.0	56.0	63.0	69.0
		KBtu/h	170.6	191.1	215.0	235.4
	Power Consumption	kW	12.29	13.97	16.41	19.11
	COP		4.07	4.01	3.84	3.61
Air Flow Rate		m³/h	11,700	14,400	15,300	16,200
Outer Dimension (H×W×D)		mm	1,730×1,210×750	1,730×1,210×750	1,730×1,350×750	1,730×1,350×750
Packing Dimension (H×W×D)		mm	1,930×1,275×790	1,930×1,275×790	1,930×1,420×790	1,930×1,420×790
Net Weight		Kg	332	333	394	395
Gross Weight		Kg	354	355	415	416
Compressor Quantity			2	2	2	2
Condenser Fan Quantity			1	1	2	2
Cabinet Color			Ivory White			
Refrigerant Piping	Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
	Liquid Line	mm	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Max. number of connectable IDU			26	26	33	36
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	66/68	67/68	69/69	69/69
Operation Range	Cooling	℃ DB	-5~52*			
	Heating	℃ WB	-20~15			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.
- When the cooling operation temperature is over 43℃ , please contact with our professional engineer.

| Outdoor Unit Specifications



Hi-FLEXI G+ Series		HP	24HP	26HP	28HP	30HP	32HP	34HP
Model Power Supply	AC3Φ380V~415V/50/60Hz		AVWT-232UKSZA	AVWT-250UKSZA	AVWT-268UKSZA	AVWT-287UKSZA	AVWT-306UKSZA	AVWT-324UKSZA
	AC3Φ208~230V/60Hz		AVWT-232U8SZA	AVWT-250U8SZA	AVWT-268U8SZA	AVWT-287U8SZA	AVWT-306U8SZA	AVWT-324U8SZA
Combination			AVWT-96U*	AVWT-114U*	AVWT-114U*	AVWT-96U*	AVWT-114U*	AVWT-154U*
			AVWT-136U*	AVWT-136U*	AVWT-154U*	AVWT-190U*	AVWT-190U*	AVWT-170U*
Cooling Operation	Nominal Capacity	kW	68.0	73.5	78.5	84.0	89.5	95
		KBtu/h	232.0	250.8	267.8	286.6	305.4	324.1
	Power Consumption	kW	17.56	19.27	21.26	23.37	25.08	26.97
	EER		3.87	3.81	3.69	3.59	3.57	3.52
Heating Opeartion	Nominal Capacity	kW	76.5	82.5	87.5	94.5	100.5	106.0
		KBtu/h	261.0	281.5	298.6	322.4	342.9	361.7
	Power Consumption	kW	16.3	18.0	20.3	22.8	24.5	26.25
	COP		4.71	4.59	4.30	4.15	4.11	4.04
Air Flow Rate		m³/h	21,900	22,200	22,200	25,500	25,800	26,100
Outer Dimension (H×W×D)		mm	1,730× (950+1,210) ×750			1,730× (950+1,350) ×750		1,730× (1,210+1,210) ×750
Packing Dimension (H×W×D)		mm	1,930×(1,015+1,275)×790			1,930× (1,015+1,420) ×790		1,930× (1,275+1,275) ×790
Net Weight		Kg	571	572	573	634	635	665
Gross Weight		Kg	605	606	607	667	668	709
Compressor Quantity			3	3	3	3	3	4
Condenser Fan Quantity			2	2	2	3	3	2
Cabinet Color			Ivory White					
Refrigerant Piping	Gas Line	mm	Φ28.6	Φ31.75	Φ31.75	Φ31.75	Φ31.75	Φ38.1
	Liquid Line	mm	Φ15.88	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max. number of connectable IDU			40	43	47	50	53	56
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	68/69	69/70	71/73	72/73	72/73	72/73
Operation Range	Cooling	℃ DB	-5~52*					
	Heating	℃ WB	-20~15					

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 inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 2.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.
- 3.The final appearance of outdoor units is subject to the actual products.
- 4.For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.
- 5.When the cooling operation temperature is over 43℃ , please contact with our professional engineer.



Hi-FLEXI G+ Series		HP	36HP	38HP	40HP	42HP	44HP
Model Power Supply	AC3Φ380V~415V/50/60Hz		AVWT-340UKSZA	AVWT-364UKSZA	AVWT-382UKSZA	AVWT-398UKSZA	AVWT-420UKSZA
	AC3Φ208~230V/60Hz		AVWT-340U8SZA	AVWT-364U8SZA	AVWT-382U8SZA	AVWT-398U8SZA	AVWT-420U8SZA
Combination			AVWT-170U*	AVWT-154U*	AVWT-190*	AVWT-190U*	AVWT-212U*
			AVWT-170U*	AVWT-212U*	AVWT-190*	AVWT-212U*	AVWT-212U*
Cooling Operation	Nominal Capacity	kW	100	106.5	112	117.5	123
		KBtu/h	341.2	363.4	382.1	400.9	419.7
	Power Consumption	kW	28.74	32.70	32.84	36.52	40.20
	EER		3.48	3.26	3.41	3.22	3.06
Heating Opeartion	Nominal Capacity	kW	112.0	119.0	126.0	132.0	138.0
		KBtu/h	382.1	406.0	429.9	450.4	470.9
	Power Consumption	kW	27.9	31.4	32.8	35.5	38.2
	COP		4.01	3.79	3.84	3.72	3.61
Air Flow Rate		m³/h	28,800	27,900	30,600	31,500	32,400
Outer Dimension (H×W×D)		mm	1,730× (1,210+1,210) ×750	1,730× (1,210+1,350) ×750	1,730× (1,350+1,350) ×750		
Packing Dimension (H×W×D)		mm	1,930× (1,275+1,275) ×790	1,930× (1,275+1,420) ×790	1,930× (1,420+1,420) ×790		
Net Weight		Kg	666	727	788	789	790
Gross Weight		Kg	710	770	830	831	832
Compressor Quantity			4	4	4	4	4
Condenser Fan Quantity			2	3	4	4	4
Cabinet Color			Ivory White				
Refrigerant Piping	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max. number of connectable IDU			59	64	64	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	72/73	72/73	74/74	74/74	74/74
Operation Range	Cooling	℃ DB	-5~52*				
	Heating	℃ WB	-20~15				

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 inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 2.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.
- 3.The final appearance of outdoor units is subject to the actual products.
- 4.For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.
- 5.When the cooling operation temperature is over 43℃ , please contact with our professional engineer.

| Outdoor Unit Specifications

Hi-FLEXI G+ Series		HP	46HP	48HP	50HP	52HP	54HP
Model Power Supply	AC3Φ380V~415V/50/60Hz		AVWT-438UKSZA	AVWT-454UKSZA	AVWT-476UKSZA	AVWT-494UKSZA	AVWT-510UKSZA
	AC3Φ208~230V/60Hz		AVWT-438U8SZA	AVWT-454U8SZA	AVWT-476U8SZA	AVWT-494U8SZA	AVWT-510U8SZA
Combination			AVWT-114U*	AVWT-114U*	AVWT-114U*	AVWT-114U*	AVWT-170U*
			AVWT-154U*	AVWT-170U*	AVWT-154U*	AVWT-170U*	AVWT-170U*
			AVWT-170U*	AVWT-170U*	AVWT-212U*	AVWT-212U*	AVWT-170U*
Cooling Operation	Nominal Capacity	kW	128.5	133.5	140	145.0	150
		KBtu/h	438.4	455.5	477.7	494.7	511.8
	Power Consumption	kW	35.63	37.39	41.36	43.12	43.10
	EER		3.61	3.57	3.38	3.36	3.48
Heating Opeartion	Nominal Capacity	kW	143.5	149.5	156.5	162.5	168.0
		KBtu/h	489.6	510.1	534.0	554.5	573.2
	Power Consumption	kW	34.3	35.99	39.5	41.1	41.9
	COP		4.18	4.15	3.97	3.95	4.01
Air Flow Rate		m³/h	36,600	39,300	38,400	41,100	43,200
Outer Dimension (H×W×D)		mm	1,730× (950+1,210+1,210) ×750		1,730× (950+12,10+1,350) ×750		1,730×(1,210+1,210+1,210)×750
Packing Dimension (H×W×D)		mm	1,930× (1,015+1,275+1,275) ×790		1,930× (1,015+1,275+1,420) ×790		1,930×(1,275+1,275+1,275)×790
Net Weight		Kg	906	907	968	969	999
Gross Weight		Kg	962	963	1,023	1,024	1,065
Compressor Quantity			5	5	5	5	6
Condenser Fan Quantity			3	3	4	4	3
Cabinet Color			Ivory White				
Refrigerant Piping	Gas Line	mm	Φ41.3	Φ41.3	Φ41.3	Φ41.3	Φ41.3
	Liquid Line	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2
Max. number of connectable IDU			64	64	64	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(90°)/40(70°)	50(90°)/40(70°)	50(90°)/40(70°)	50(90°)/40(70°)	50(90°)/40(70°)
	Between IDUs	m	15(30°)	15(30°)	15(30°)	15(30°)	15(30°)
Noise Level		dB(A)	74/75	74/75	74/75	74/75	75/75
Operation Range	Cooling	℃ DB	-5~52*				
	Heating	℃ WB	-20~15				

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.
- When the cooling operation temperature is over 43℃ , please contact with our professional engineer.

Hi-FLEXI G+ Series		HP	56HP	58HP	60HP	62HP	64HP	66HP
Model Power Supply	AC3Φ380V~415V/50/60Hz		AVWT-534UKSZA	AVWT-551UKSZA	AVWT-572UKSZA	AVWT-590UKSZA	AVWT-611UKSZA	AVWT-630UKSZA
	AC3Φ208~230V/60Hz		AVWT-534U8SZA	AVWT-551U8SZA	AVWT-572U8SZA	AVWT-590U8SZA	AVWT-611U8SZA	AVWT-630U8SZA
Combination			AVWT-154U*	AVWT-170U*	AVWT-170U*	AVWT-170U*	AVWT-190U*	AVWT-212U*
			AVWT-170U*	AVWT-170U*	AVWT-190U*	AVWT-212U*	AVWT-212U*	AVWT-212U*
			AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*
Cooling Operation	Nominal 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
	Power Consumption	kW	47.07	48.83	50.89	54.56	56.62	60.29
	EER		3.32	3.31	3.29	3.17	3.16	3.06
Heating Opeartion	Nominal 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
	Power Consumption	kW	45.4	47.0	49.5	52.2	54.6	57.3
	COP		3.86	3.85	3.80	3.72	3.68	3.61
Air Flow Rate		m³/h	42,300	45,000	45,900	46,800	47,700	48,600
Outer Dimension (H×W×D)		mm	1,730×(1,210+1,210+1,350)×750		1,730×(1,210+1,350+1,350)×750		1,730×(1,350+1,350+1,350)×750	
Packing Dimension (H×W×D)		mm	1,930×(1,275+1,275+1,420)×790		1,930×(1,210+1,420+1,420)×790		1,930×(1,420+1,420+1,420)×790	
Net Weight		Kg	1,060	1,061	1,122	1,123	1,184	1,185
Gross Weight		Kg	1,125	1,126	1,186	1,187	1,247	1,248
Compressor Quantity			6	6	6	6	6	6
Condenser Fan Quantity			4	4	5	5	6	6
Cabinet Color			Ivory White					
Refrigerant Piping	Gas Line	mm	Φ41.3	Φ44.5	Φ44.5	Φ44.5	Φ44.5	Φ44.5
	Liquid Line	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2
Max. number of connectable IDU			64	64	64	64	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(90°)/40(70°)	50(90°)/40(70°)	50(90°)/40(70°)	50(90°)/40(70°)	50(90°)/40(70°)	50(90°)/40(70°)
	Between IDUs	m	15(30°)	15(30°)	15(30°)	15(30°)	15(30°)	15(30°)
Noise Level		dB(A)	75/76	75/76	76/76	76/76	76/76	76/76
Operation Range	Cooling	℃ DB	-5~52*					
	Heating	℃ WB	-20~15					

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.
- When the cooling operation temperature is over 43℃ , please contact with our professional engineer.

| Outdoor Unit Specifications



Hi-FLEXI G+ Series		HP	68HP	70HP	72HP	74HP	76HP	78HP
Model Power Supply	AC3Φ380V~415V/50/60Hz		AVWT-649UKSZA	AVWT-666UKSZA	AVWT-688UKSZA	AVWT-705UKSZA	AVWT-722UKSZA	AVWT-742UKSZA
	AC3Φ208~230V/60Hz		AVWT-649U8SZA	AVWT-666U8SZA	AVWT-688U8SZA	AVWT-705U8SZA	AVWT-722U8SZA	AVWT-742U8SZA
Combination			AVWT-114U*	AVWT-114U*	AVWT-114U*	AVWT-114U*	AVWT-170U*	AVWT-170U*
			AVWT-154U*	AVWT-170U*	AVWT-154U*	AVWT-170U*	AVWT-170U*	AVWT-170U*
			AVWT-170U*	AVWT-170U*	AVWT-212U*	AVWT-212U*	AVWT-170U*	AVWT-190U*
			AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*
Cooling Operation	Nominal Capacity	kW	190	195	201.5	206.5	211.5	217.5
		KBtu/h	648.3	665.3	687.5	704.6	721.6	742.1
	Power Consumption	kW	57.51	57.49	61.46	63.22	63.20	65.26
	EER		3.30	3.39	3.28	3.27	3.35	3.33
Heating Opeartion	Nominal Capacity	kW	212.5	218.5	225.5	231.5	237.0	244.0
		KBtu/h	725.1	745.5	769.4	789.9	808.6	832.5
	Power Consumption	kW	53.4	55.1	58.6	60.2	61.0	63.4
	COP		3.98	3.97	3.85	3.84	3.88	3.85
Air Flow Rate		m³/h	52,800	55,500	54,600	57,300	59,400	60,300
Outer Dimension (H×W×D)		mm	1,730×(950+1,210+1,210+1,350)×750	1,730×(950+1,210+1,210+1,350)×750	1,730×(950+1,210+1,350+1,350)×750	1,730×(1,210+1,210+1,210+1,350)×750	1,730×(1,210+1,210+1,350+1,350)×750	1,730×(1,210+1,210+1,350+1,350)×750
Packing Dimension (H×W×D)		mm	1,930×(1,015+1,275+1,275+1,420)×790	1,930×(1,015+1,275+1,275+1,420)×790	1,930×(1,015+1,210+1,420+1,420)×790	1,930×(1,275+1,275+1,275+1,420)×790	1,930×(1,275+1,275+1,420+1,420)×790	1,930×(1,275+1,275+1,420+1,420)×790
Net Weight		Kg	1,301	1,302	1,363	1,364	1,394	1,455
Gross Weight		Kg	1,378	1,379	1,439	1,440	1,481	1,541
Compressor Quantity			7	7	7	7	8	8
Condenser Fan Quantity			5	5	6	6	5	6
Cabinet Color			Ivory White					
Refrigerant Piping	Gas Line	mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8	Φ50.8	Φ50.8
	Liquid Line	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Max. number of connectable IDU			64	64	64	64	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	76/77	76/77	76/77	76/77	76/77	76/77
Operation Range	Cooling	℃ DB	-5~52*					
	Heating	℃ WB	-20~15					

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.
- When the cooling operation temperature is over 43℃ , please contact with our professional engineer.

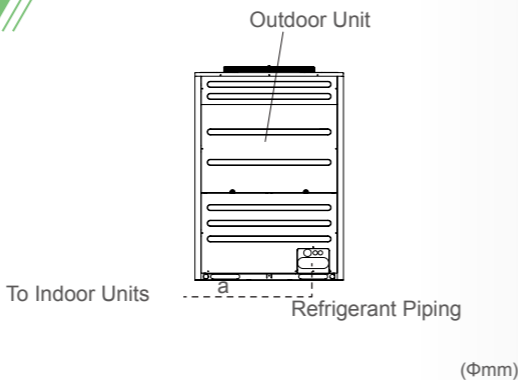


Hi-FLEXI G+ Series		HP	80HP	82HP	84HP	86HP	88HP
Model Power Supply	AC3Φ380V~415V/50/60Hz		AVWT-761UKSZA	AVWT-782UKSZA	AVWT-800UKSZA	AVWT-821UKSZA	AVWT-840UKSZA
	AC3Φ208~230V/60Hz		AVWT-761U8SZA	AVWT-782U8SZA	AVWT-800U8SZA	AVWT-821U8SZA	AVWT-840U8SZA
Combination			AVWT-170U*	AVWT-170U*	AVWT-170U*	AVWT-190U*	AVWT-212U*
			AVWT-170U*	AVWT-190U*	AVWT-212U*	AVWT-212U*	AVWT-212U*
			AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*
			AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*	AVWT-212U*
Cooling Operation	Nominal Capacity	kW	223	229	234.5	240.5	246
		KBtu/h	760.9	781.3	800.1	820.6	839.4
	Power Consumption	kW	68.93	70.99	74.66	76.72	80.39
	EER		3.24	3.23	3.14	3.13	3.06
Heating Opeartion	Nominal Capacity	kW	250.0	257.0	263.0	270.0	276.0
		KBtu/h	853.0	876.9	897.4	921.2	941.7
	Power Consumption	kW	66.2	68.6	71.3	73.7	76.5
	COP		3.78	3.75	3.69	3.66	3.61
Air Flow Rate		m³/h	61,200	62,100	63,000	63,900	64,800
Outer Dimension (H×W×D)		mm	1,730×(1,210+1,210+1,350+1,350)×750	1,730×(1,210+1,350+1,350+1,350)×750	1,730×(1,350+1,350+1,350+1,350)×750	1,730×(1,350+1,350+1,350+1,350)×750	1,730×(1,350+1,350+1,350+1,350)×750
Packing Dimension (H×W×D)		mm	1,930×(1,275+1,275+1,420+1,420)×790	1,930×(1,275+1,420+1,420+1,420)×790	1,930×(1,275+1,420+1,420+1,420)×790	1,930×(1,420+1,420+1,420+1,420)×790	1,930×(1,420+1,420+1,420+1,420)×790
Net Weight		Kg	1,456	1,517	1,518	1,579	1,580
Gross Weight		Kg	1,542	1,602	1,603	1,663	1,664
Compressor Quantity			8	8	8	8	8
Condenser Fan Quantity			6	7	7	8	8
Cabinet Color			Ivory White				
Refrigerant Piping	Gas Line	mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8	Φ50.8
	Liquid Line	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Max. number of connectable IDU			64	64	64	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)	50(90*)/40(70*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	77/77	77/77	77/77	77/77	77/77
Operation Range	Cooling	℃ DB	-5~52*				
	Heating	℃ WB	-20~15				

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.
- When the cooling operation temperature is over 43℃ , please contact with our professional engineer.

| Piping Size for Base Units

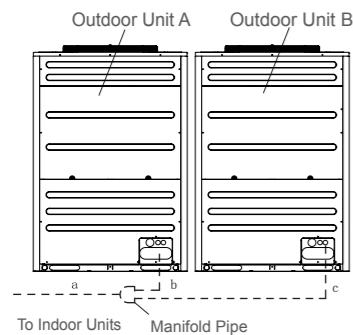


Model		AVWT-76UKSNA	AVWT-96UKSNA	AVWT-114UKSNA	AVWT-136UKSNA
Piping Size	a	Gas	19.05	22.2	25.4
		Liquid	9.53	9.53	12.7

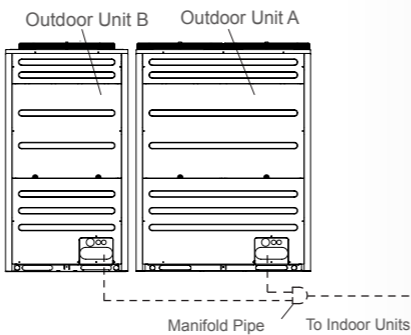
Model		AVWT-154UKSNA	AVWT-170UKSTA	AVWT-190UKS1A	AVWT-212UKS1A
Piping Size	a	Gas	28.6	28.6	28.6
		Liquid	12.7	15.88	15.88

| Piping Size for Two Units Combination

(Indoor Unit on Left Side)



(Indoor Unit on Right Side)

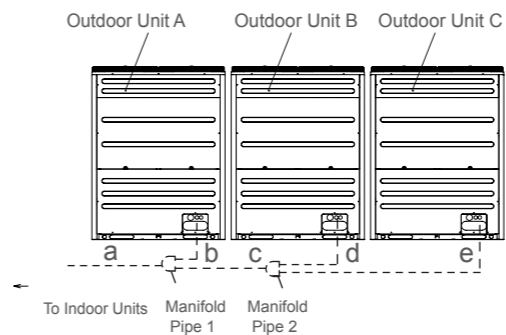


Model		AVWT-232UKSZA	AVWT-250UKSZA	AVWT-268UKSZA	AVWT-287UKSZA	AVWT-306UKSZA
Combination Unit	Outdoor Unit A	AVWT-136UKSTA	AVWT-136UKSTA	AVWT-154UKSTA	AVWT-190UKS1A	AVWT-190UKS1A
	Outdoor Unit B	AVWT-96UKSNA	AVWT-114UKSNA	AVWT-114UKSNA	AVWT-96UKSNA	AVWT-114UKSNA
Manifold Pipe		HFQ-M22F		HFQ-M32F		
Piping Size	a	Gas	28.6	31.75	31.75	31.75
		Liquid	15.88	19.05	19.05	19.05
	b	Gas	25.4	25.4	28.6	28.6
		Liquid	12.7	12.7	15.88	15.88
	c	Gas	22.2	25.4	22.2	25.4
		Liquid	9.53	12.7	12.7	9.53

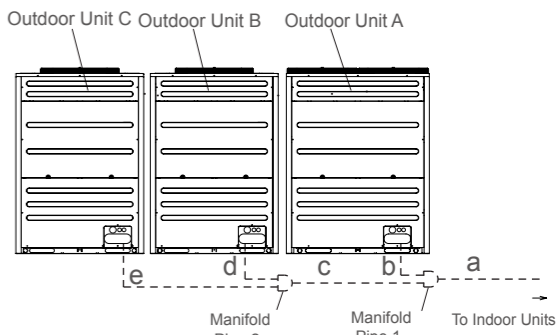
Model		AVWT-324UKSZA	AVWT-340UKSZA	AVWT-364UKSZA	AVWT-382UKSZA	AVWT-398UKSZA	AVWT-420UKSZA
Combination Unit	Outdoor Unit A	AVWT-170UKSTA	AVWT-170UKSTA	AVWT-212UKS1A	AVWT-190UKS1A	AVWT-212UKS1A	AVWT-212UKS1A
	Outdoor Unit B	AVWT-154UKSTA	AVWT-170UKSNA	AVWT-154UKSTA	AVWT-190UKS1A	AVWT-190UKS1A	AVWT-212UKS1A
Manifold Pipe		HFQ-M22F		HFQ-M32F			
Piping Size	a	Gas	38.1	38.1	38.1	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05	19.05
	b	Gas	28.6	28.6	28.6	28.6	28.6
		Liquid	15.88	15.88	15.88	15.88	15.88
	c	Gas	25.4	25.4	28.6	28.6	28.6
		Liquid	12.7	12.7	12.7	15.88	15.88

| Piping Size for Three Units Combination

(Indoor Unit on Left Side)



(Indoor Unit on Right Side)



Model		AVWT-438UKSZA	AVWT-452UKSZA	AVWT-476UKSZA	AVWT-494UKSZA	AVWT-510UKSZA	AVWT-534UKSZA
Combination Unit	Outdoor Unit A	AVWT-170UKSTA	AVWT-170UKSTA	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-170UKSTA	AVWT-212UKS1A
	Outdoor Unit B	AVWT-154UKSTA	AVWT-170UKSTA	AVWT-154UKSTA	AVWT-170UKSTA	AVWT-170UKSTA	AVWT-170UKSTA
	Outdoor Unit C	AVWT-114UKSNA	AVWT-114UKSNA	AVWT-114UKSNA	AVWT-114UKSNA	AVWT-170UKSTA	AVWT-154UKSTA
Manifold Pipe1		HFQ-M462F					
Manifold Pipe2		HFQ-M32F					
Piping Size	a	Gas	41.3	41.3	41.3	41.3	41.3
		Liquid	22.2	22.2	22.2	22.2	22.2
	b	Gas	28.6	28.6	28.6	28.6	28.6
		Liquid	15.88	15.88	15.88	15.88	15.88
	c	Gas	31.75	31.75	31.75	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05	19.05
	d	Gas	25.4	25.4	25.4	28.6	28.6
		Liquid	12.7	12.7	12.7	15.88	15.88
	e	Gas	25.4	25.4	25.4	25.4	25.4
		Liquid	12.7	12.7	12.7	12.7	12.7

Model		AVWT-551UKSZA	AVWT-572UKSZA	AVWT-590UKSZA	AVWT-611UKSZA	AVWT-630UKSZA
Combination Unit	Outdoor Unit A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A
	Outdoor Unit B	AVWT-170UKSTA	AVWT-190UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A
	Outdoor Unit C	AVWT-170UKSTA	AVWT-170UKSTA	AVWT-170UKSTA	AVWT-190UKS1A	AVWT-212UKS1A
Manifold Pipe1		HFQ-M462F				
Manifold Pipe2		HFQ-M32F				
Piping Size	a	Gas	44.5	44.5	44.5	44.5
		Liquid	22.2	22.2	22.2	22.2
	b	Gas	28.6	28.6	28.6	28.6
		Liquid	15.88	15.88	15.88	15.88
	c	Gas	38.1	38.1	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05
	d	Gas	28.6	28.6	28.6	28.6
		Liquid	15.88	15.88	15.88	12.7
	e	Gas	25.4	28.6	28.6	28.6
		Liquid	12.7	15.88	15.88	15.88

*Perform piping for outdoor unit in accordance with the requirements as set forth above.
Select manifold pipe model and tube size by referring to the models of outdoor unit provided above.

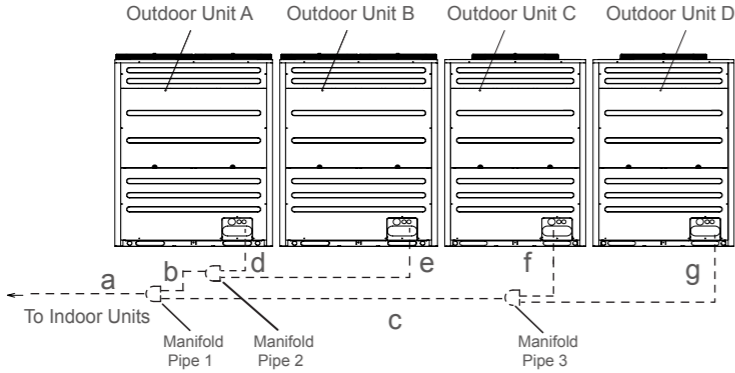
Model		AVWT-649UKSZA	AVWT-666UKSZA	AVWT-688UKSZA	AVWT-705UKSZA	AVWT-722UKSZA	AVWT-742UKSZA
Combination Unit	Outdoor Unit A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A
	Outdoor Unit B	AVWT-170UKSTA	AVWT-170UKSTA	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-170UKSTA	AVWT-190UKS1A
	Outdoor Unit C	AVWT-154UKSTA	AVWT-170UKSTA	AVWT-154UKSTA	AVWT-170UKSTA	AVWT-170UKSTA	AVWT-170UKSTA
	Outdoor Unit D	AVWT-114UKSNA	AVWT-114UKSNA	AVWT-114UKSNA	AVWT-114UKSNA	AVWT-170UKSTA	AVWT-170UKSTA
Manifold Pipe1		HFQ-M682F					
Manifold Pipe2		HFQ-M32F					
Manifold Pipe3		HFQ-M32F					
Piping Size	a	Gas	50.8	50.8	50.8	50.8	50.8
		Liquid	25.4	25.4	25.4	25.4	25.4
	b	Gas	38.1	38.1	38.1	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05	19.05
	c	Gas	31.75	31.75	31.75	31.75	31.75
		Liquid	19.05	19.05	19.05	19.05	19.05
	d	Gas	28.6	28.6	28.6	28.6	28.6
		Liquid	15.88	15.88	15.88	15.88	15.88
	e	Gas	28.6	28.6	28.6	28.6	28.6
		Liquid	15.88	15.88	15.88	15.88	15.88
	f	Gas	25.4	25.4	25.4	28.6	28.6
		Liquid	12.7	12.7	12.7	15.88	15.88
	g	Gas	25.4	25.4	25.4	25.4	28.6
		Liquid	12.7	12.7	12.7	12.7	12.7

Model		AVWT-761UKSZA	AVWT-782UKSZA	AVWT-800UKSZA	AVWT-821UKSZA	AVWT-840UKSZA
Combination Unit	Outdoor Unit A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A
	Outdoor Unit B	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A
	Outdoor Unit C	AVWT-170UKSTA	AVWT-190UKS1A	AVWT-212UKS1A	AVWT-212UKS1A	AVWT-212UKS1A
	Outdoor Unit D	AVWT-170UKSTA	AVWT-170UKSTA	AVWT-170UKSTA	AVWT-190UKS1A	AVWT-212UKS1A
Manifold Pipe1		HFQ-M682F				
Manifold Pipe2		HFQ-M32F				
Manifold Pipe3		HFQ-M32F				
Tube Size	a	Gas	50.8	50.8	50.8	50.8
		Liquid	25.4	25.4	25.4	25.4
	b	Gas	38.1	38.1	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05
	c	Gas	38.1	38.1	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05
	d	Gas	28.6	28.6	28.6	28.6
		Liquid	15.88	15.88	15.88	15.88
	e	Gas	28.6	28.6	28.6	28.6
		Liquid	15.88	15.88	15.88	15.88
	f	Gas	28.6	28.6	28.6	28.6
		Liquid	15.88	15.88	15.88	15.88
	g	Gas	25.4	28.6	28.6	28.6
		Liquid	12.7	12.7	12.7	12.7

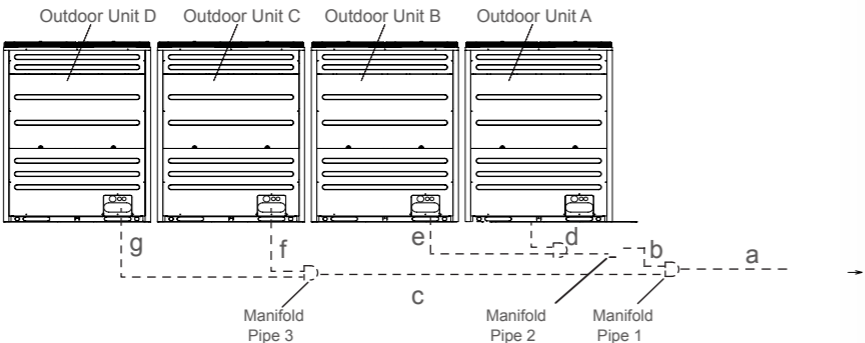
*Perform piping for outdoor unit in accordance with the requirements as set forth above.
Select manifold pipe model and tube size by referring to the models of outdoor unit provided above.

Piping Size for Two Units Combination

(Indoor Unit on Left Side)



(Indoor Unit on Right side)



Hi-FLEXi G Series

Latest Full DC Inverter Series

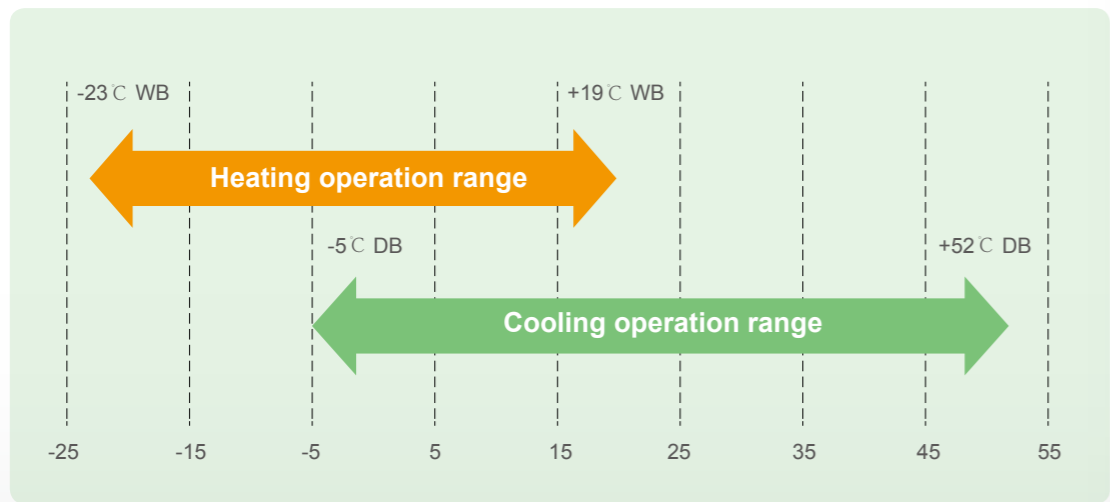
Hi-FLEXi G series is the full DC inverter-driven multi-split central air conditioning product. It is the concentrated expression of Hisense's R&D ability and technical strength. Multiple advanced technology is adopted:

- High efficiency high-pressure chamber scroll compressor
- Full DC inverter-driven control technology
- Stepless fan speed regulation and fan production technology
- Smart and precise unit capacity allocation technology
- Intelligent demand mode control technology



Wide Operating Range

The system can run within a wide temperature range, the lowest heating operation can reach -23°C WB, ensure a good heating effect in winter.



Stepless Fan Speed Regulation Technology

Full DC inverter series outdoor unit fan motor adopts DC inverter-driven motor which improves the motor efficiency by 40% and reduces the input power significantly. The outdoor unit fan can achieve stepless speed regulation according to the ambient temperature changes

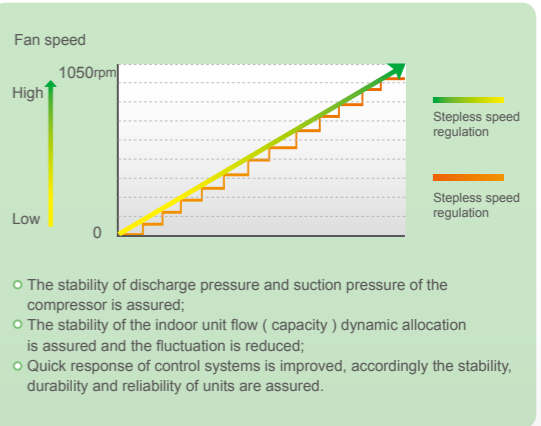
Streamlined air grille



Efficient axial fan



Stepless frequency conversion adjustment of the fan



Smart and Precise Unit Capacity Allocation

Tests show that multi-split air conditioning units are most efficient under 40% - 75% partial load condition, and the power consumption is lowest. Take 20HP units (double module) as an example, when the units operate under 12HP load, the load distribution of each module: common product is 10HP (full load) + 2HP (ultra-low load); Hisense Hi-FLEXi G series is 6HP+6HP (intermediate load).



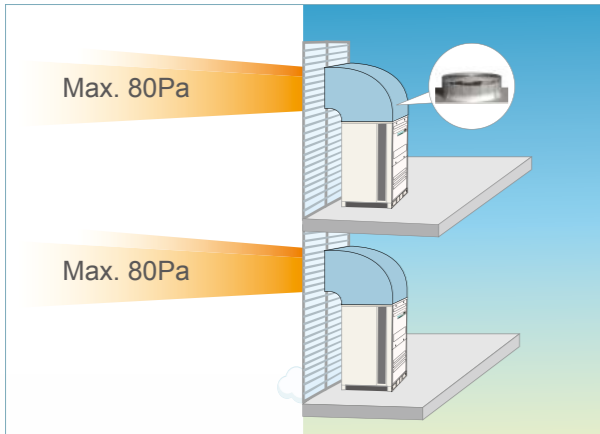
Hisense Hi-FLEXi G Series:

The efficiency will be the highest and the power consumption will be lowest when each module unit is working at 40% - 75% partial load.

Traditional product:

In normal operation, the module combination is operated at full load + ultra-low load, which influences the service life of units and consumes more power.

Extra-high External Static Pressure Design



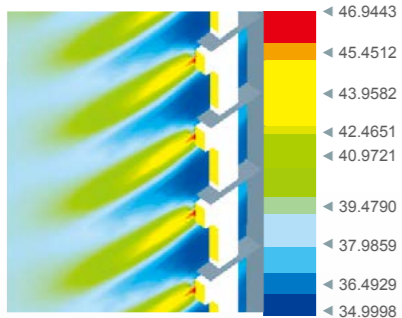
- Adopt high-efficiency DC fan motor
- The use of high-efficiency fan reduces energy consumption of the motor
- Can achieve industry-leading level of external static pressure 80Pa

The efficient axial fan is designed adopting CFD, finite element method, aviation dynamic fluid simulation analysis and other advanced concepts; its air inlet angle and outlet angle are optimized; together with unique horn air vent design, the external static pressure of outdoor unit is higher, to ensure smooth air flow.

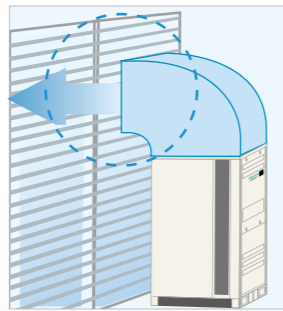
Layered Installation, Flexibly Corresponding to High-rise Buildings

For high-rise buildings, crawl space can be left to place outdoor units, or machine room can be set up on each floor. By using exhaust duct to exhaust the air, short circuit of return air can be avoided with long exhaust distance, which ensures good ventilation and heat exchange effects of outdoor units.

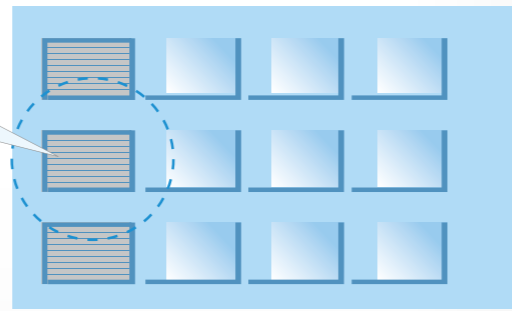
Temperature °C



Airflow Schematic



Exhaust duct installation



Layered installation effect picture

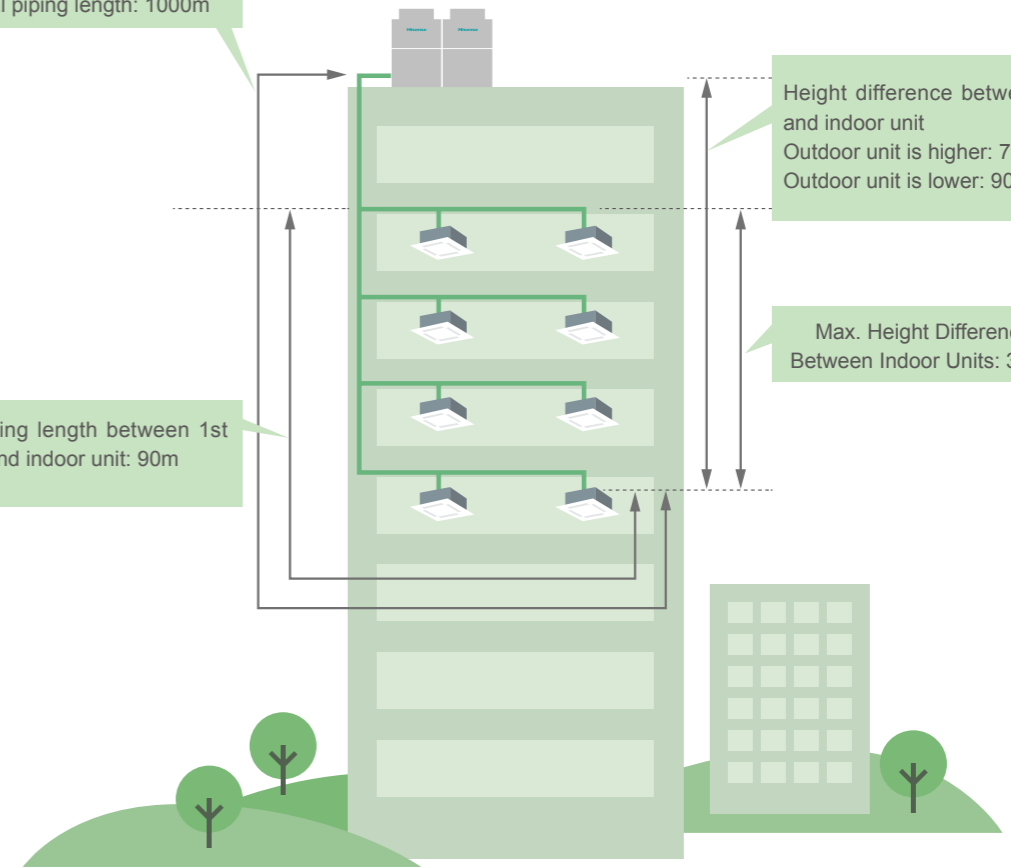
More Flexible Refrigerant Piping Work

Max. piping length: 190m*
Max. total piping length: 1000m

Max. piping length between 1st branch and indoor unit: 90m

Height difference between outdoor and indoor unit
Outdoor unit is higher: 70m*
Outdoor unit is lower: 90m*

Max. Height Difference Between Indoor Units: 30m*



Note: For data marked by *, please contact with our engineer.

| Outdoor Unit Specifications



Hi-FLEXI G Series		HP	8HP	10HP	12HP	14HP	16HP	18HP
Model Power Supply	AC3Φ380V~415V/50Hz		AVWT-76UESRG	AVWT-96UESRG	AVWT-114UESRG	AVWT-136UESSG	AVWT-154UESSG	AVWT-170UESSG
	AC3Φ380V/60Hz		AVWT-76U7SRG	AVWT-96U7SRG	AVWT-114U7SRG	AVWT-136U7SSG	AVWT-154U7SSG	AVWT-170U7SSG
	AC3Φ220V/60Hz		AVWT-76U9SRG	AVWT-96U9SRG	AVWT-114U9SRG	AVWT-136U9SSG	AVWT-154U9SSG	AVWT-170U9SSG
Combination								
Cooling Operation	Nominal Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0
		KBtu/h	76.5	95.6	114.3	136.5	153.6	170.6
	Power Consumption	kW	5.22	7.29	8.7	10.99	13.12	15.11
	EER		4.29	3.84	3.85	3.64	3.43	3.31
Heating Opeartion	Nominal Capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0
		KBtu/h	85.3	107.5	128.0	153.6	170.6	191.1
	Power Consumption	kW	5.57	7.48	9.35	10.98	12.41	14.7
	COP		4.49	4.21	4.01	4.10	4.03	3.81
Air Flow Rate		m³/h	9,300	10,200	10,500	11,700	11,700	11,700
Outer Dimension (H×W×D)		mm	1,720×950×750	1,720×950×750	1,720×950×750	1,720×1,210×750	1,720×1,210×750	1,720×1,210×750
Packing Dimension (H×W×D)		mm	1,882×1,018×828	1,882×1,018×828	1,882×1,018×828	1,882×1,278×828	1,882×1,278×828	1,882×1,278×828
Net Weight		Kg	224	225	227	312	315	318
Gross Weight		Kg	237	238	240	327	330	333
Compressor Quantity			1	1	1	2	2	2
Condenser Fan Quantity			1	1	1	1	1	1
Cabinet Color			Ivory White					
Refrigerant Piping	Gas Line	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6
	Liquid Line	mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Max. number of connectable IDU			13	16	19	23	26	26
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	56	57	59	59	59	60
Operation Range	Cooling	℃ DB	-5~52					
	Heating	℃ WB	-23~19					

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.



Hi-FLEXI G Series		HP	20HP	22HP	24HP	26HP
Model Power Supply	AC3Φ380V~415V/50Hz		AVWT-190UESZG	AVWT-212UESZG	AVWT-232UESZG	AVWT-250UESZG
	AC3Φ380V/60Hz		AVWT-190U7SZG	AVWT-212U7SZG	AVWT-232U7SZG	AVWT-250U7SZG
	AC3Φ220V/60Hz		AVWT-190U9SZG	AVWT-212U9SZG	AVWT-232U9SZG	AVWT-250U9SZG
Combination			AVWT-76U* AVWT-114U*	AVWT-76U* AVWT-136U*	AVWT-96U* AVWT-136U*	AVWT-114U* AVWT-136U*
Cooling Operation	Nominal Capacity	kW	56.0	61.5	69.0	73.0
		KBtu/h	191.1	209.9	235.5	249.1
	Power Consumption	kW	13.90	16.20	18.28	19.74
	EER		4.03	3.80	3.77	3.70
Heating Opeartion	Nominal Capacity	kW	63.0	69.0	77.5	82.5
		KBtu/h	215.0	235.5	264.5	281.6
	Power Consumption	kW	14.95	16.55	18.44	20.34
	COP		4.21	4.17	4.20	4.06
Air Flow Rate		m³/h	19,800	21,000	21,900	22,200
Outer Dimension (H×W×D)		mm	1,720×(950+950)×750	1,720×(950+1210)×750	1,720×(950+1,210)×750	1,720×(950+1,210)×750
Packing Dimension (H×W×D)		mm	-	-	-	-
Net Weight		Kg	224+227	224+312	225+312	227+312
Gross Weight		Kg	237+240	237+327	238+327	240+327
Compressor Quantity			2	3	3	3
Condenser Fan Quantity			2	2	2	2
Cabinet Color			Ivory White			
Refrigerant Piping	Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ31.75
	Liquid Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05
Max. number of connectable IDU			33	36	40	43
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	61	61	61	62
Operation Range	Cooling	℃ DB	-5~52			
	Heating	℃ WB	-23~19			

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.

| Outdoor Unit Specifications



28/30/32/34/36HP

Hi-FLEXi G Series		HP	28HP	30HP	32HP	34HP	36HP
Model Power Supply	AC3Φ380 ~ 415V/50Hz		AVWT-272UESZG	AVWT-290UESZG	AVWT-308UESZG	AVWT-324UESZG	AVWT-340UESZG
	AC3Φ380V/60Hz		AVWT-272U7SZG	AVWT-290U7SZG	AVWT-308U7SZG	AVWT-324U7SZG	AVWT-340U7SZG
	AC3Φ220V/60Hz		AVWT-272U9SZG	AVWT-290U9SZG	AVWT-308U9SZG	AVWT-324U9SZG	AVWT-340U9SZG
Combination			AVWT-136U*	AVWT-136U*	AVWT-154U*	AVWT-154U*	AVWT-170U*
			AVWT-136U*	AVWT-154U*	AVWT-154U*	AVWT-170U*	AVWT-170U*
Cooling Operation	Nominal Capacity	kW	80.0	85.0	90.0	95.0	100.0
		KBtu/h	273.0	290.1	307.2	324.2	341.3
	Power Consumption	kW	21.98	24.07	26.24	28.25	30.22
	EER		3.64	3.53	3.43	3.36	3.31
Heating Opeartion	Nominal Capacity	kW	90.0	95.0	100.0	106.0	112.0
		KBtu/h	307.2	324.2	341.3	361.8	382.3
	Power Consumption	kW	22.02	23.42	24.82	27.11	29.40
	COP		4.09	4.06	4.03	3.91	3.81
Air Flow Rate		m³/h	23,400	23,400	23,400	23,400	23,400
Outer Dimension (H×W×D)		mm	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750
Packing Dimension (H×W×D)		mm	-	-	-	-	-
Net Weight		Kg	312+312	312+315	315+315	315+318	318+318
Gross Weight		Kg	327+327	327+330	330+330	330+333	333+333
Compressor Quantity			4	4	4	4	4
Condenser Fan Quantity			2	2	2	2	2
Cabinet Color			Ivory White		Ivory White		
Refrigerant Piping	Gas Line	mm	Φ31.75	Φ31.75	Φ31.75	Φ31.75	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max. number of connectable IDU			47	50	53	56	59
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	62	62	62	63	63
Operation Range	Cooling	℃ DB	-5~52	-5~52	-5~52	-5~52	-5~52
	Heating	℃ WB	-23~19	-23~19	-23~19	-23~19	-23~19

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.



38/40/42HP

Hi-FLEXi G Series		HP	38HP	40HP	42HP
Model Power Supply	AC3Φ380 ~ 415V/50Hz		AVWT-364UESZG	AVWT-382UESZG	AVWT-398UESZG
	AC3Φ380V/60Hz		AVWT-364U7SZG	AVWT-382U7SZG	AVWT-398U7SZG
	AC3Φ220V/60Hz		AVWT-364U9SZG	AVWT-382U9SZG	AVWT-398U9SZG
Combination			AVWT-114U*	AVWT-114U*	AVWT-114U*
			AVWT-114U* AVWT-136U*	AVWT-114U* AVWT-154U*	AVWT-114U* AVWT-170U*
Cooling Operation	Nominal Capacity	kW	109.0	112.0	118.0
		KBtu/h	372.0	382.3	402.7
	Power Consumption	kW	28.43	30.58	32.52
	EER		3.83	3.66	3.63
Heating Opeartion	Nominal Capacity	kW	118.0	125.0	132.0
		KBtu/h	402.7	426.6	450.5
	Power Consumption	kW	29.71	31.11	33.37
	COP		3.97	4.02	3.96
Air Flow Rate		m³/h	32,700	32,700	32,700
Outer Dimension (H×W×D)		mm	1,720×(950+950+1,210)×750	1,720×(950+950+1,210)×750	1,720×(950+950+1,210)×750
Packing Dimension (H×W×D)		mm	-	-	-
Net Weight		Kg	227+227+312	227+227+315	227+227+318
Gross Weight		Kg	240+240+327	240+240+330	240+240+333
Compressor Quantity			4	4	4
Condenser Fan Quantity			3	3	3
Cabinet Color			Ivory White		
Refrigerant Piping	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
Max. number of connectable IDU			64	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	64	64	64
Operation Range	Cooling	℃ DB	-5~52	-5~52	-5~52
	Heating	℃ WB	-23~19	-23~19	-23~19

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.

| Outdoor Unit Specifications



Hi-FLEXi G Series		HP	44HP	46HP	48HP
Model Power Supply	AC3Φ380 ~ 415V/50Hz		AVWT-420UESZG	AVWT-438UESZG	AVWT-454UESZG
	AC3Φ380V/60Hz		AVWT-420U7SZG	AVWT-438U7SZG	AVWT-454U7SZG
	AC3Φ220V/60Hz		AVWT-420U9SZG	AVWT-438U9SZG	AVWT-454U9SZG
Combination			AVWT-114U*	AVWT-114U*	AVWT-114U*
			AVWT-136U* AVWT-170U*	AVWT-154U* AVWT-170U*	AVWT-170U* AVWT-170U*
Cooling Operation	Nominal Capacity	kW	125.0	132.0	136.0
		KBtu/h	426.6	450.5	464.2
	Power Consumption	kW	34.84	36.91	38.83
	EER		3.59	3.58	3.50
Heating Opearion	Nominal Capacity	kW	140.0	145.0	150.0
		KBtu/h	477.8	494.9	511.9
	Power Consumption	kW	35.06	36.51	38.80
	COP		3.99	3.97	3.87
Air Flow Rate		m³/h	33,900	33,900	33,900
Outer Dimension (H×W×D)		mm	1,720×(950+1,210+1,210)×750	1,720×(950+1,210+1,210)×750	1,720×(950+1,210+1,210)×750
Packing Dimension (H×W×D)		mm	-	-	-
Net Weight		Kg	227+312+318	227+315+318	227+318+318
Gross Weight		Kg	240+327+333	240+330+333	240+333+333
Compressor Quantity			5	5	5
Condenser Fan Quantity			3	3	3
Cabinet Color			Ivory White		
Refrigerant Piping	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
Max.number of connectable IDU			64	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	64	64	65
Operation Range	Cooling	℃ DB	-5~52	-5~52	-5~52
	Heating	℃ WB	-23~19	-23~19	-23~19

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length: 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.



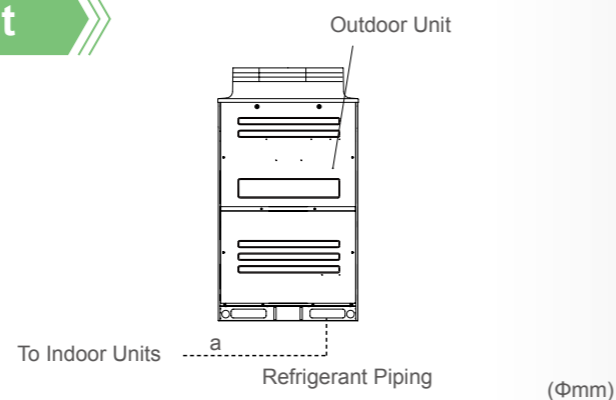
Hi-FLEXi G Series		HP	50HP	52HP	54HP
Model Power Supply	AC3Φ380 ~ 415V/50Hz		AVWT-476UESZG	AVWT-494UESZG	AVWT-510UESZG
	AC3Φ380V/60Hz		AVWT-476U7SZG	AVWT-494U7SZG	AVWT-510U7SZG
	AC3Φ220V/60Hz		AVWT-476U9SZG	AVWT-494U9SZG	AVWT-510U9SZG
Combination			AVWT-136U*	AVWT-154U*	AVWT-170U*
			AVWT-170U* AVWT-170U*	AVWT-170U* AVWT-170U*	AVWT-170U* AVWT-170U*
Cooling Operation	Nominal Capacity	kW	140.0	145.0	150.0
		KBtu/h	477.8	494.9	511.9
	Power Consumption	kW	41.21	43.32	45.33
	EER		3.40	3.35	3.31
Heating Opearion	Nominal Capacity	kW	155.0	160.0	165.0
		KBtu/h	529.0	546.1	563.1
	Power Consumption	kW	40.36	41.86	44.16
	COP		3.84	3.82	3.74
Air Flow Rate		m³/h	35,100	35,100	35,100
Outer Dimension (H×W×D)		mm	1,720×(1,210+1,210+1,210)×750	1,720×(1,210+1,210+1,210)×750	1,720×(1,210+1,210+1,210)×750
Packing Dimension (H×W×D)		mm	-	-	-
Net Weight		Kg	312+318+318	315+318+318	318+318+318
Gross Weight		Kg	327+333+333	330+333+333	333+333+333
Compressor Quantity			6	6	6
Condenser Fan Quantity			3	3	3
Cabinet Color			Ivory White		
Refrigerant Piping	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
Max.number of connectable IDU			64	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	65	65	65
Operation Range	Cooling	℃ DB	-5~52	-5~52	-5~52
	Heating	℃ WB	-23~19	-23~19	-23~19

Notes:

- Rated cooling capacity and rated heating capacity are tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27℃ DB 19℃ WB, Outdoor air inlet temperature: 35℃ DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20℃ DB, Outdoor air inlet temperature: 7℃ DB 6℃ WB, pipe length: 7.5m, pipe height difference : 0m
- 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(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.

Pipe Diameter for Outdoor Unit

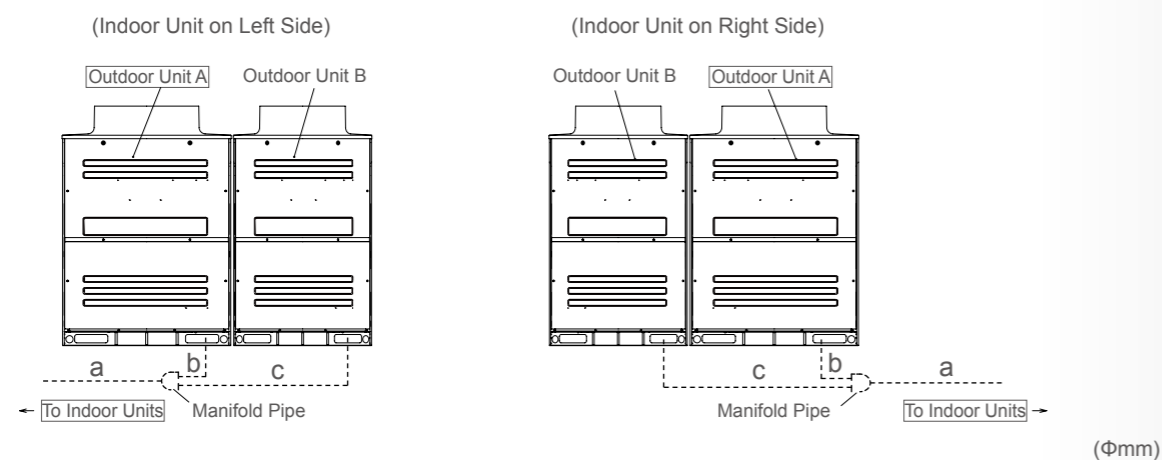
Piping Size for AVWT-76UE(7)SRG to AVWT-170UE(7)SSG (Base Unit)



Model			AVWT-76UE(7)SRG	AVWT-96UE(7)SRG	AVWT-114UE(7)SRG	AVWT-136UE(7)SSG	AVWT-154UE(7)SSG	AVWT-170UE(7)SSG
Piping Size	a	Gas	19.05	22.2	25.4	25.4	28.6	28.6
		Liquid	9.53	9.53	12.7	12.7	12.7	15.88

Piping Size for AVWT-190UE(7)SZG to AVWT-340UE(7)SZG (2 Units Combination)

< Figure for AVWT-232UE(7)SZG >

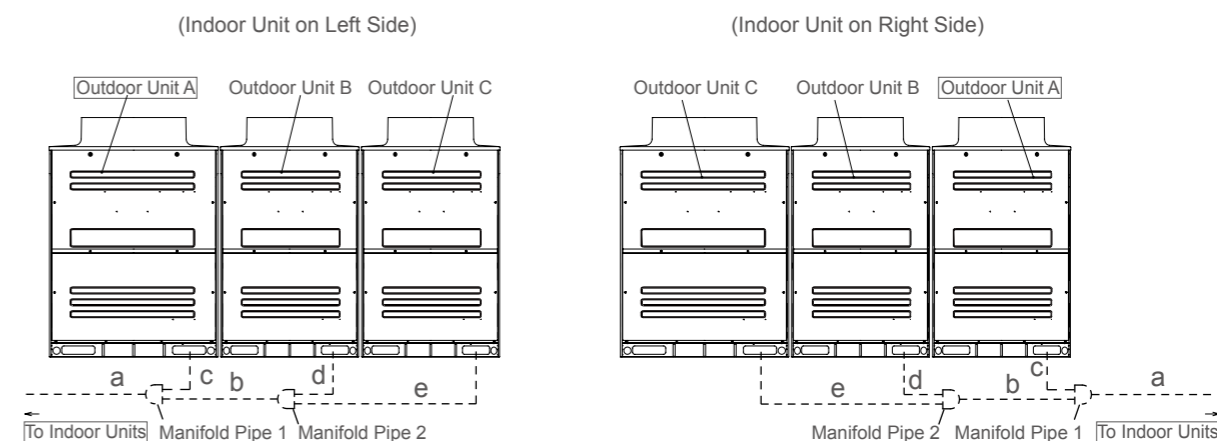


Model		AVWT-190*	AVWT-212*	AVWT-232*	AVWT-250*	AVWT-272*	AVWT-290*	AVWT-308*	AVWT-324*	AVWT-340*
Combination Unit	Outdoor Unit A	AVWT-76*	AVWT-76*	AVWT-96*	AVWT-114*	AVWT-136*	AVWT-136*	AVWT-154*	AVWT-154*	AVWT-170*
	Outdoor Unit B	AVWT-114*	AVWT-136*	AVWT-136*	AVWT-136*	AVWT-136*	AVWT-154*	AVWT-154*	AVWT-170*	AVWT-170*
Manifold Pipe		HFQ-M22F				HFQ-M32F				
Piping Size	a	Gas	28.6	28.6	28.6	31.75	31.75	31.75	31.75	38.1
		Liquid	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05
	b	Gas	25.4	25.4	25.4	25.4	28.6	28.6	28.6	28.6
		Liquid	12.7	12.7	12.7	12.7	12.7	12.7	15.88	15.88
	c	Gas	19.05	19.05	22.2	25.4	25.4	28.6	28.6	28.6
		Liquid	9.53	9.53	9.53	12.7	12.7	12.7	12.7	15.88

* Perform the installation of the outdoor unit and piping connection according to the figure.
Refer to the table for the outdoor unit model, the manifold pipe model and the piping diameter.

Piping Size for AVWT-364UE(7)SZG to AVWT-510UE(7)SZG (Triple Units Combination)

< Figure for AVWT-364UE(7)SZG >



Model		AVWT-364*	AVWT-382*	AVWT-398*	AVWT-420*	AVWT-438*	AVWT-454*	AVWT-476*	AVWT-494*	AVWT-510*
Combination Unit	Outdoor Unit A	AVWT-114*	AVWT-114*	AVWT-114*	AVWT-114*	AVWT-114*	AVWT-114*	AVWT-136*	AVWT-154*	AVWT-170*
	Outdoor Unit B	AVWT-114*	AVWT-114*	AVWT-114*	AVWT-136*	AVWT-154*	AVWT-170*	AVWT-170*	AVWT-170*	AVWT-170*
	Outdoor Unit C	AVWT-136*	AVWT-154*	AVWT-170*	AVWT-170*	AVWT-170*	AVWT-170*	AVWT-170*	AVWT-170*	AVWT-170*
Manifold Pipe		HFQ-M32F+HFQ-M32F								
Piping Size	a	Gas	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	b	Gas	28.6	28.6	28.6	31.75	31.75	31.75	31.75	31.75
		Liquid	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05
	c	Gas	25.4	28.6	28.6	28.6	28.6	28.6	28.6	28.6
		Liquid	12.7	12.7	15.88	15.88	15.88	15.88	15.88	15.88
	d	Gas	25.4	25.4	25.4	25.4	28.6	28.6	28.6	28.6
		Liquid	12.7	12.7	12.7	12.7	15.88	15.88	15.88	15.88
	e	Gas	25.4	25.4	25.4	25.4	25.4	25.4	28.6	28.6
		Liquid	12.7	12.7	12.7	12.7	12.7	12.7	12.7	15.88

* Perform the installation of the outdoor unit and piping connection according to the figure.
Refer to the table for the outdoor unit model, the manifold pipe model and the piping diameter.

Hi-FLEXi X Series

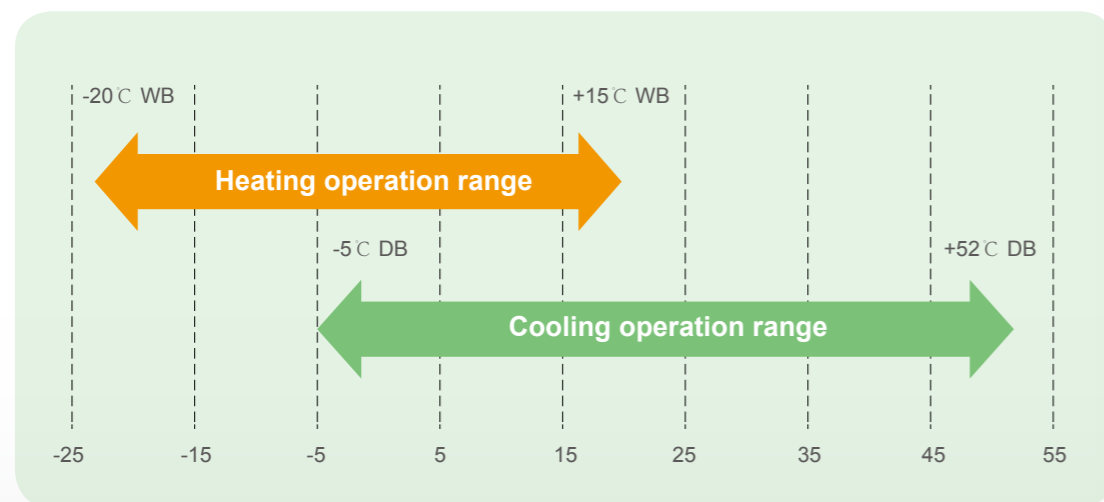
Hi-Flexi X series is equipped with large capacity full DC inverter compressor. The wide capacity range and compact structure design make it suitable for various place such as office building, shopping mall, hospital, school and so on.

- High efficiency and large capacity scroll compressor
- Latest DC inverter-driven technology
- Stepless fan speed regulation technology
- Smart and accurate unit capacity allocation technology
- Intelligent control mode



Wide Operating Range

The system can run in a wide temperature range, the lowest temperature can reach -20°C WB, ensure a good heating effect in winter.



Super-long piping conditions, more convenient design

Max. piping length: 190m*
Max. total piping length: 1000m

Max. piping length between 1st branch and indoor unit: 90m

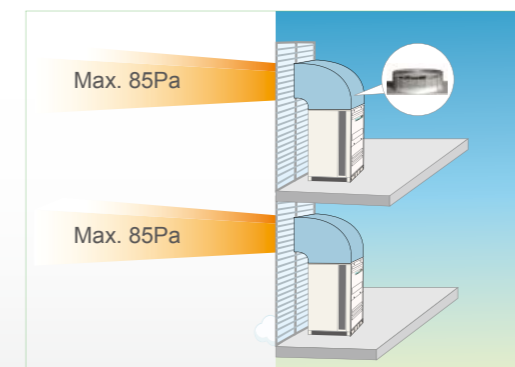
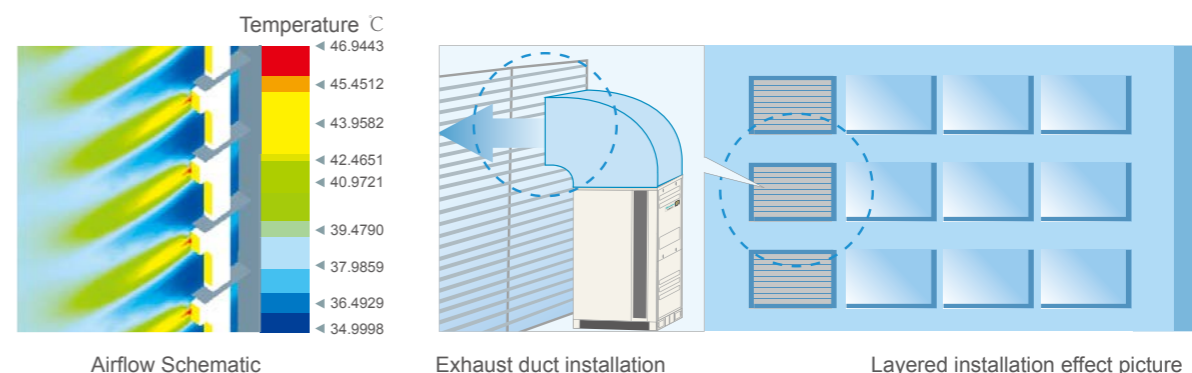
Height difference between outdoor and indoor unit
Outdoor unit is higher: 70m*
Outdoor unit is lower: 90m*

Height difference between indoor units: 30m*

Note: For data marked by *, please contact with our engineer.

Layered installation, flexibly corresponding to high-rise buildings

For high-rise buildings, machine layer can be left to place outdoor units, or machine room can be set up on each floor. By using exhaust duct to exhaust the air, with long distance supply air, can effectively prevent short circuit of return air, ensure good ventilation and heat exchange effects of outdoor units.



Extra-high external static pressure design

The efficient axial fan is designed adopting CFD, finite element method, aviation dynamic fluid simulation analysis and other advanced concepts; its air inlet angle and outlet angle are optimized; together with unique horn air vent design, the external static pressure of outdoor unit is higher, which can better exhaust air and ensure smooth air flow.

- Adopt high-efficiency DC fan motor
- The use of high-efficiency fan reduces energy consumption of the motor
- Can achieve industry-leading level of external static pressure 85Pa

| Outdoor Unit Specifications



Hi-FLEXI X Series		HP	8HP	10HP	12HP	14HP	16HP	18HP
Model			AVWT-76UESRX	AVWT-96UESRX	AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX	AVWT-172UESZX
Combination								AVWT-76UESRX
								AVWT-96UESRX
Power Supply			3Φ380-415V/50Hz					
Cooling Operatin	Cooling Capacity	kW	22.4	28	33.5	40	45	50.4
		Btu/h	76	96	114	136	154	172
	Power Consumption	kW	5.25	7.31	8.57	11.05	13.16	12.56
	EER		4.27	3.83	3.91	3.62	3.42	4.01
Heating Operatin	Heating Capacity	kW	25	31.5	37.5	45	50	56.5
	Power Consumption	kW	5.62	7.61	8.89	11.08	12.47	13.23
	COP		4.45	4.14	4.22	4.06	4.01	4.27
Air Flow Rate		m³/h	9,300	10,200	10,500	11,400	11,400	19,500
Outer Dimension	H	mm	1,720	1,720	1,720	1,720	1,720	1,720
	W	mm	950	950	1,210	1,210	1,210	950+950
	D	mm	765	765	765	765	765	765
Net Weight		kg	197	197	224	227	247	394
Gross Weight		kg	223	223	248	250	272	446
Cabinet Color			Ivory white					
Gas Line		mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6
Liquid Line		mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Max.Indoor Unit Connectable			8	10	12	16	16	18
Noise Level		dB(A)	56	57	59	60	61	61
Operation Range	Cooling Mode	℃	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52
	Heating Mode	℃	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15

Notes:

- Rated cooling capacity capacity is 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
- 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.



Hi-FLEXI X Series		HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
Model			AVWT-190UESZX	AVWT-210UESZX	AVWT-229UESZX	AVWT-250UESZX	AVWT-268UESZX	AVWT-290UESZX	AVWT-307UESZX
Combination			AVWT-76UESRX	AVWT-96UESRX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX
			AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
Power Supply			3Φ380-415V/50Hz						
Cooling Operatin	Cooling Capacity	kW	55.9	61.5	67	73.5	78.5	85	90
		Btu/h	190	210	229	250	268	290	307
	Power Consumption	kW	13.81	15.88	17.14	19.62	21.73	24.21	26.32
	EER		4.05	3.87	3.91	3.75	3.61	3.51	3.42
Heating Operatin	Heating Capacity	kW	62.5	69	75	82.5	87.5	95	100
	Power Consumption	kW	14.50	16.49	17.77	19.97	21.36	23.55	24.94
	COP		4.31	4.18	4.22	4.13	4.10	4.03	4.01
Air Flow Rate		m³/h	19,800	20,700	21,000	21,900	21,900	22,800	22,800
Outer Dimension	H	mm	1,720	1,720	1,720	1,720	1,720	1,720	1,720
	W	mm	950+1,210	950+1,210	1,210+1,210	1,210+1,210	1,210+1,210	1,210+1,210	1,210+1,210
	D	mm	765	765	765	765	765	765	765
Net Weight		kg	421	421	448	451	471	474	494
Gross Weight		kg	471	471	496	498	520	522	544
Cabinet Color			Ivory white						
Gas Line		mm	Φ28.6	Φ28.6	Φ28.6	Φ31.75	Φ31.75	Φ31.75	Φ31.75
Liquid Line		mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max.Indoor Unit Connectable			20	22	26	26	28	32	32
Noise Level		dB(A)	61	61	62	63	63	64	64
Operation Range	Cooling Mode	℃	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52
	Heating Mode	℃	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15

Notes:

- Rated cooling capacity capacity is 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
- 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.

| Outdoor Unit Specifications



Hi-FLEXI X Series		HP	34HP	36HP	38HP	40HP	42HP
Model			AVWT-324UESZX	AVWT-343UESZX	AVWT-365UESZX	AVWT-386UESZX	AVWT-404UESZX
Combination			AVWT-96UESRX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX
			AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-154UESSX	AVWT-136UESSX
			AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX	AVWT-114UESSX	AVWT-154UESSX
Power Supply			3Φ380-415V/50Hz				
Cooling Operatin	Cooling Capacity	kW	95	100.5	107	112	118.5
		Btu/h	324	343	365	386	404
	Power Consumption	kW	24.45	25.70	28.19	30.29	32.78
	EER		3.89	3.91	3.80	3.70	3.62
Heating Operatin	Heating Capacity	kW	106.5	112.5	120	125	132.5
	Power Consumption	kW	25.38	26.66	28.86	30.24	32.44
	COP		4.20	4.22	4.16	4.13	4.08
Air Flow Rate		m³/h	31,200	31,500	32,400	32,400	33,300
Outer Dimension	H	mm	1,720	1,720	1,720	1,720	1,720
	W	mm	950+1,210+1,210	1,210+1,210+1,210	1,210+1,210+1,210	1,210+1,210+1,210	1,210+1,210+1,210
	D	mm	765	765	765	765	765
Net Weight		kg	645	672	675	695	698
Gross Weight		kg	719	744	746	768	770
Cabinet Color			Ivory white				
Gas Line		mm	Φ31.75	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Liquid Line		mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max.indoor unit connectable			36	36	38	42	42
Noise Level		dB(A)	64	64	65	65	65
Operation Range	Cooling Mode	℃	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52
	Heating Mode	℃	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15

Notes:

1. Rated cooling capacity capacity is 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
- 2.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.
- 3.The final appearance of outdoor units is subject to the actual products.



Hi-FLEXI X Series		HP	44HP	46HP	48HP	50HP	52HP
Model			AVWT-420UESZX	AVWT-444UESZX	AVWT-460UESZX	AVWT-480UESZX	AVWT-500UESZX
Combination			AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX	AVWT-76UESRX	AVWT-96UESRX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-96UESRX	AVWT-96UESRX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
						AVWT-154UESSX	AVWT-154UESSX
Power Supply			3Φ380-415V/50Hz				
Cooling Operatin	Cooling Capacity	kW	123.5	130	135	140.4	146
		Btu/h	420	444	460	480	500
	Power Consumption	kW	34.88	37.37	39.47	38.87	40.94
	EER		3.54	3.48	3.42	3.61	3.57
Heating Operatin	Heating Capacity	kW	137.5	145	150	156.5	163
	Power Consumption	kW	33.82	36.02	37.41	38.16	40.16
	COP		4.07	4.03	4.01	4.10	4.06
Air Flow Rate		m³/h	33,300	34,200	34,200	42,300	43,200
Outer Dimension	H	mm	1,720	1,720	1,720	1,720	1,720
	W	mm	1,210+1,210+1,210	1,210+1,210+1,210	1,210+1,210+1,210	950+950+1,210+1,210	950+950+1,210+1,210
	D	mm	765	765	765	765	765
Net Weight		kg	718	721	741	888	888
Gross Weight		kg	792	794	816	990	990
Cabinet Color			Ivory white				
Gas Line		mm	Φ38.1	Φ38.1	Φ38.1	Φ44.4	Φ44.4
Liquid Line		mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max.Indoor Unit Connectable			44	48	48	50	52
Noise Level		dB(A)	65	65	65	66	66
Operation Range	Cooling Mode	℃	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52
	Heating Mode	℃	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15	-20 ~ 15

Notes:

1. Rated cooling capacity capacity is 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
- 2.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.
- 3.The final appearance of outdoor units is subject to the actual products.
- 4.For 4 modular combination please contact manufacture for special design.

| Outdoor Unit Specifications



Hi-FLEXI X Series		HP	54HP	56HP	58HP
Model			AVWT-520UESZX	AVWT-540UESZX	AVWT-560UESZX
Combination			AVWT-96UESRX	AVWT-114UESSX	AVWT-114UESSX
			AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
Power Supply			3Φ380-415V/50Hz		
Cooling Operatin	Cooling Capacity	kW	151.5	157	163.5
		Btu/h	520	540	560
	Power Consumption	kW	42.19	43.45	45.93
	EER		3.59	3.61	3.56
Heating Operatin	Heating Capacity	kW	169	175	182.5
	Power Consumption	kW	41.43	42.71	44.91
	COP		4.08	4.10	4.06
Air Flow Rate		m³/h	43,500	43,800	44,700
Outer Dimension	H	mm	1,720	1,720	1,720
	W	mm	950+1,210+1,210+1,210	1,210+1,210+1,210+1,210	1,210+1,210+1,210+1,210
	D	mm	765	765	765
Net Weight		kg	915	942	945
Gross Weight		kg	1,015	1,040	1,040
Cabinet Color			Ivory white		
Gas Line		mm	Φ44.4	Φ44.4	Φ44.4
Liquid Line		mm	Φ19.05	Φ22.2	Φ22.2
Max.Indoor Unit Connectable			54	56	60
Noise Level		dB(A)	66	66	67
Operation Range	Cooling Mode	℃	-5 ~ 52	-5 ~ 52	-5 ~ 52
	Heating Mode	℃	-20 ~ 15	-20 ~ 15	-20 ~ 15

Notes:

1. Rated cooling capacity capacity is 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
- 2.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.
- 3.The final appearance of outdoor units is subject to the actual products.
- 4.For 4 modular combination please contact manufacture for special design.



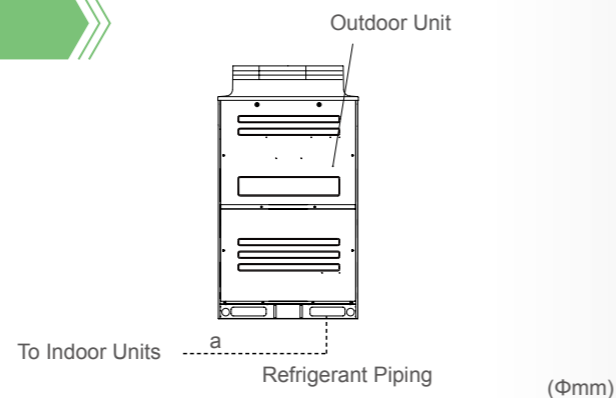
Hi-FLEXI X Series		HP	60HP	62HP	64HP
Model			AVWT-580UESZX	AVWT-600UESZX	AVWT-620UESZX
Combination			AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
			AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
Power Supply			3Φ380-415V/50Hz		
Cooling Operatin	Cooling Capacity	kW	168.5	175	180
		Btu/h	580	600	620
	Power Consumption	kW	48.04	50.52	52.63
	EER		3.51	3.46	3.42
Heating Operatin	Heating Capacity	kW	187.5	195	200
	Power Consumption	kW	46.29	48.49	49.88
	COP		4.05	4.02	4.01
Air Flow Rate		m³/h	44,700	45,600	45,600
Outer Dimension	H	mm	1,720	1,720	1,720
	W	mm	1,210+1,210+1,210+1,210	1,210+1,210+1,210+1,210	1,210+1,210+1,210+1,210
	D	mm	765	765	765
	Net Weight		kg	965	968
Gross Weight		kg	1,064	1,066	1,088
Cabinet Color			Ivory white		
Gas Line		mm	Φ44.4	Φ44.4	Φ44.4
Liquid Line		mm	Φ22.2	Φ22.2	Φ22.2
Max.Indoor Unit Connectable			60	64	64
Noise Level		dB(A)	67	67	67
Operation Range	Cooling Mode	℃	-5 ~ 52	-5 ~ 52	-5 ~ 52
	Heating Mode	℃	-20 ~ 15	-20 ~ 15	-20 ~ 15

Notes:

1. Rated cooling capacity capacity is 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
- 2.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.
- 3.The final appearance of outdoor units is subject to the actual products.
- 4.For 4 modular combination please contact manufacture for special design.

| Piping Connection

Piping Size for Base Unit

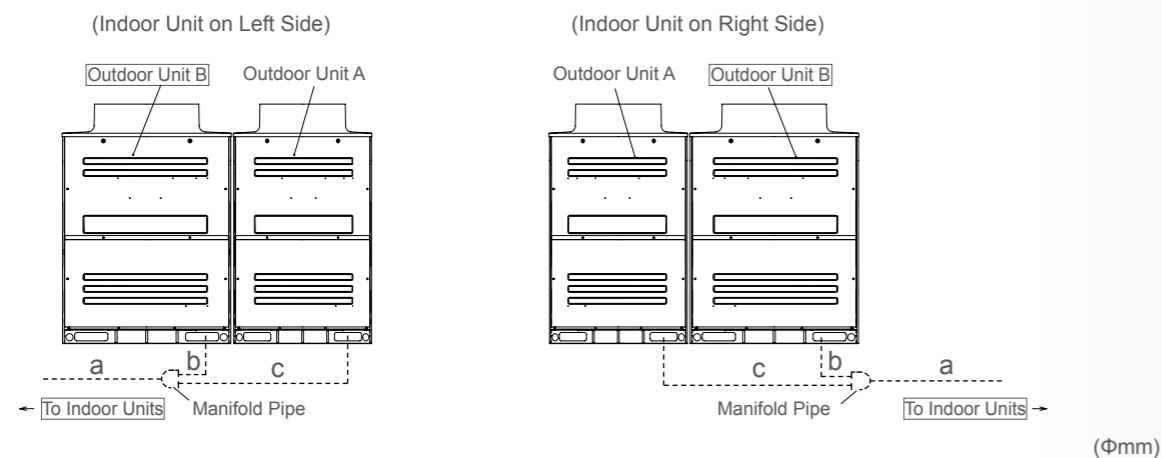


(Φmm)

Model(KBtu/h)			76	96	114	136	154
Piping Size	a	Gas	19.05	22.2	25.4	25.4	28.6
		Liquid	9.53	9.53	12.7	12.7	12.7

Piping Size for Two Units Combination

< Figure for AVWT-210UESZX>



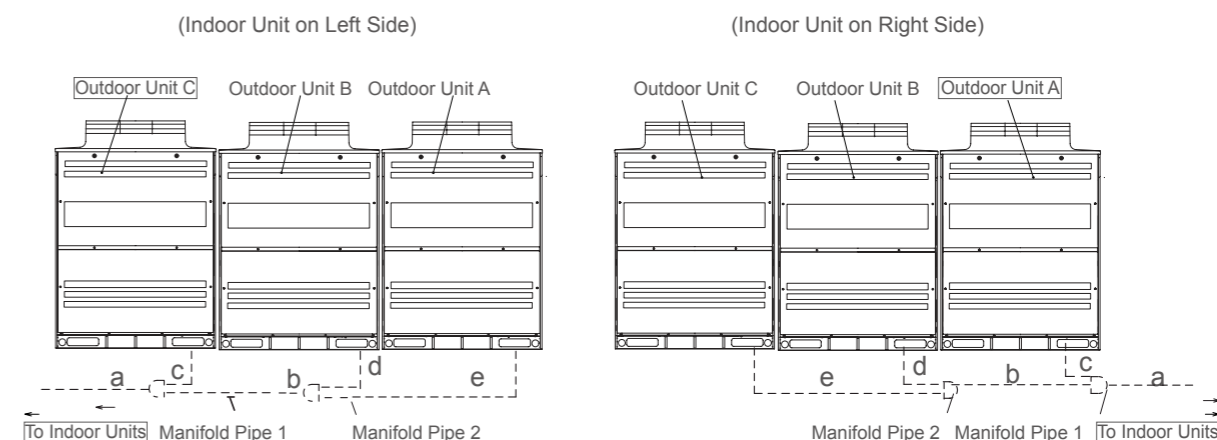
(Φmm)

Model		AVWT-172UESZX	AVWT-190UESZX	AVWT-210UESZX	AVWT-229UESZX	AVWT-250UESZX	AVWT-268UESZX	AVWT-290UESZX	AVWT-307UESZX
Combination Unit	Outdoor Unit A	AVWT-76UESRX	AVWT-76UESRX	AVWT-96UESRX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX
	Outdoor Unit B	AVWT-96UESRX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
Manifold Pipe		HFQ-M22F				HFQ-M32F			
Piping Size	a	Gas	28.6	28.6	28.6	28.6	31.75	31.75	31.75
		Liquid	15.88	15.88	15.88	15.88	19.05	19.05	19.05
	b	Gas	22.2	25.4	25.4	25.4	25.4	25.4	28.6
		Liquid	9.53	12.7	12.7	12.7	12.7	12.7	12.7
	c	Gas	19.05	19.05	22.2	25.4	25.4	25.4	28.6
		Liquid	9.53	9.53	9.53	12.7	12.7	12.7	12.7

* Perform the installation of the outdoor unit and piping connection according to the figure.
Refer to the table for the outdoor unit model, the Manifold Pipe model and the piping diameter.

Piping Size for Three Units Combination

< Figure for AVWT-365UESZX>



(Φmm)

Model		AVWT-324UESZX	AVWT-343UESZX	AVWT-365UESZX	AVWT-386UESZX	AVWT-404UESZX	AVWT-420UESZX	AVWT-444UESZX	AVWT-460UESZX
Combination Unit	Outdoor Unit A	AVWT-96UESRX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX
	Outdoor Unit B	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
	Outdoor Unit C	AVWT-114UESSX	AVWT-114UESSX	AVWT-136UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX	AVWT-154UESSX
Manifold Pipe1		HFQ-M32F				HFQ-M32F			
Manifold Pipe2		HFQ-M22F				HFQ-M32F			
Piping Size	a	Gas	31.75	38.1	38.1	38.1	38.1	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	b	Gas	28.6	28.6	28.6	28.6	31.75	31.75	31.75
		Liquid	15.88	15.88	15.88	15.88	19.05	19.05	19.05
	c	Gas	25.4	25.4	25.4	28.6	28.6	28.6	28.6
		Liquid	12.7	12.7	12.7	12.7	12.7	12.7	12.7
Piping Size	d	Gas	25.4	25.4	25.4	25.4	28.6	28.6	28.6
		Liquid	12.7	12.7	12.7	12.7	12.7	12.7	12.7
	e	Gas	22.2	25.4	25.4	25.4	25.4	25.4	28.6
		Liquid	9.53	12.7	12.7	12.7	12.7	12.7	12.7

* Perform the installation of the outdoor unit and piping connection according to the figure.
Refer to the table for the outdoor unit model, the Manifold Pipe model and the piping diameter.

Hi-FLEXi M Series

DC Inverter-driven Compressor

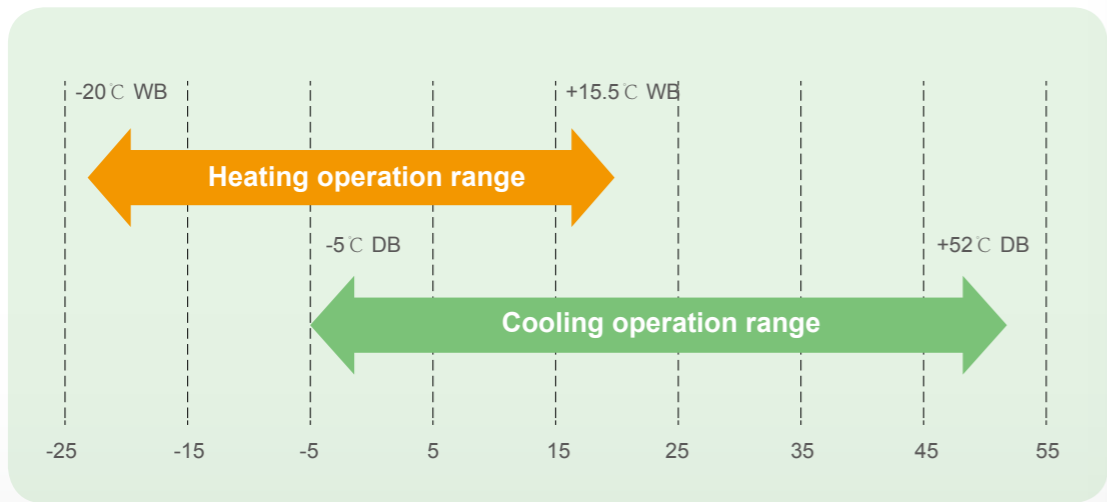
Hisense VRF Hi-FLEXi M Series inverter air conditioning system adopt high efficiency scroll compressor and leading frequency inverter control technology, realizing significant improvement in operation efficiency under partial load.

- High efficiency inverter + fixed compressor
- Leading inverter control technology
- Small volume and light weight, save transport and installation space
- Intelligent control system

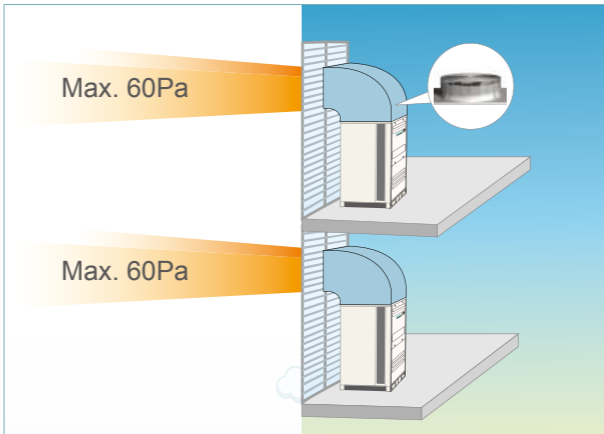


Wide Operating Range

The system can run within a wide temperature range, the lowest heating operation can reach -20°C WB, ensure a good heating effect in winter.



Extra-high External Static Pressure Design

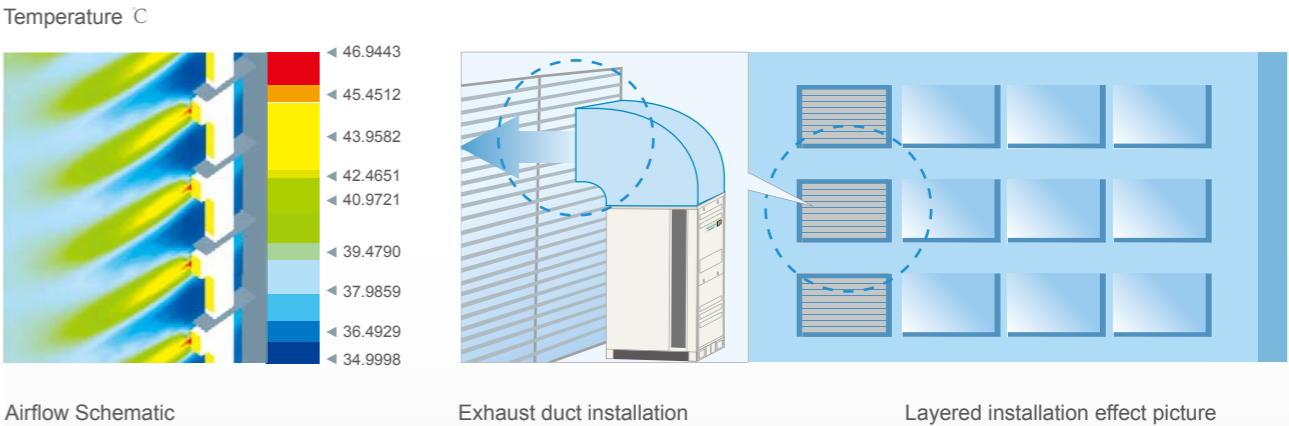


- Adopt high-efficiency DC fan motor
- The use of high-efficiency fan reduces energy consumption of the motor
- Can achieve industry-leading level of external static pressure 60Pa

The efficient axial fan is designed adopting CFD, finite element method, aviation dynamic fluid simulation analysis and other advanced concepts; its air inlet angle and outlet angle are optimized; together with unique horn air vent design, the external static pressure of outdoor unit is higher, which can better exhaust air and ensure smooth air flow.

Layered Installation, Flexibly Corresponding to High-rise Buildings

For high-rise buildings, crawl space can be left to place outdoor units, or machine room can be set up on each floor. By using exhaust duct to exhaust the air, short circuit of return air can be avoided with long exhaust distance, which ensures good ventilation and heat exchange effects of outdoor units.



Airflow Schematic

Exhaust duct installation

Layered installation effect picture

| More Flexible Refrigerant Piping Work

Max. piping length: 190m*
Max. total piping length: 1000m

Height difference between outdoor
and indoor unit
Outdoor unit is higher: 70m*
Outdoor unit is lower: 90m*

Max. Height Difference
Between Indoor Units: 30m*

Max. piping length between 1st
branch and indoor unit: 90m

Note: For data marked by *, please contact with our engineer.

| Outdoor Unit Specifications



Hi-FLEXi M Series		HP	8HP	10HP	12HP	14HP	16HP
Model Power Supply	AC3Φ380 ~ 415V/50Hz		AVWT-86U6SR	AVWT-96U6SR	AVWT-114U6SR	AVWT-136U6SS	AVWT-154U6SS
	AC3Φ380V/60Hz		AVWT-86U7SR	AVWT-96U7SR	AVWT-114U7SR	AVWT-136U7SS	AVWT-154U7SS
	AC3Φ220V/60Hz		AVWT-86U9SR	AVWT-96U9SR	AVWT-114U9SR	AVWT-136U9SS	AVWT-154U9SS
Cooling Operation	Nominal Capacity	kW	25.2	28	33.5	40	45
		KBtu/h	86.0	95.5	114.3	136.5	153.5
	Power Consumption	kW	6.36	7.65	10.18	12.31	13.93
	EER		3.96	3.66	3.29	3.25	3.23
Heating Opeartion	Nominal Capacity	kW	27	31.5	37.5	45	50
		KBtu/h	92.1	107.5	128.0	153.5	170.6
	Power Consumption	kW	6.54	7.76	10.12	11.55	12.82
	COP		4.13	4.06	3.71	3.90	3.90
Air Flow Rate		m³/h	9,300	10,200	10,500	11,700	11,700
Outer Dimension (H×W×D)		mm	1,720×950×750			1,720×1,210×750	
Packing Dimension (H×W×D)		mm	1,890×1,000×810	1,890×1,000×810	1,890×1,000×810	1,890×1,260×810	1,890×1,260×810
Net Weight		Kg	223	225	228	295	310
Gross Weight		Kg	235	237	255	310	325
Compressor Quantity			1	1	1	2	2
Condenser Fan Quantity			1	1	1	1	1
Cabinet Color			Ivory White			Ivory White	
Refrigerant Piping	Gas Line	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6
	Liquid Line	mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7
Max. number of connectable IDU			13	16	19	23	26
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	58	58	60	60	62
Operation Range	Cooling	℃ DB	-5~52	-5~52	-5~52	-5~52	-5~52
	Heating	℃ WB	-20~15.5	-20~15.5	-20~15.5	-20~15.5	-20~15.5

Notes:

- 1.The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27℃ DB(80°F DB), 19.0℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB(68°F DB),
Outdoor Air Inlet Temperature: 7℃ DB(45°F DB), 6℃ WB(43°F WB)
- 2.The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3.Except for the specified combination in the table, there is no other combination of the base unit.
4.The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5.For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.

| Outdoor Unit Specifications



Hi-FLEXi M Series		HP	18HP	20HP	22HP	24HP	26HP
Model Power Supply	AC3Φ380 ~ 415V/50Hz		AVWT-182U6SZ	AVWT-190U6SZ	AVWT-210U6SZ	AVWT-232U6SZ	AVWT-250U6SZ
	AC3Φ380V/60Hz		AVWT-182U7SZ	AVWT-190U7SZ	AVWT-210U7SZ	AVWT-232U7SZ	AVWT-250U7SZ
	AC3Φ220V/60Hz		AVWT-182U9SZ	AVWT-190U9SZ	AVWT-210U9SZ	AVWT-232U9SZ	AVWT-250U9SZ
Combination			AVWT-86U* AVWT-96U*	AVWT-96U* AVWT-96U*	AVWT-86U* AVWT-136U*	AVWT-96U* AVWT-136U*	AVWT-114U* AVWT-136U*
Cooling Operation	Nominal Capacity	kW	53.2	56	61.5	68	73
		KBtu/h	181.5	191.1	209.8	232.0	249.1
	Power Consumption	kW	14.01	15.3	18.67	19.96	22.49
	EER		3.80	3.66	3.29	3.41	3.25
Heating Opeartion	Nominal Capacity	kW	58.5	63	69	76.5	81.5
		KBtu/h	199.6	215.0	235.4	261.0	278.1
	Power Consumption	kW	14.3	15.52	18.09	19.31	21.67
	COP		4.09	4.06	3.98	3.96	3.81
Air Flow Rate		m³/h	19,500	20,400	21,000	21,900	22,200
Outer Dimension (H×W×D)		mm	1,720× (950+950) ×750		1,720× (950+1,210) ×750		
Packing Dimension (H×W×D)		mm	---	---	---	---	---
Net Weight		Kg	223+225	225+225	223+295	225+295	225+295
Gross Weight		Kg	235+237	237×2	235+310	237+310	255+310
Compressor Quantity			2	2	3	3	3
Condenser Fan Quantity			2	2	2	2	2
Cabinet Color			Ivory White		Ivory White		
Refrigerant Piping	Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ31.75
	Liquid Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05
Max. number of connectable IDU			26	33	36	40	43
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	61	61	62	63	63
Operation Range	Cooling	℃ DB	-5~52	-5~52	-5~52	-5~52	-5~52
	Heating	℃ WB	-20~15.5	-20~15.5	-20~15.5	-20~15.5	-20~15.5

Notes:

- 1.The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 ℃ DB(80°F DB), 19.0 ℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 ℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20 ℃ DB(68°F DB),
Outdoor Air Inlet Temperature: 7 ℃ DB(45°F DB), 6 ℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.



Hi-FLEXi M Series		HP	28HP	30HP	32HP
Model Power Supply	AC3Φ380 ~ 415V/50Hz		AVWT-272U6SZ	AVWT-290U6SZ	AVWT-307U6SZ
	AC3Φ380V/60Hz		AVWT-272U7SZ	AVWT-290U7SZ	AVWT-307U7SZ
	AC3Φ220V/60Hz		AVWT-272U9SZ	AVWT-290U9SZ	AVWT-307U9SZ
Combination			AVWT-136U* AVWT-136U*	AVWT-136U* AVWT-154U*	AVWT-154U* AVWT-154U*
Cooling Operation	Nominal Capacity	kW	78.5	85	90
		KBtu/h	267.8	290.0	307.1
	Power Consumption	kW	24.62	26.24	27.86
	EER		3.17	3.24	3.23
Heating Opeartion	Nominal Capacity	kW	87.5	95	100
		KBtu/h	298.6	324.1	341.2
	Power Consumption	kW	23.1	24.37	25.64
	COP		3.90	3.90	3.90
Air Flow Rate		m³/h	23,400	23,400	23,400
Outer Dimension (H×W×D)		mm	1,720x(1,210+1,210)x750		
Packing Dimension (H×W×D)		mm	---	---	---
Net Weight		Kg	295+295	295+310	310+310
Gross Weight		Kg	310+310	310+325	325+325
Compressor Quantity			4	4	4
Condenser Fan Quantity			2	3	3
Cabinet Color			Ivory White		
Refrigerant Piping	Gas Line	mm	Φ31.75	Φ31.75	Φ31.75
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
Max. number of connectable IDU			47	50	53
Max. Piping Length		m	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	63	63	63
Operation Range	Cooling	℃ DB	-5~52	-5~52	-5~52
	Heating	℃ WB	-20~15.5	-20~15.5	-20~15.5

Notes:

- 1.The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 ℃ DB(80°F DB), 19.0 ℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 ℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20 ℃ DB(68°F DB),
Outdoor Air Inlet Temperature: 7 ℃ DB(45°F DB), 6 ℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.

| Outdoor Unit Specifications



Hi-FLEXi M Series		HP	34HP	36HP	38HP	40HP
Model Power Supply	AC3Φ380 ~ 415V/50Hz		AVWT-328U6SZ	AVWT-345U6SZ	AVWT-365U6SZ	AVWT-386U6SZ
	AC3Φ380V/60Hz		AVWT-328U7SZ	AVWT-345U7SZ	AVWT-365U7SZ	AVWT-386U7SZ
	AC3Φ220V/60Hz		AVWT-328U9SZ	AVWT-345U9SZ	AVWT-365U9SZ	AVWT-386U9SZ
Combination			AVWT-86U* AVWT-96U* AVWT-154U*	AVWT-96U* AVWT-96U* AVWT-154U*	AVWT-114U* AVWT-114U* AVWT-136U*	AVWT-114U* AVWT-114U* AVWT-154U*
Cooling Operation	Nominal Capacity	kW	96	101	106.5	113
		KBtu/h	327.6	344.6	365.1	385.6
	Power Consumption	kW	27.94	29.23	32.67	34.29
	EER		3.51	3.46	3.28	3.30
Heating Opeartion	Nominal Capacity	kW	108	113	119	126.5
		KBtu/h	368.5	385.6	406	431.6
	Power Consumption	kW	27.12	28.34	31.79	33.06
	COP		3.98	3.99	3.77	3.78
Air Flow Rate		m³/h	31,200	32,100	32,700	32,700
Outer Dimension (H×W×D)		mm	1,720x(950+950+1,210)x750			
Packing Dimension (H×W×D)		mm	---	---	---	---
Net Weight		Kg	208+210+310	225+225+310	228+228+295	228+228+310
Gross Weight		Kg	235+237+325	237+237+325	255+255+310	255+255+325
Compressor Quantity			4	4	4	4
Condenser Fan Quantity			3	3	3	3
Cabinet Color			Ivory White			
Refrigerant Piping	Gas Line	mm	Φ31.75	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max. number of connectable IDU			56	59	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	64	64	64	64
Operation Range	Cooling	℃ DB	-5~52	-5~52	-5~52	-5~52
	Heating	℃ WB	-20~15.5	-20~15.5	-20~15.5	-20~15.5

Notes:

- 1.The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 ℃ DB(80°F DB), 19.0 ℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 ℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20 ℃ DB(68°F DB),
Outdoor Air Inlet Temperature: 7 ℃ DB(45°F DB), 6 ℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.



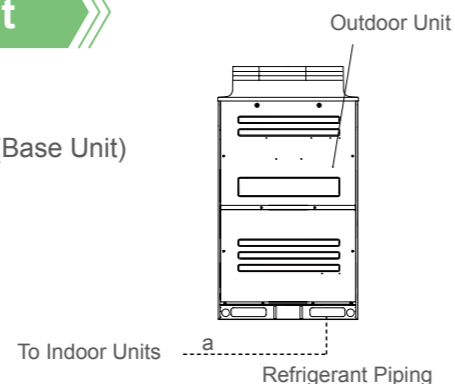
Hi-FLEXi M Series		HP	42HP	44HP	46HP	48HP
Model Power Supply	AC3Φ380 ~ 415V/50Hz		AVWT-402U6SZ	AVWT-426U6SZ	AVWT-444U6SZ	AVWT-460U6SZ
	AC3Φ380V/60Hz		AVWT-402U7SZ	AVWT-426U7SZ	AVWT-444U7SZ	AVWT-460U7SZ
	AC3Φ220V/60Hz		AVWT-402U9SZ	AVWT-426U9SZ	AVWT-444U9SZ	AVWT-460U9SZ
Combination			AVWT-114U* AVWT-136U* AVWT-154U*	AVWT-114U* AVWT-154U* AVWT-154U*	AVWT-136U* AVWT-154U* AVWT-154U*	AVWT-154U* AVWT-154U* AVWT-154U*
Cooling Operation	Nominal Capacity	kW	118	123.5	130	135
		KBtu/h	402.6	421.4	443.6	460.6
	Power Consumption	kW	36.42	38.04	40.17	41.79
	EER		3.24	3.25	3.24	3.23
Heating Opeartion	Nominal Capacity	kW	131.5	137.5	145	150
		KBtu/h	448.7	469.2	494.7	511.8
	Power Consumption	kW	34.49	35.76	37.19	38.46
	COP		3.84	3.85	3.90	3.90
Air Flow Rate		m³/h	33,900	33,900	35,100	35,100
Outer Dimension (H×W×D)		mm	1,720×(950+1,210+1,210)×750		1,720×(1,210+1,210+1,210)×750	
Packing Dimension (H×W×D)		mm	---	---	---	---
Net Weight		Kg	228+295+310	228+310+310	295+310+310	310+310+310
Gross Weight		Kg	255+310+325	255+325+325	310+325+325	325+325+325
Compressor Quantity			6	6	6	6
Condenser Fan Quantity			3	3	3	3
Cabinet Color			Ivory White			
Refrigerant Piping	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Max. number of connectable IDU			64	64	64	64
Max. Piping Length		m	165(190*)	165(190*)	165(190*)	165(190*)
Height Difference	Between ODU&IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	64	64	65	65
Operation Range	Cooling	℃ DB	-5~52	-5~52	-5~52	-5~52
	Heating	℃ WB	-20~15.5	-20~15.5	-20~15.5	-20~15.5

Notes:

- 1.The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 ℃ DB(80°F DB), 19.0 ℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 ℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20 ℃ DB(68°F DB),
Outdoor Air Inlet Temperature: 7 ℃ DB(45°F DB), 6 ℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.

Pipe Diameter for Outdoor Unit

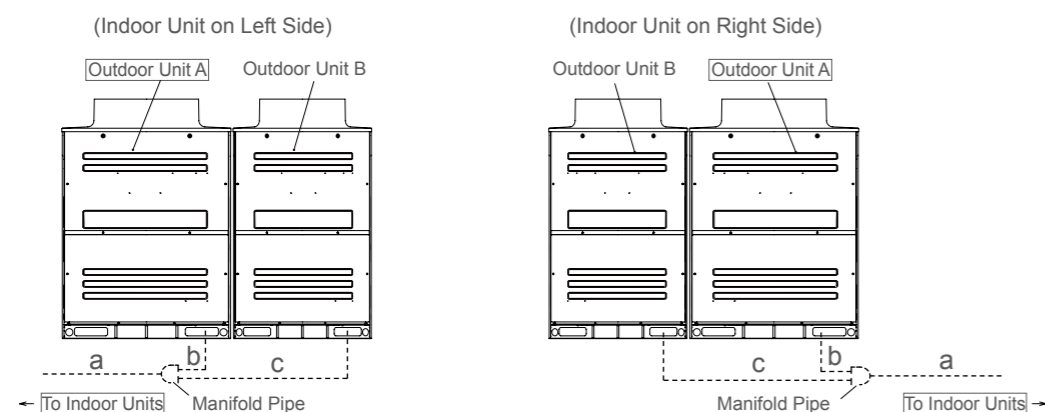
Piping Size for AVWT-86U6(7)SR to AVWT-154U6(7)SS (Base Unit)



Model			AVWT-86U6(7)SR	AVWT-96U6(7)SR	AVWT-114U6(7)SR	AVWT-136U6(7)SS	AVWT-154U6(7)SS
Piping Size	a	Gas	19.05	22.2	25.4	25.4	28.6
		Liquid	9.53	9.53	12.7	12.7	12.7

Piping Size for AVWT-182U6(7)SZ to AVWT-307U6(7)SZ(2 Units Combination)

< Figure for AVWT-232UE(7)SZ >

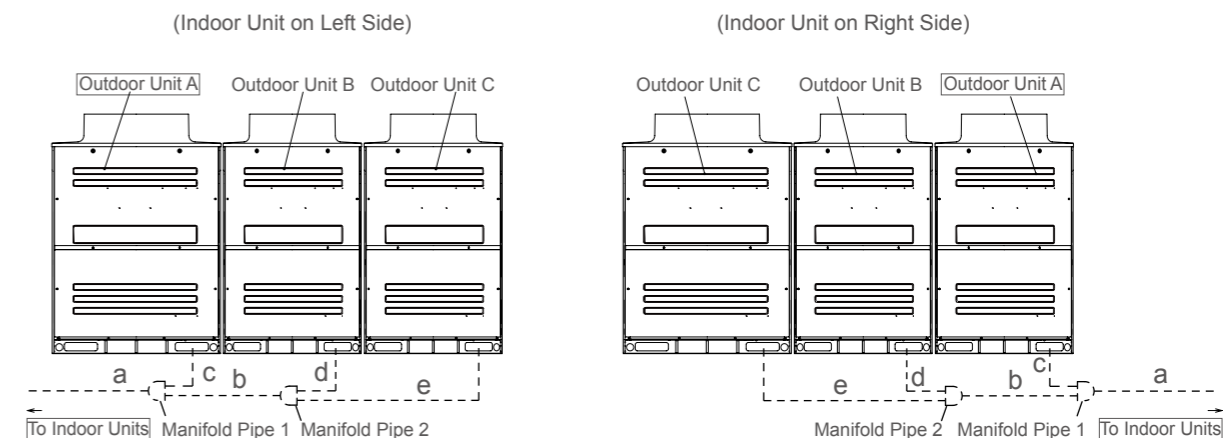


Model		AVWT-182*	AVWT-190*	AVWT-210*	AVWT-232*	AVWT-250*	AVWT-272*	AVWT-290*	AVWT-307*
Combination Unit	Outdoor Unit A	AVWT-96*	AVWT-96*	AVWT-136*	AVWT-136*	AVWT-136*	AVWT-136*	AVWT-154*	AVWT-154*
	Outdoor Unit B	AVWT-86*	AVWT-96*	AVWT-86*	AVWT-96*	AVWT-114*	AVWT-136*	AVWT-136*	AVWT-154*
Manifold Pipe		HFQ-M22F				HFQ-M32F			
Piping Size	a	Gas	28.6	28.6	28.6	28.6	31.75	31.75	31.75
		Liquid	15.88	15.88	15.88	15.88	19.05	19.05	19.05
	b	Gas	22.2	22.2	25.4	25.4	25.4	28.6	28.6
		Liquid	9.53	9.53	12.7	12.7	12.7	12.7	12.7
	c	Gas	19.05	22.2	19.05	22.2	25.4	25.4	28.6
		Liquid	9.53	9.53	9.53	9.53	12.7	12.7	12.7

* Perform the installation of the outdoor unit and piping connection according to the figure.
Refer to the table for the outdoor unit model, the manifold pipe model and the piping diameter.

Piping Size for AVWT-328U6(7)SZ to AVWT-460U6(7)SZ(Triple Units Combination)

< Figure for AVWT-365U6(7)SZ >



Model		AVWT-328*	AVWT-345*	AVWT-365*	AVWT-386*	AVWT-402*	AVWT-426*	AVWT-444*	AVWT-460*
Combination Unit	Outdoor Unit A	AVWT-154*	AVWT-154*	AVWT-136*	AVWT-154*	AVWT-154*	AVWT-154*	AVWT-154*	AVWT-154*
	Outdoor Unit B	AVWT-96*	AVWT-96*	AVWT-114*	AVWT-114*	AVWT-136*	AVWT-154*	AVWT-154*	AVWT-154*
	Outdoor Unit C	AVWT-86*	AVWT-96*	AVWT-114*	AVWT-114*	AVWT-114*	AVWT-114*	AVWT-136*	AVWT-154*
Manifold Pipe		HFQ-M22F + HFQ-M32F				HFQ-M32F + HFQ-M32F			
Piping Size	a	Gas	31.75	38.1	38.1	38.1	38.1	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	b	Gas	28.6	28.6	28.6	28.6	31.75	31.75	31.75
		Liquid	15.88	15.88	15.88	15.88	19.05	19.05	19.05
	c	Gas	28.6	28.6	25.4	28.6	28.6	28.6	28.6
		Liquid	12.7	12.7	12.7	12.7	12.7	12.7	12.7
	d	Gas	22.2	22.2	25.4	25.4	25.4	28.6	28.6
		Liquid	9.53	9.53	12.7	12.7	12.7	12.7	12.7
	e	Gas	19.05	22.2	25.4	25.4	25.4	25.4	28.6
		Liquid	9.53	9.53	12.7	12.7	12.7	12.7	12.7

* Perform the installation of the outdoor unit and piping connection according to the figure.
Refer to the table for the outdoor unit model, the manifold pipe model and the piping diameter.

Hi-FLEXi R Series

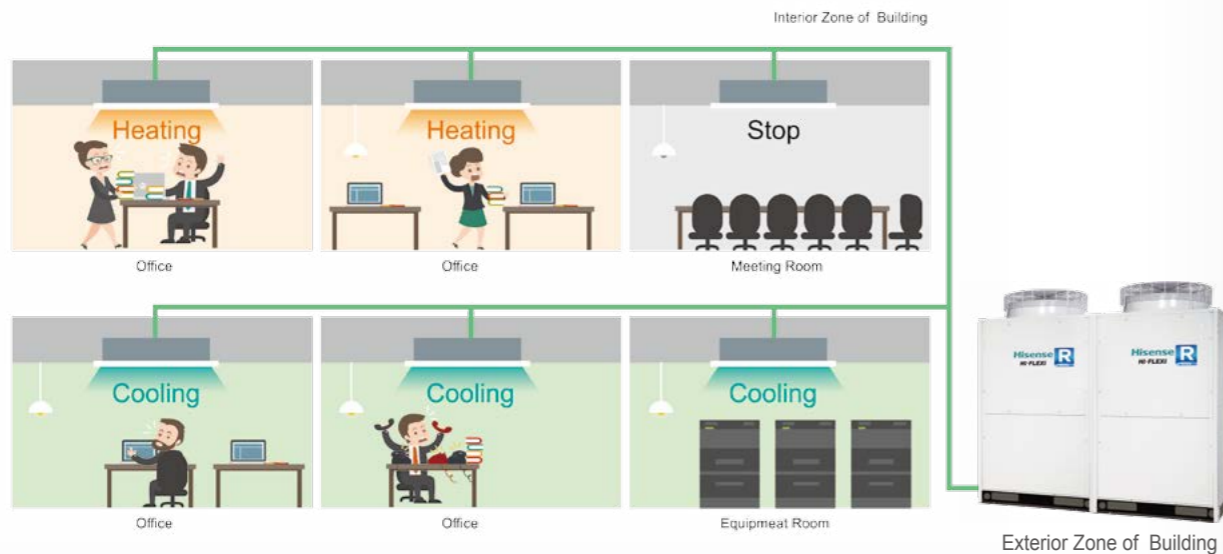
Humanized Design, Flexible
Response to Different Demand

Hisense Hi-FLEXi R Series heat recovery air conditioning systems can realize simultaneous cooling and heating operation within one refrigerating system, which not only contributes to energy conservation but also meets various requirements of different consumers.

- High efficiency scroll compressor
- Simultaneous cooling and heating
- Latest inverter control technology
- Intelligent control system



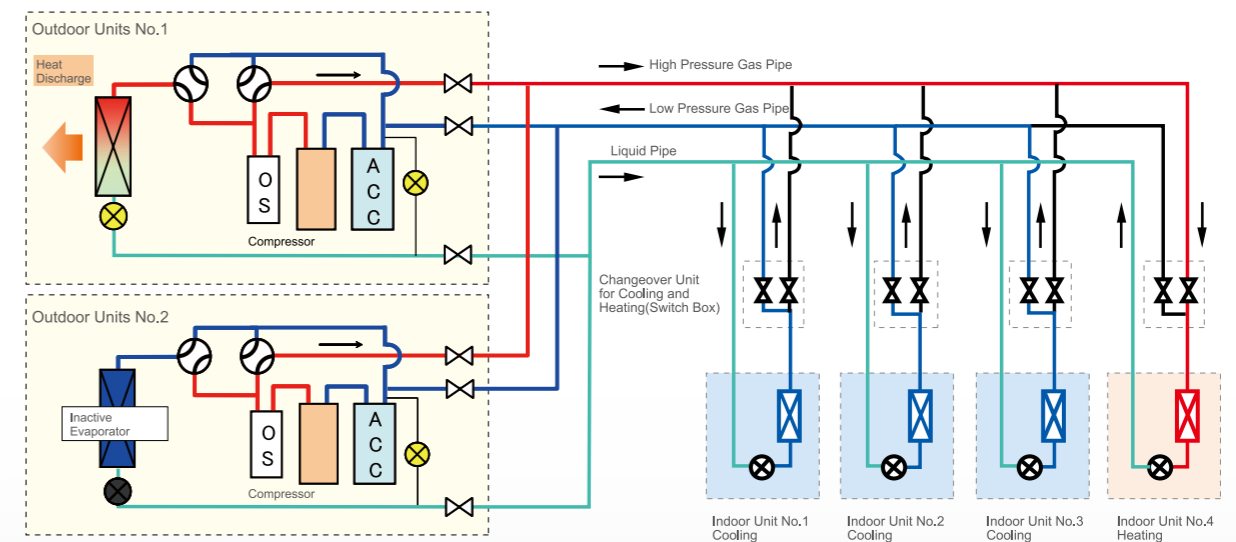
Heat Recovery



Meeting various requirements of customers who are sensitive to temperature and diverse space with different function from the perspective of humanity especially at the transition season, like the complex of equipment rooms and offices, or the guest rooms and dining hall in the same hotel etc.

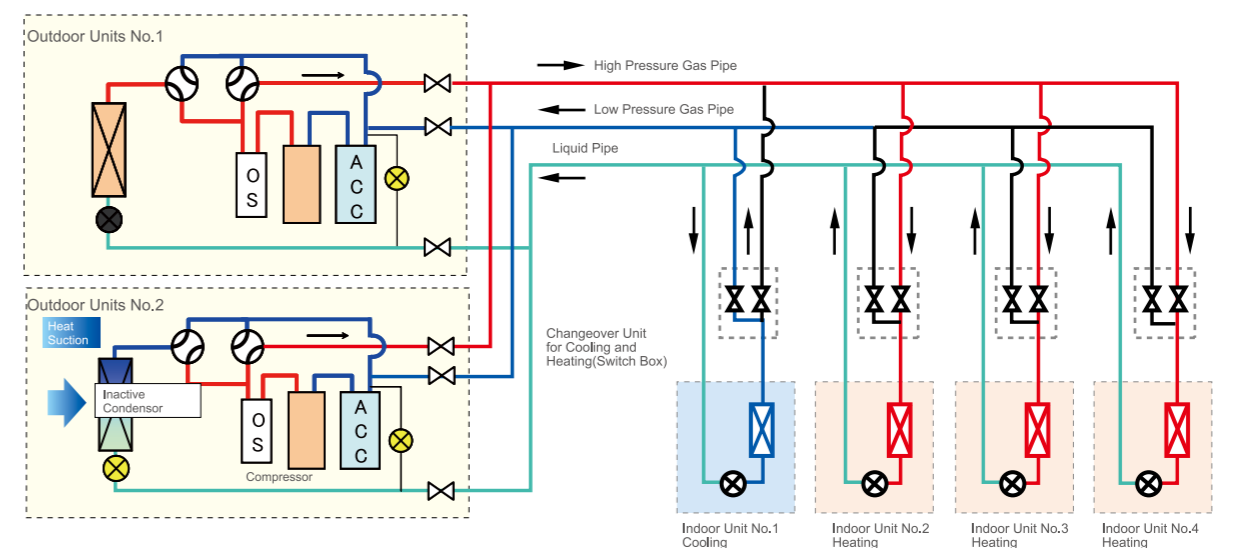
The latest heat recovery multi-split system make season indoor units work in cooling and heating at the same time and being switched between two modes individually, which flexibly satisfies personalized need of different users.

Cooling Domination Mode



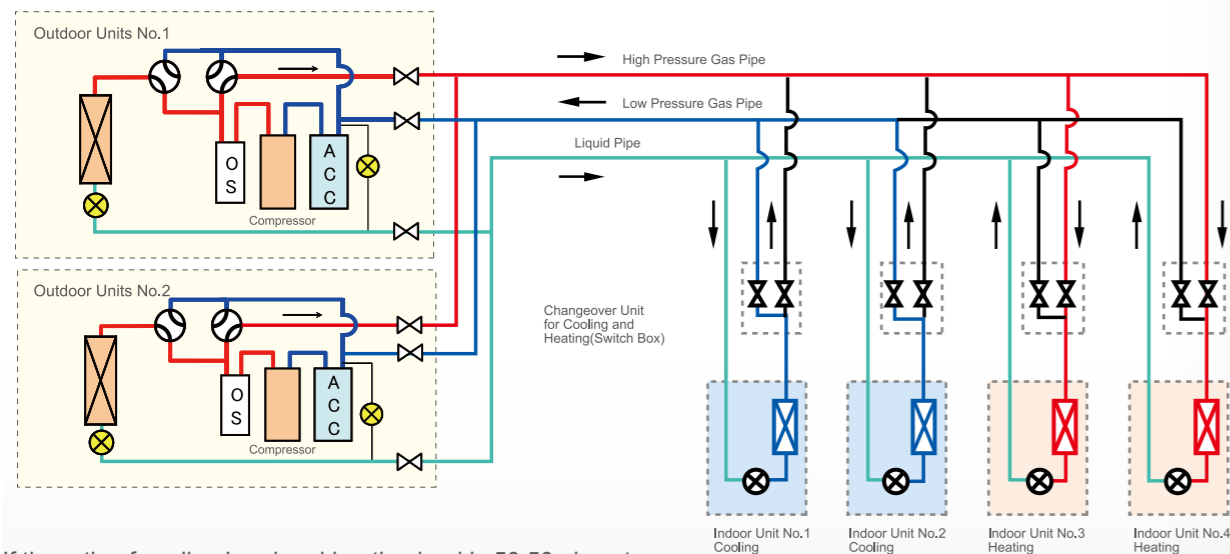
When total indoor heating load is less than cooling load, heat is being transferred from cooling room to heating room, part of heat exchanger is used as condenser to exhaust the redundant heat.

Heating Domination Mode



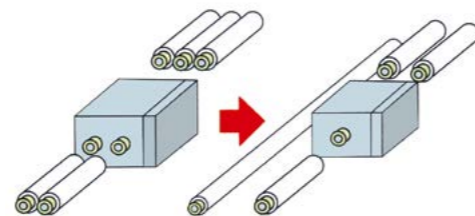
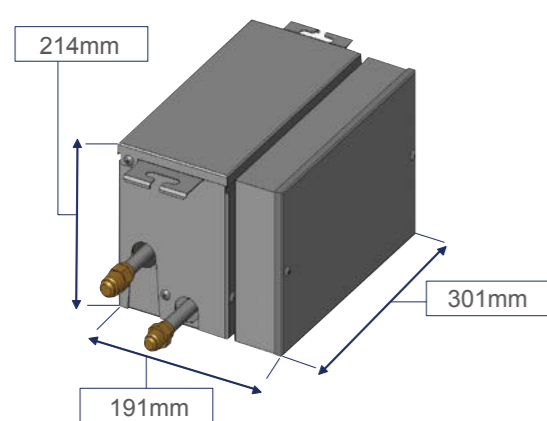
When total indoor heating load is more than cooling load, heat is being transferred from cooling room to heating room, part of heat exchanger is used as evaporator to compensate the required heat.

Cooling/Heating Equilibrium Mode



If the ratio of cooling Load and heating load is 50:50, almost all the heat is moving among indoor units

CH Box (heat recovery system only)



Others

Hisense

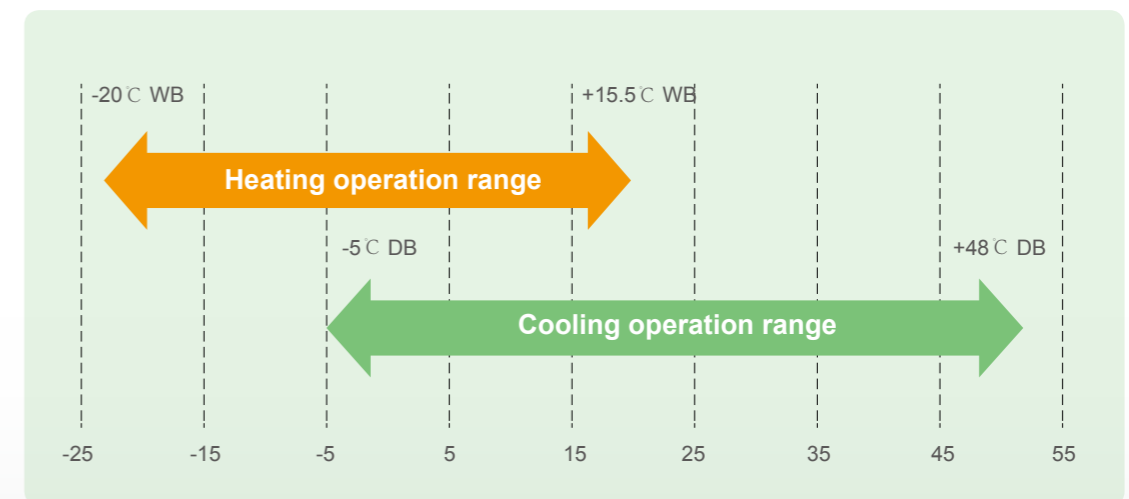
- Changeover box for heat recovery application
- Compact and light design
- Minimized unit and less suspension bolts facilitate installation and handing methods

Model	Specifications		Indoor Unit Connection	
	Specifications W×D×H (mm)	Net Weight(kg)	Total HP	Number of Indoor Units*
HCH-160D	301×214×191	7	6HP≥	1~7
HCH-280D			6.1HP to 10HP	1~8

*When multiple indoor units are connected to the same CH unit, they are controlled with the same operation mode.

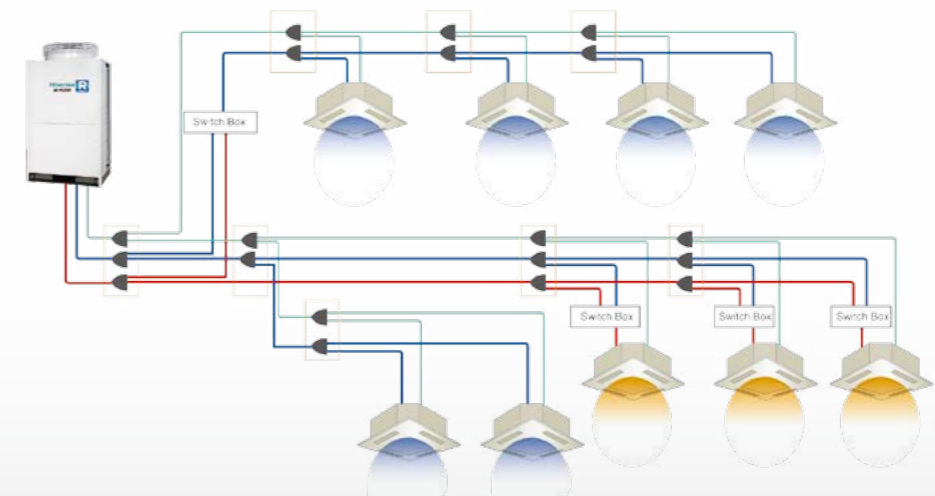
Wide Operating Range

The system can run within a wide temperature range, the lowest heating operation can reach -20℃ WB, ensure a good heating effect in winter.

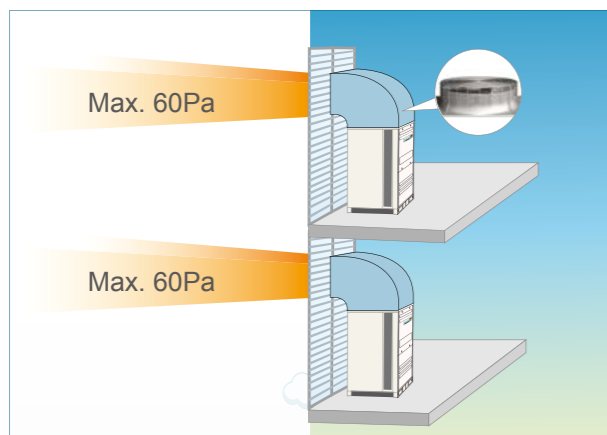


Configuration of Heat Recovery Operation System

Hi-Flexi R Series heat recovery operation system is composed of heat recovery outdoor unit, indoor unit, switch box, branch pipes and refrigerant pipes. One switch box unit could connect to one or multiple indoor units. The indoor units equipped with a same switch box unit will keep the same operation mode.



Extra-high External Static Pressure Design



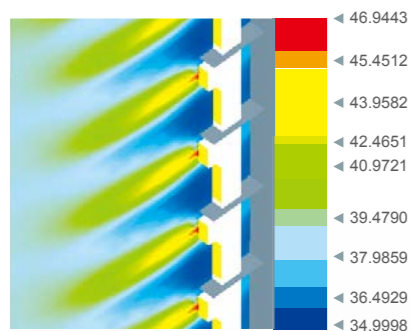
- Adopt high-efficiency DC fan motor
- The use of high-efficiency fan reduces energy consumption of the motor
- Can achieve industry-leading level of external static pressure 60Pa

The efficient axial fan is designed adopting CFD, finite element method, aviation dynamic fluid simulation analysis and other advanced concepts; its air inlet angle and outlet angle are optimized; together with unique horn air vent design, the external static pressure of outdoor unit is higher, which can better exhaust air and ensure smooth air flow.

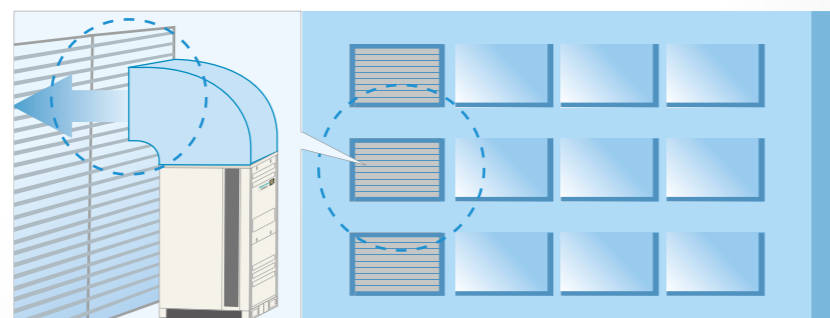
Layered Installation, Flexibly Corresponding to High-rise Buildings

For high-rise buildings, crawl space can be left to place outdoor units, or machine room can be set up on each floor. By using exhaust duct to exhaust the air, short circuit of return air can be avoided with long exhaust distance, which ensures good ventilation and heat exchange effects of outdoor units.

Temperature °C



Airflow Schematic

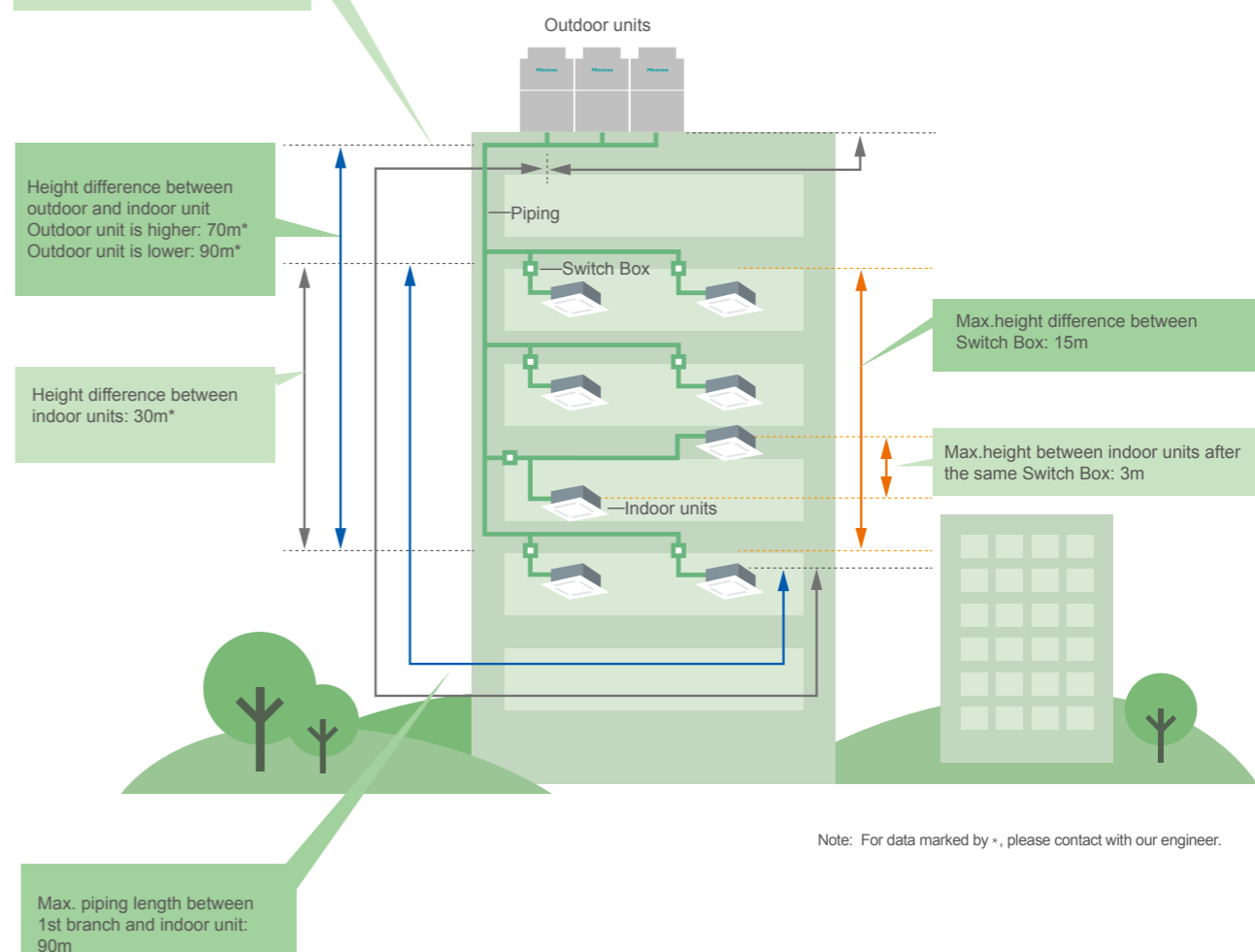


Exhaust duct installation

Layered installation effect picture

More Flexible Refrigerant Piping Work

Max. piping length: 190m*
Max. total piping length: 1000m



Note: For data marked by *, please contact with our engineer.

Outdoor Unit Specifications



Hi-FLEXI R Series		HP	8HP	10HP	12HP	14HP	16HP	18HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-76FESR	AVWT-96FESR	AVWT-114FESR	AVWT-136FESS	AVWT-154FESS	AVWT-170FESS
	AC3Φ380V/60Hz		AVWT-76F7SR	AVWT-96F7SR	AVWT-114F7SR	AVWT-136F7SS	AVWT-154F7SS	AVWT-170F7SS
	AC3Φ220V/60Hz		AVWT-76F9SR	AVWT-96F9SR	AVWT-114F9SR	AVWT-136F9SS	AVWT-154F9SS	AVWT-170F9SS
Combination								
Cooling Operation	Nominal Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0
		KBtu/h	76.5	95.5	114.3	136.5	153.5	170.6
	Power Consumption	kW	5.65	7.65	10.18	12.25	13.74	16.60
Heating Opeartion	Nominal 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 Consumption	kW	5.81	7.76	10.12	11.30	12.60	15.30
Heating Opeartion	Nominal 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 Consumption	kW	5.81	7.76	10.12	11.30	12.60	15.30
Air Flow Rate		m³/h	9,300	10,200	10,500	11,700	11,700	11,700
Outer Dimensions (H×W×D)		mm	1,720×950×750	1,720×950×750	1,720×950×750	1,720×1,210×750	1,720×1,210×750	1,720×1,210×750
Packing Dimension (H×W×D)		mm	1,828×1,018×824	1,828×1,018×824	1,828×1,018×824	1,882×1,278×824	1,882×1,278×824	1,882×1,278×824
Net Weight		Kg	225	227	246	298	312	318
Gross Weight		Kg	235	237	255	310	325	330
Compressor Quantity			1	1	1	2	2	2
Condenser Fan Quantity			1	1	1	1	1	1
Cabinet Color			Ivory White					
Heat Pump Operation System	Gas Line	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6
	Liquid Line	mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7	Φ15.88
Heat Recovery Operation System	Liquid Line	mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7	Φ15.88
	Low Pressure Gas Line	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6
Heat Recovery Operation System	High Pressure Gas Line	mm	Φ15.88	Φ19.05	Φ22.2	Φ22.2	Φ22.2	Φ22.2
Max. Connectable No. of Indoor Units			13.0	16.0	19.0	23.0	26.0	26.0
Refrierant Piping			Flare-nut Connection(With Flare Nuts)					
Height Difference	Between ODU and IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	58	58	60	62	62	63
Operation Range	Cooling	℃ DB	-5~48	-5~48	-5~48	-5~48	-5~48	-5~48
	Heating	℃ WB	-20~15.5	-20~15.5	-20~15.5	-20~15.5	-20~15.5	-20~15.5

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27℃ DB(80°F DB), 19.0℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB(68°F DB),
Outdoor Air Inlet Temperature: 7℃ DB(45°F DB), 6℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.



Hi-FLEXI R Series		HP	20HP	22HP	24HP	26HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-190FESZ	AVWT-212FESZ	AVWT-232FESZ	AVWT-250FESZ
	AC3Φ380V/60Hz		AVWT-190F7SZ	AVWT-212F7SZ	AVWT-232F7SZ	AVWT-250F7SZ
	AC3Φ220V/60Hz		AVWT-190F9SZ	AVWT-212F9SZ	AVWT-232F9SZ	AVWT-250F9SZ
Combination			AVWT-76FESR AVWT-114FESR	AVWT-76FESR AVWT-136FESS	AVWT-96FESR AVWT-136FESS	AVWT-114FESR AVWT-136FESS
Cooling Operation	Nominal Capacity	kW	56.0	61.5	69.0	73.0
		KBtu/h	190.8	213.0	232.0	250.8
	Power Consumption	kW	15.83	17.90	19.90	22.43
Heating Opeartion	Nominal Capacity	kW	63.0	69.0	77.5	82.5
		KBtu/h	213.3	239.0	261.0	281.5
	Power Consumption	kW	15.93	17.11	19.06	21.42
Heating Opeartion	Nominal Capacity	kW	63.0	69.0	77.5	82.5
		KBtu/h	213.3	239.0	261.0	281.5
	Power Consumption	kW	15.93	17.11	19.06	21.42
Air Flow Rate		m³/h	19,800	21,000	21,900	22,200
Outer Dimensions (H×W×D)		mm	1,720×(950+950)×750	1,720×(950+1,210)×750	1,720×(950+1,210)×750	1,720×(950+1,210)×750
Packing Dimension (H×W×D)		mm	---	---	---	---
Net Weight		Kg	225+246	225+298	227+298	246+298
Gross Weight		Kg	235+255	235+310	237+310	255+310
Compressor Quantity			2	3	3	3
Condenser Fan Quantity			2	2	2	2
Cabinet Color			Ivory White			
Heat Pump Operation System	Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ31.75
	Liquid Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05
Heat Recovery Operation System	Liquid Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05
	Low Pressure Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ31.75
Heat Recovery Operation System	High Pressure Gas Line	mm	Φ22.2	Φ25.4	Φ25.4	Φ25.4
Max. Connectable No. of Indoor Units			33.0	36.0	40.0	43.0
Refrierant Piping			Flare-nut Connection(With Flare Nuts)			
Height Difference	Between ODU and IDU	m	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)	50(70*)/40(90*)
	Between IDUs	m	15(30*)	15(30*)	15(30*)	15(30*)
Noise Level		dB(A)	62	63	63	64
Operation Range	Cooling	℃ DB	-5~48	-5~48	-5~48	-5~48
	Heating	℃ WB	-20~15.5	-20~15.5	-20~15.5	-20~15.5

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27℃ DB(80°F DB), 19.0℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB(68°F DB),
Outdoor Air Inlet Temperature: 7℃ DB(45°F DB), 6℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.

| Outdoor Unit Specifications



Hi-FLEXI R Series		HP	28HP	30HP	32HP	34HP	36HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-272FESZ	AVWT-290FESZ	AVWT-308FESZ	AVWT-324FESZ	AVWT-340FESZ
	AC3Φ380V/60Hz		AVWT-272F7SZ	AVWT-290F7SZ	AVWT-308F7SZ	AVWT-324F7SZ	AVWT-340F7SZ
	AC3Φ220V/60Hz		AVWT-272F9SZ	AVWT-290F9SZ	AVWT-308F9SZ	AVWT-324F9SZ	AVWT-340F9SZ
Combination			AVWT-136FESS AVWT-136FESS	AVWT-136FESS AVWT-154FESS	AVWT-154FESS AVWT-154FESS	AVWT-154FESS AVWT-170FESS	AVWT-170FESS AVWT-170FESS
Cooling Operation	Nominal Capacity	kW	80.0	85.0	90.0	95.0	100.0
		KBtu/h	273.0	290.0	307.0	324.1	341.2
	Power Consumption	kW	24.50	25.99	27.48	30.34	33.20
	EER		3.27	3.27	3.28	3.13	3.01
Heating Opeartion	Nominal Capacity	kW	90.0	95.0	100.0	106.0	112.0
		KBtu/h	307.1	324.1	341.2	361.7	382.1
	Power Consumption	kW	22.60	23.90	25.20	27.90	30.60
	COP		3.98	3.97	3.97	3.80	3.66
Air Flow Rate		m³/h	23,400	23,400	23,400	23,400	23,400
Outer Dimensions (H×W×D)		mm	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750	1,720×(1,210+1,210)×750
Packing Dimension (H×W×D)		mm	---	---	---	---	---
Net Weight		Kg	298+298	298+312	312+312	312+318	318+318
Gross Weight		Kg	310+310	310+325	325+325	325+330	330+330
Compressor Quantity			4	4	4	4	4
Condenser Fan Quantity			2	2	2	2	2
Cabinet Color			Ivory White				
Heat Pump Operation System	Gas Line	mm	Φ31.75	Φ31.75	Φ31.75	Φ31.75	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Heat Recovery Operation System	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
	Low Pressure Gas Line	mm	Φ31.75	Φ31.75	Φ31.75	Φ31.75	Φ31.75
	High Pressure Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Max. Connectable No. of Indoor Units			47.0	50.0	53.0	56.0	59.0
Refrierant Piping			Flare-nut Connection(With Flare Nuts)				
Height Difference	Between ODU and IDU	m	50(70°)/40(90°)	50(70°)/40(90°)	50(70°)/40(90°)	50(70°)/40(90°)	50(70°)/40(90°)
	Between IDUs	m	15(30°)	15(30°)	15(30°)	15(30°)	15(30°)
Noise Level		dB(A)	65	65	65	66	66
Operation Range	Cooling	℃ DB	-5~48	-5~48	-5~48	-5~48	-5~48
	Heating	℃ WB	-20~15.5	-20~15.5	-20~15.5	-20~15.5	-20~15.5

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27℃ DB(80°F DB); 19.0℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB(68°F DB);
Outdoor Air Inlet Temperature: 7℃ DB(45°F DB), 6℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.



Hi-FLEXI R Series		HP	38HP	40HP	42HP
Model Power Supply	AC3Φ380~415V/50Hz		AVWT-364FESZ	AVWT-382FESZ	AVWT-398FESZ
	AC3Φ380V/60Hz		AVWT-364F7SZ	AVWT-382F7SZ	AVWT-398F7SZ
	AC3Φ220V/60Hz		AVWT-364F9SZ	AVWT-382F9SZ	AVWT-398F9SZ
Combination			AVWT-114FESR AVWT-114FESR AVWT-136FESS	AVWT-114FESR AVWT-114FESR AVWT-154FESS	AVWT-114FESR AVWT-114FESR AVWT-170FESS
Cooling Operation	Nominal Capacity	kW	109.0	112.0	118.0
		KBtu/h	365.1	382.1	399.2
	Power Consumption	kW	32.61	34.10	36.96
	EER		3.34	3.28	3.19
Heating Opeartion	Nominal Capacity	kW	118.0	125.0	132.0
		KBtu/h	409.5	426.5	447.5
	Power Consumption	kW	31.54	32.84	35.54
	COP		3.74	3.81	3.71
Air Flow Rate		m³/h	32,700	32,700	32,700
Outer Dimensions (H×W×D)		mm	1,720×(950+950+1,210)×750	1,720×(950+950+1,210)×750	1,720×(950+950+1,210)×750
Packing Dimension (H×W×D)		mm	---	---	---
Net Weight		Kg	246+246+298	246+246+312	246+246+318
Gross Weight		Kg	255+255+310	255+255+325	255+255+330
Compressor Quantity			4	4	4
Condenser Fan Quantity			3	3	3
Cabinet Color			Ivory White		
Heat Pump Operation System	Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
Heat Recovery Operation System	Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05
	Low Pressure Gas Line	mm	Φ38.1	Φ38.1	Φ38.1
	High Pressure Gas Line	mm	Φ31.75	Φ31.75	Φ31.75
Max. Connectable No. of Indoor Units			64.0	64.0	64.0
Refrierant Piping			Flare-nut Connection(With Flare Nuts)		
Height Difference	Between ODU and IDU	m	50(70°)/40(90°)	50(70°)/40(90°)	50(70°)/40(90°)
	Between IDUs	m	15(30°)	15(30°)	15(30°)
Noise Level		dB(A)	66	66	66
Operation Range	Cooling	℃ DB	-5~48	-5~48	-5~48
	Heating	℃ WB	-20~15.5	-20~15.5	-20~15.5

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27℃ DB(80°F DB); 19.0℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB(68°F DB);
Outdoor Air Inlet Temperature: 7℃ DB(45°F DB), 6℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.

| Outdoor Unit Specifications



Hi-FLEXI R Series			HP	44HP	46HP	48HP
Model Power Supply	AC3Φ380~415V/50Hz			AVWT-420FESZ	AVWT-438FESZ	AVWT-454FESZ
	AC3Φ380V/60Hz			AVWT-420F7SZ	AVWT-438F7SZ	AVWT-454F7SZ
	AC3Φ220V/60Hz			AVWT-420F9SZ	AVWT-438F9SZ	AVWT-454F9SZ
Combination				AVWT-114FESR AVWT-136FESS AVWT-170FESS	AVWT-114FESR AVWT-154FESS AVWT-170FESS	AVWT-114FESR AVWT-170FESS AVWT-170FESS
Cooling Operation	Nominal Capacity	kW		125.0	132.0	136.0
		KBtu/h		421.4	438.4	455.5
	Power Consumption	kW		39.03	40.52	43.38
	EER			3.20	3.26	3.14
Heating Opeartion	Nominal Capacity	kW		140.0	145.0	150.0
		KBtu/h		472.6	494.7	511.8
	Power Consumption	kW		36.72	38.02	40.72
	COP			3.81	3.81	3.68
Air Flow Rate			m³/h	33,900	33,900	33,900
Outer Dimensions (H×W×D)			mm	1,720×(950+1,210+1,210)×750	1,720×(950+1,210+1,210)×750	1,720×(950+1,210+1,210)×750
Packing Dimension (H×W×D)			mm	---	---	---
Net Weight			Kg	246+298+318	246+312+318	246+318+318
Gross Weight			Kg	255+310+330	255+325+330	255+330+330
Compressor Quantity				5	5	5
Condenser Fan Quantity				3	3	3
Cabinet Color				Ivory White		
Heat Pump Operation System	Gas Line	mm		Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm		Φ19.05	Φ19.05	Φ19.05
Heat Recovery Operation System	Liquid Line	mm		Φ19.05	Φ19.05	Φ19.05
	Low Pressure Gas Line	mm		Φ38.1	Φ38.1	Φ38.1
	High Pressure Gas Line	mm		Φ31.75	Φ31.75	Φ31.75
Max. Connectable No. of Indoor Units				64.0	64.0	64.0
Refrierant Piping				Flare-nut Connection(With Flare Nuts)		
Height Difference	Between ODU and IDU	m		50(70°)/40(90°)	50(70°)/40(90°)	50(70°)/40(90°)
	Between IDUs	m		15(30°)	15(30°)	15(30°)
Noise Level			dB(A)	67	67	67
Operation Range	Cooling	℃ DB		-5~48	-5~48	-5~48
	Heating	℃ WB		-20~15.5	-20~15.5	-20~15.5

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 ℃ DB(80°F DB); 19.0 ℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 ℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20 ℃ DB(68°F DB);
Outdoor Air Inlet Temperature: 7 ℃ DB(45°F DB), 6 ℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.



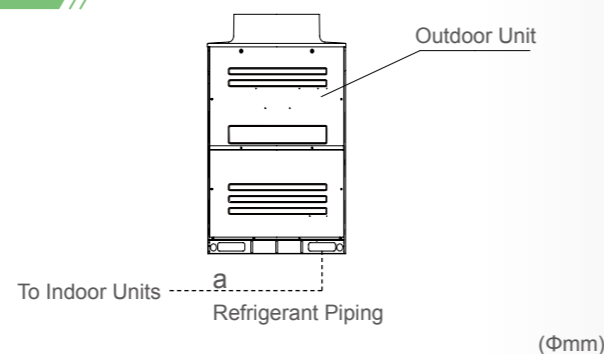
Hi-FLEXI R Series			HP	50HP	52HP	54HP
Model Power Supply	AC3Φ380~415V/50Hz			AVWT-476FESZ	AVWT-494FESZ	AVWT-510FESZ
	AC3Φ380V/60Hz			AVWT-476F7SZ	AVWT-494F7SZ	AVWT-510F7SZ
	AC3Φ220V/60Hz			AVWT-476F9SZ	AVWT-494F9SZ	AVWT-510F9SZ
Combination				AVWT-136FESS AVWT-170FESS AVWT-170FESS	AVWT-154FESS AVWT-170FESS AVWT-170FESS	AVWT-170FESS AVWT-170FESS AVWT-170FESS
Cooling Operation	Nominal Capacity	kW		140.0	145.0	150.0
		KBtu/h		477.7	494.7	511.8
	Power Consumption	kW		45.45	46.94	49.80
	EER			3.08	3.09	3.01
Heating Opeartion	Nominal Capacity	kW		155.0	160.0	165.0
		KBtu/h		528.9	545.9	563.0
	Power Consumption	kW		41.90	43.20	45.90
	COP			3.70	3.70	3.59
Air Flow Rate			m³/h	35,100	35,100	35,100
Outer Dimensions (H×W×D)			mm	(1,720×1,210×750)×3	(1,720×1,210×750)×3	(1,720×1,210×750)×3
Packing Dimension (H×W×D)			mm	---	---	---
Net Weight			Kg	298+318+318	312+318+318	318+318+318
Gross Weight			Kg	310+330+330	325+330+330	330+330+330
Compressor Quantity				6	6	6
Condenser Fan Quantity				3	3	3
Cabinet Color				Ivory White		
Heat Pump Operation System	Gas Line	mm		Φ38.1	Φ38.1	Φ38.1
	Liquid Line	mm		Φ19.05	Φ19.05	Φ19.05
Heat Recovery Operation System	Liquid Line	mm		Φ19.05	Φ19.05	Φ19.05
	Low Pressure Gas Line	mm		Φ38.1	Φ38.1	Φ38.1
	High Pressure Gas Line	mm		Φ31.75	Φ31.75	Φ31.75
Max. Connectable No. of Indoor Units				64.0	64.0	64.0
Refrierant Piping				Flare-nut Connection(With Flare Nuts)		
Height Difference	Between ODU and IDU	m		50(70°)/40(90°)	50(70°)/40(90°)	50(70°)/40(90°)
	Between IDUs	m		15(30°)	15(30°)	15(30°)
Noise Level			dB(A)	67	67	68
Operation Range	Cooling	℃ DB		-5~48	-5~48	-5~48
	Heating	℃ WB		-20~15.5	-20~15.5	-20~15.5

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 ℃ DB(80°F DB); 19.0 ℃ WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 ℃ DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20 ℃ DB(68°F DB);
Outdoor Air Inlet Temperature: 7 ℃ DB(45°F DB), 6 ℃ WB(43°F WB)
2. The sound pressure is based on the following conditions.1 Meter from the unit service cover surface, and 1.5 Meter from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. Except for the specified combination in the table, there is no other combination of the base unit.
4. The width of outer dimension, it is the value when each distance between the base outdoor units is specified to 20mm.
5. For Max. pipe length more than 165m, height difference between ODU&IDU more than 50(40)m or height difference between IDUs more than 15m, please contact with our professional engineer.

Pipe Diameter for Outdoor Unit

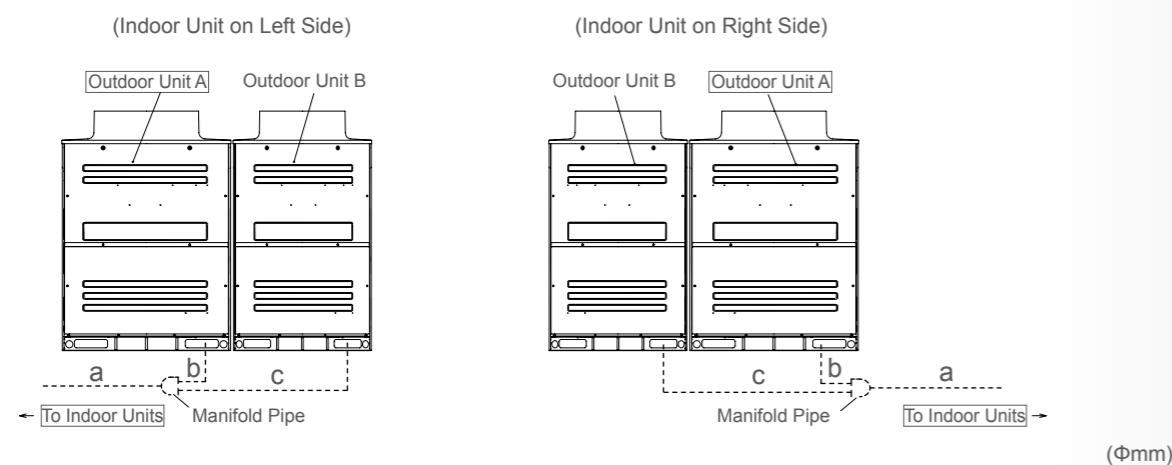
Piping Size for AVWT-86U6(7)SR to AVWT-154U6(7)SS (Base Unit)



Model			AVWT-76FESR	AVWT-96FESR	AVWT-114FESR	AVWT-136FESS	AVWT-154FESS	AVWT-170FESS
Piping Size	a	Gas	19.05	22.2	25.4	25.4	28.6	28.6
		Liquid	9.53	9.53	12.7	12.7	12.7	15.88

Piping Size for AVWT-190FESZ to AVWT-340FESZ (2 Units Combination)

< Figure for AVWT-232FESZ >

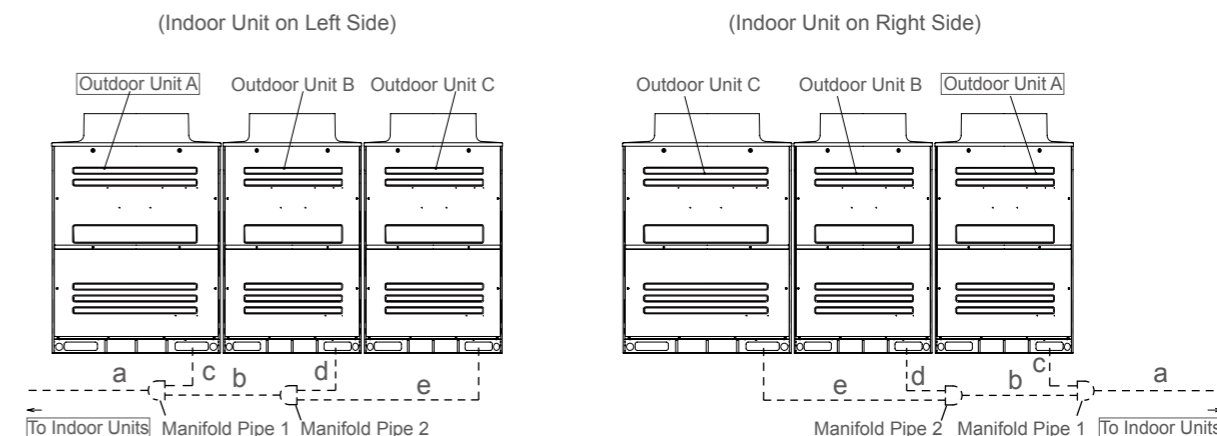


Model		AVWT-190*	AVWT-212*	AVWT-232*	AVWT-250*	AVWT-272*	AVWT-290*	AVWT-308*	AVWT-324*	AVWT-340*
Combination Unit	Outdoor Unit A	AVWT-114*	AVWT-136*	AVWT-136*	AVWT-136*	AVWT-136*	AVWT-154*	AVWT-154*	AVWT-170*	AVWT-170*
	Outdoor Unit B	AVWT-76*	AVWT-76*	AVWT-96*	AVWT-114*	AVWT-136*	AVWT-136*	AVWT-154*	AVWT-154*	AVWT-170*
Manifold Pipe		HFQ-M22F				HFQ-M32F				
Piping Size	a	Gas	28.6	28.6	28.6	31.75	31.75	31.75	31.75	38.1
		Liquid	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05
	b	Gas	25.4	25.4	25.4	25.4	28.6	28.6	28.6	28.6
		Liquid	12.7	12.7	12.7	12.7	12.7	12.7	15.88	15.88
	c	Gas	19.05	19.05	22.2	25.4	25.4	28.6	28.6	28.6
		Liquid	9.53	9.53	9.53	12.7	12.7	12.7	12.7	15.88

* Perform the installation of the outdoor unit and piping connection according to the figure.
Refer to the table for the outdoor unit model, the manifold pipe model and the piping diameter

Piping Size for AVWT-328U6(7)SZ to AVWT-460U6(7)SZ (Triple Units Combination)

< Figure for AVWT-365U6(7)SZ >



Model		AVWT-328*	AVWT-345*	AVWT-365*	AVWT-386*	AVWT-402*	AVWT-426*	AVWT-444*	AVWT-460*
Combination Unit	Outdoor Unit A	AVWT-154*	AVWT-154*	AVWT-136*	AVWT-154*	AVWT-154*	AVWT-154*	AVWT-154*	AVWT-154*
	Outdoor Unit B	AVWT-96*	AVWT-96*	AVWT-114*	AVWT-114*	AVWT-136*	AVWT-154*	AVWT-154*	AVWT-154*
	Outdoor Unit C	AVWT-86*	AVWT-96*	AVWT-114*	AVWT-114*	AVWT-114*	AVWT-114*	AVWT-136*	AVWT-154*
Manifold Pipe		HFQ-M22F+HFQ-M32F				HFQ-M32F+HFQ-M32F			
Piping Size	a	Gas	31.75	38.1	38.1	38.1	38.1	38.1	38.1
		Liquid	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	b	Gas	28.6	28.6	28.6	28.6	31.75	31.75	31.75
		Liquid	15.88	15.88	15.88	15.88	19.05	19.05	19.05
	c	Gas	28.6	28.6	25.4	28.6	28.6	28.6	28.6
		Liquid	12.7	12.7	12.7	12.7	12.7	12.7	12.7
	d	Gas	22.2	22.2	25.4	25.4	25.4	28.6	28.6
		Liquid	9.53	9.53	12.7	12.7	12.7	12.7	12.7
	e	Gas	19.05	22.2	25.4	25.4	25.4	25.4	28.6
		Liquid	9.53	9.53	12.7	12.7	12.7	12.7	12.7

* Perform the installation of the outdoor unit and piping connection according to the figure.
Refer to the table for the outdoor unit model, the manifold pipe model and the piping diameter.

Hi-FLEXi C Series

- DC inverter-driven compressor
- Low noise technologies
- Compact and lightweight design
- Long refrigerant pipe and drop



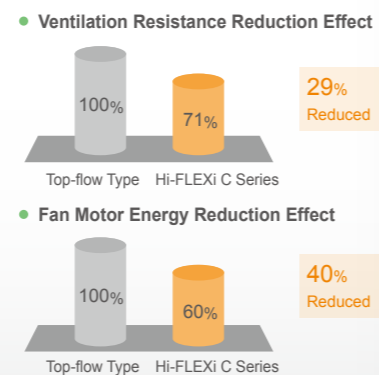
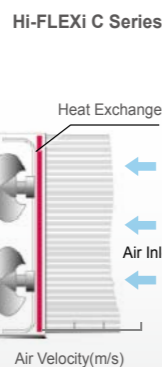
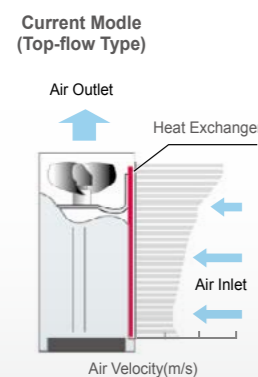
Top-class Compact and Light Weight Design

Facilitation and flexibility at installation are further advanced by adopting outdoor units light weight and compact design compared to the current top-flow model.



Technology to Improve Heat Exchanger Performance

In the Hi-FLEXi C series model, wind speed distribution is rendered uniform by making the direction of the wind flow same to the fan and the heat exchanger. As a result, the performance of the heat exchanger is optimized and energy is saved.



Low Noise Technologies

DC Fan Motor

The smooth rotating fan motor with low vibration reduces the noise level.

Super High-stream Fan

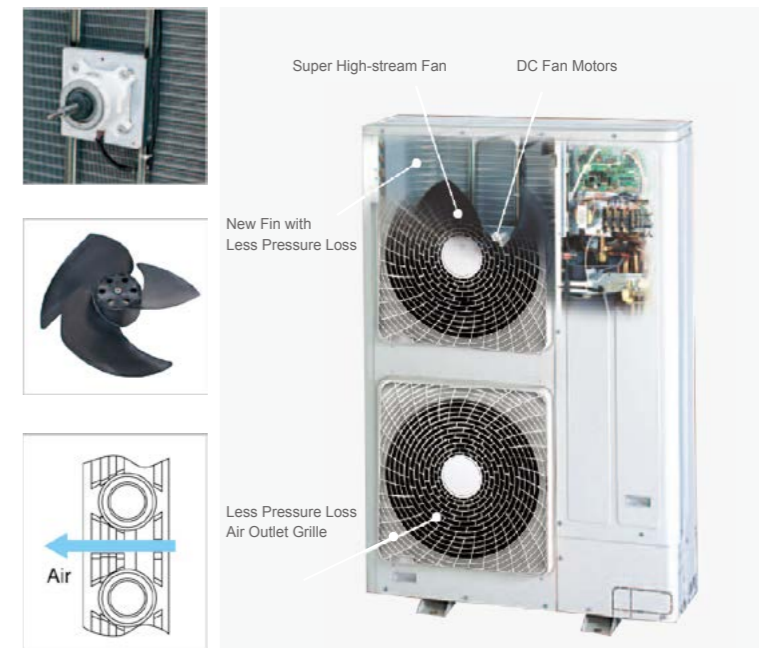
Super high-stream fan of $\Phi 544\text{mm}$ cuts down the noise level.

Low Pressure Loss Air Outlet Grille

The rib structure synchronized with rotation flow from the fan reduces the air resistance at the air outlet grille.

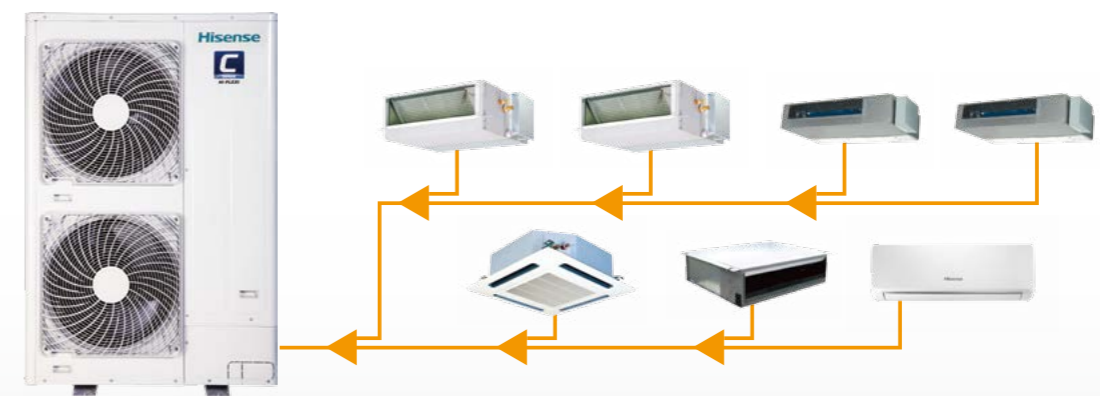
New Fin with Less Pressure Loss

The draft resistance is reduced by 20%. Both high-efficiency and low noise operation are simultaneously satisfied.



Various Model Types Easily Match Different Layout

Wide capacity range of outdoor units enables free model combination of indoor units according to the actual situation of building. There are 12 types of indoor units for selection. Designer can choose the appropriate type and capacity of indoor units according to the interior decoration and furnitures.



Greater Convenience During Delivery and Installation

- With light and compact body, the Hi-FLEXi C Series can be easily carried in the elevator even in a small urban site.

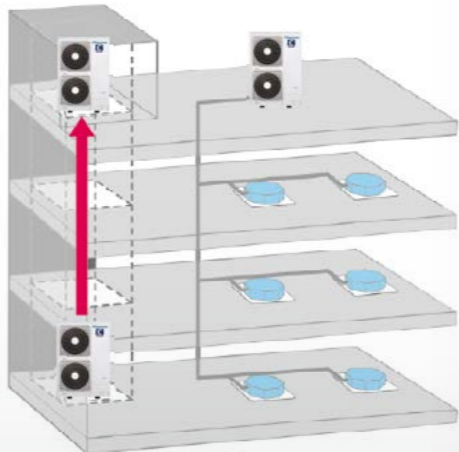
- No cranes required for delivery



- The unit can be carried at one time. Elevators can be used for delivery.

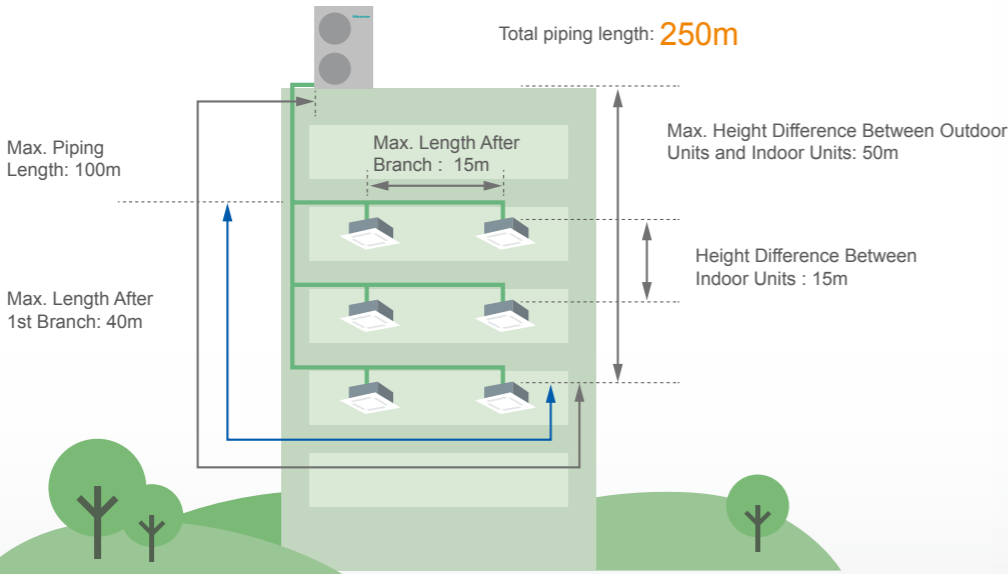


Light and compact body facilitates renewal



Long Piping Design

- Total piping length: **250m**
- Max. piping length: **100m**
- Max. length after first branch : **40m**
- Max. length after branch : **15m**
- Height difference between indoor units : **15m**
- Max. height difference between outdoor and indoor units: **50m** (when outdoor units are higher than indoor units)
- Max. height difference between outdoor and indoor units: **40m** (when outdoor units are lower than indoor units)



Outdoor Unit Specifications



Hi-FLEXi C		HP	8HP	10HP	12HP
Model Power Supply	AC3Φ380~415V/50Hz		AVW-76UESR	AVW-96UESR	AVW-114UESR
	AC3Φ380V/60Hz		AVW-76U7SR	AVW-96U7SR	AVW-114U7SR
	AC3Φ220V/60Hz		AVW-76U9SR	AVW-96U9SR	AVW-114U9SR
Cooling Operation	Nominal Capacity	kW	22.4	28.0	33.5
		KBtu/h	76.5	95.6	114.3
	Consumption Power	kW	6.3	8.3	10.7
	EER		3.6	3.4	3.1
Heating	Nominal Capacity	kW	25.0	31.5	37.5
		KBtu/h	85.3	107.5	128.0
	Consumption Power	kW	5.9	7.8	9.9
	COP		4.2	4.0	3.8
Air Flow Rate		m³/h	7,260	9,000	9,780
Outer Dimension (H×W×D)		mm	1,650x1,100x390		
Packing Dimension (H×W×D)		mm	1,748x1,151x500		
Net Weight		kg	168	168	171
Gross Weight		kg	179	179	182
Refrigerant piping	Gas Line	mm	Φ19.05	Φ22.2	Φ25.4
	Liquid Line	mm	Φ9.53	Φ12.7	Φ12.7
Max. number of connectable IDU			10	10	10
Max. Piping Length		m	100	100	100
Height Difference	Between ODU & IDU	m	50(40)	50(40)	50(40)
	Between IDUs	m	15	15	15
Noise Level		dB(A)	53/55	56/58	56/61
Operation Range	Cooling	℃ DB	-5 ~ 48*		
	Heating	℃ WB	-20 ~ 15		

Notes:

1.The nominal cooling heating capacities show the capacities when the outdoor unit is operated with the100% rating of indoor units,and are based on the standard JIS B8616.

Cooling Operation Conditions

Indoor Air Inlet Temperature:27 °C DB(80° F DB)
*1):19.5 °C WB(67° F WB)
*2):19.0 °C WB(66.2° F WB)
Outdoor Air Inlet Temperature:35 °C DB(95° F DB)
Piping Length: 7.5Meters Piping Lift: 0Meter

Heating Operation Conditions

Indoor Air Inlet Temperature:20 °C DB(68° F DB)
Outdoor Air Inlet Temperature:7 °C DB(95° F DB)
6 °C WB(95° F WB)

- The sound pressure level is based on following conditions:
1.5Meters from floor Level,and 1 Meter from the unitservice cover surface.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- For height differences between ODU&IDU more than 50(40) or height differences between IDUs more than 15, please contact with our engineer.
- When the cooling operation temperature is over 43 °C , please contact with our professional engineer.

Hi-Smart L Series



Hisense Hi-Smart L Series is designed and developed for high-end residential and commercial space.

- DC inverter-driven compressor
- Low noise technologies
- Compact and lightweight design
- Long refrigerant pipe and drop



| Slim and Refined Body Design



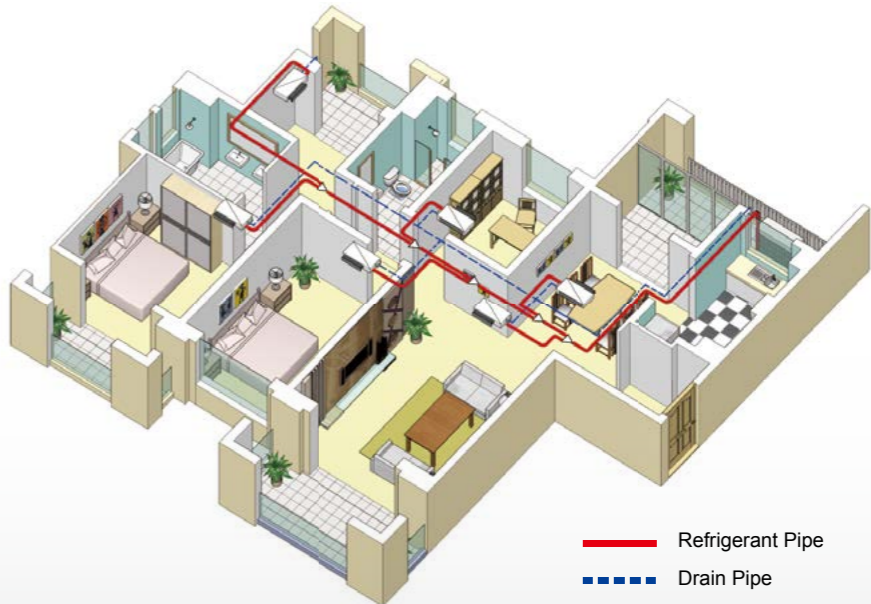
The compact outdoor unit can be flexibly placed according to outdoor condition. Low-height ducted type can be easily installed inside the low-height residential ceiling with a height of 192mm, which makes low height indoor units and elegant home decoration style set off mutually.



| Free Combination



One outdoor unit of Hi-Smart L series can connect maximum 12 indoor units in different types. The free combination not only meets the air condition needs of large space, but also helps to match the indoor decoration. Flexible choice and better system configuration start a tour of Luxury life.



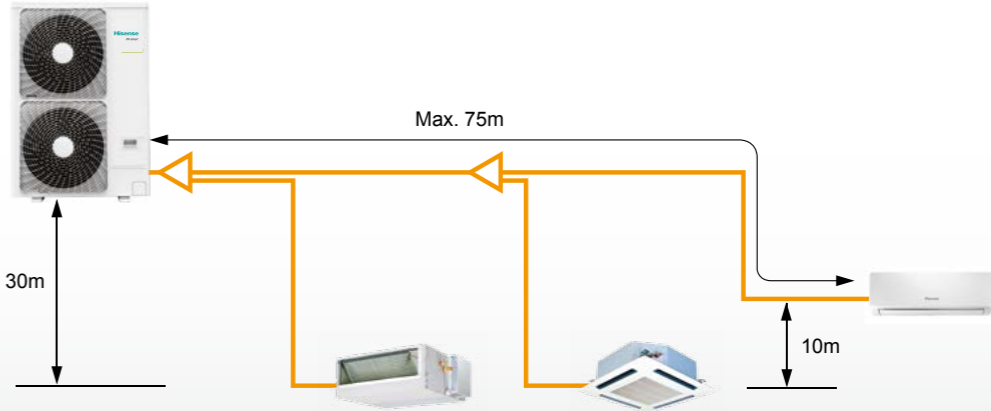
— Refrigerant Pipe
- - - Drain Pipe

| Long Piping Design



Long refrigerant piping design makes project design and installation works more convenient.

- Total piping length can be 120m.
- Max. piping length is 75m.
- Max. height difference between outdoor and indoor units is 30m.
- Max. height difference between the highest and the lowest indoor units is 10m.



Outdoor Unit Specifications



Hi-Smart L series		HP	4HP	5HP	6HP
Model Power Supply	AC1Φ220~240V/50Hz		AVW-38UCSC	AVW-48UCSC	AVW-54UCSC
	AC1Φ220V/60Hz		AVW-38U2SC	AVW-48U2SC	AVW-54U2SC
	AC3Φ380~415V/50Hz		---	AVW-48UESC	AVW-54UESC
	AC3Φ380V/60Hz		---	AVW-48U7SC	AVW-54U7SC
Cooling Operation	Nominal Capacity	kW	11.2	14.0	15.5
		kBtu/h	38.2	47.8	52.9
	Power Consumption	kW	2.99	3.92	4.44
	EER		3.75	3.57	3.49
Heating Opeartion	Nominal Capacity	kW	12.5	16.0	18.0
		kBtu/h	42.7	54.6	61.4
	Power Consumption	kW	2.98	4.03	4.74
	COP		4.19	3.97	3.80
Air Flow Rate		m³/h	5,400	5,400	6,000
Outer Dimension(H×W×D)		mm	1,380×950×370		
Packing Dimension(H×W×D)		mm	1,500×1,040×460		
Net Weight		kg	93	95	97
Gross Weight		kg	106	108	110
Refrigerant piping	Liquid Line	mm	Φ9.53	Φ9.53	Φ9.53
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88
Max. number of connectable IDU			8	9	9
Noise Level	Cooling/Heating	dB(A)	52/54	52/55	54/56
Operation Range	Cooling Operation	℃ DB	-5~50*		
	Heating Operation	℃ WB	-20~15.5		
Branch Pipe			HFQ-052F		

Note:

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: 7.5Meters Piping Lift: 0Meter

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)

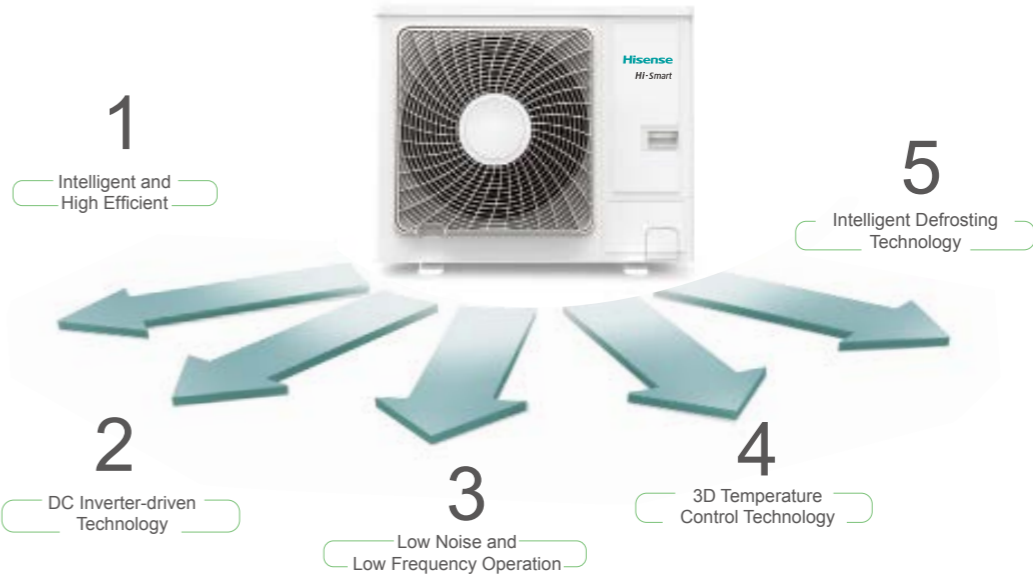
2. The sound pressure level is based on following conditions
1.5m beneath the unit.

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

3. When the cooling operation temperature is over 48℃ , please contact with our professional engineer.

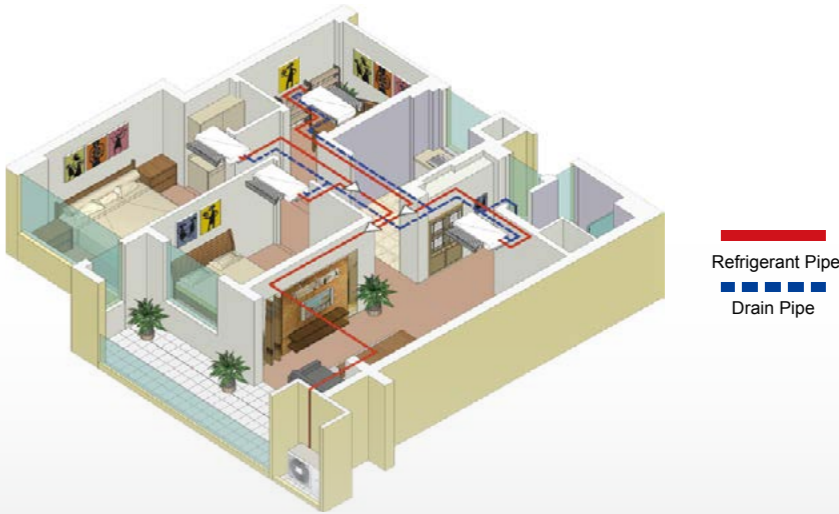
Hi-FLEXi E Series

Leading Low Carbon New Life



Intelligent Multi-split Design

Hi-Smart E outdoor unit adopts the leading single-piping connection technology and connects multiple indoor units freely. The indoor unit adopts 2000-step micro-computer EEV (electronic expansion valve) to achieve automatic refrigerant flow control according to indoor load, which results in more precise and comfortable temperature control.



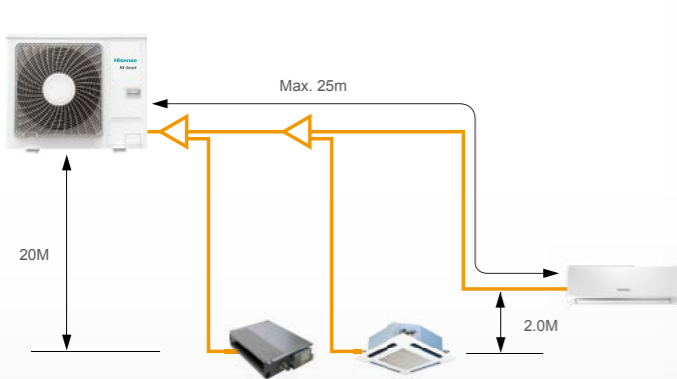
| Slim and Refined Body Design

The compact outdoor unit can be flexibly placed according to outdoor condition. Low-height in-the-ceiling type can be easily installed inside the low-height residential ceiling with a height of 192mm, which makes low height indoor units and elegant home decoration style set off mutually.



| Flexible Long Piping Design

- Max. total piping length is 40m.
- Max. height difference between outdoor and indoor units is 20m.
- Height difference between indoor units is 2m.



| Outdoor Unit Specifications



Hi-Smart E series		HP	3HP	4HP	5HP
Model Power Supply	AC1Φ220~240V/50Hz		AVW-28UCSB	AVW-34UCSB	AVW-43UCSB
	AC1Φ220V/60Hz		AVW-28U2SB	AVW-34U2SB	AVW-43U2SB
	AC3Φ380~415V/50Hz		---	---	AVW-43UESB
	AC3Φ380V/60Hz		---	---	AVW-43U7SB
Cooling Operation	Nominal Capacity	kW	8.0	10.0	12.5
		kBtu/h	27.3	34.1	42.7
	Power Consumption	kW	2.66	2.86	3.81
	EER		3.01	3.50	3.28
Heating	Nominal Capacity	kW	9.5	11.2	14.0
		kBtu/h	32.4	38.2	47.8
	Power Consumption	kW	2.42	2.75	3.68
	COP		3.93	4.07	3.80
Air Flow Rate		m³/h	2,970	4,140	4,680
Outer Dimension (H×W×D)		mm	800×950×370		
Packing Dimension (H×W×D)		mm	1020×940×370		
Net Weight		kg	65	73	78
Gross Weight		kg	75	83	88
Refrigerant piping	Liquid Line	mm	Φ9.53	Φ9.53	Φ9.53
	Gas Line	mm	Φ15.88	Φ15.88	Φ15.88
Max. number of connectable IDU	AC1Φ/AC3Φ		4	5	5
Noise Level	Cooling/Heating	dB(A)	50/52	53/54	54/57
Operation Range	Cooling Operation	℃ DB	10~43		
	Heating Operation	℃ WB	-15~15		
Branch Pipe			HFQ-052F		

Notes:

1.The nominal cooling and heating capacities show the capacities when the outdoor with the 100% rating of indoor unit.
Cooling Operation Conditions
Indoor Air Inlet Temperature:27℃ DB/19℃ WB
Outdoor Air Inlet Temperature:35℃ DB
Piping Length:7.5Meters Piping Lift:0 Meter

2.The sound pressure level is based on following conditions:
1.5 Meters from floor Level,and 1Meter from the unit service cover surface.
The above data was measured in an anechoic chamber so that reflected sounde shoudle be taken into consideration in the field.

Hi-FLEXi W Series

Water Source Application Advantages

Hisense water-source inverter-driven multi-split air conditioning incorporates the merits of air-cooled inverter-driven multi-split system and water-source heat pump system.

- Inverter-driven control technology
- Water-source technology
- Simultaneous cooling and heating
- Stable performance



Wide Application Area



Adoption of Soil Source



Adoption of Underground Water



Building Water-cycling System



Urban Sewage, Recycled Water,
Trade Effluent



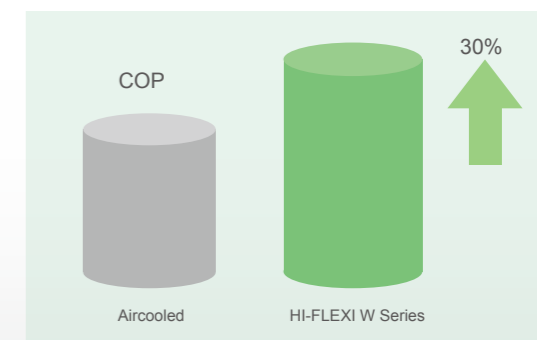
Adoption of Seawater Source



Adoption of Surface Water

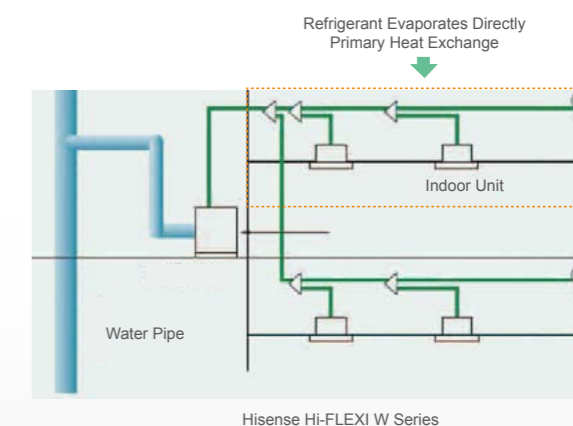
High Efficiency, Superb Model

Hisense Flexi W series central air conditioning integrates inverter-driven technology with water-source heat exchange technology. Through all the aspects of optimization design, a high COP value can be maintained in a larger operating range of cooling and heating.



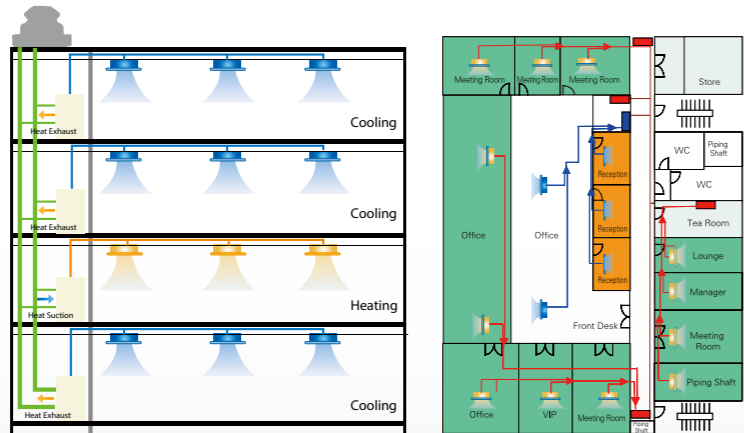
Primary Heat Exchange, Less Energy Loss

Middle-and-low-temperature water(10~45℃) is flowing in waterside pipeline, which results in less loss in intermediate links. Furthermore, a direct evaporation technology of refrigerant is applied in indoor units, which avoids heat exchange efficiency decrease caused by secondary heat exchange and greatly enhances COP value in air conditioning system.



Simultaneous Cooling and Heating, More Energy-saving in Heat Recovery System

The requirement of simultaneous cooling and heating operation has been increasing due to the large modern buildings with complex structure, function and more demand for comfort, especially at the transition season or in winter. Conventional central air conditioning system consumes more energy when cooling and heating coexist. Hi-FLEXi W series divides space into interior and exterior sections, easily satisfies the requirement of simultaneous cooling and heating in the same building, realizes heat recovery and maximum energy-saving.



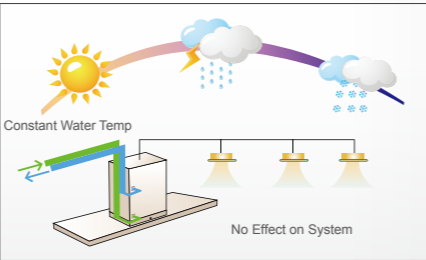
Heat Recovery Among Different Floors

Heat Recovery on the Same Floor

*Heat recovery is achieved by taking water as heat carrier among multiple units connected to the same water circulation system.

Stable Performance

By the use of water source , the performance of Hi-FLEXi W series will not be affected by high temperature. Even if in hot summer, its cooling capacity will not attenuate. Likewise, in heating operation,practically, the heat source temperature is higher and relatively stable, so that the frosting and defrosting will not occur, which contributes to stable performance.



Flexible Placement Greatly Improves the Utilization Rate of Space

Generally, conventional centralized water source heat pump units are of large size. In addition, they need special machineroom to be placed centrally. By contrast, Hi-FLEXi W series has the following main features in the installation:

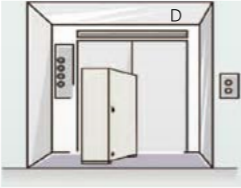
Compact Structure, Easy Transportation.



Machine Room for Conventional Central Water-source Unit



3-6HP:H800×W800×D370mm

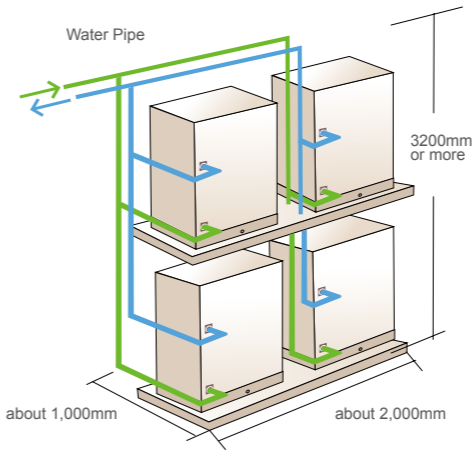


Elevator Transport



8-10HP:H1000×W780×D550mm

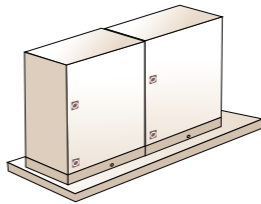
Modular Structure, Flexible Installation



The same module size helps to realize modular combination, and multiple units can be stacked

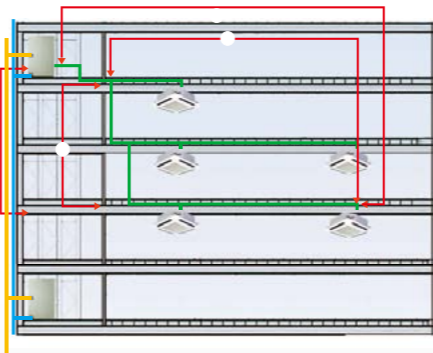
A wide selection of branch pipe can be chosen according to total capacity of indoor units connected , which greatly facilitates refrigerant pipe work on site and simplifies the procedure of construction.

AVWW-154	16HP	AVWW-76+AVWW-76
AVWW-170	18HP	AVWW-76+AVWW-96
AVWW-190	20HP	AVWW-96+AVWW-96



Long Refrigerant Pipe Design, Suitable for High Rise

Thanks to the integration of water cycling system and refrigerant cycling system, there is no limitation for the length of water pipe-line, which easily meets the AC need of large-scale and high-rise building. Furthermore, Hi-FLEXi W series allows a maximum refrigerant pipe length of 75m between chiller units and indoor units, which contributes to more flexible design. In conventional centralized water source heat pump system, the chiller units provide heat (cold) source directly for indoor units, more power consumption of water pump and more energy loss of refrigerating medium will arise from long pipe-line in system.



Model	3HP	4/5/6HP	8/10/16/18/20HP
Max.Equivalent Piping Length	30	75	120
Total Piping Length	45	120	300
Max.Distance Between 1st Branch and Indoor Unit	15	30	40
Max.Height Difference Between Indoor Units	5	15	15
Max.Height Difference Between I. U. and O. U. (O. U. is lower than I. U.)	15(15)	30(30)	50(40)

*In case of high-rise building, the water pressure limitation that the plate heat exchanger can bear must be taken into consideration.

| Outdoor Unit Specifications



3/4/5/6HP

Hi-FLEXi W Series		HP	3HP	4HP	5HP	6HP
Model Power Supply	AC1Φ 220~240V/50Hz		AVWW-28UCSA	AVWW-38UCSA	AVWW-48UCSA	AVWW-54UCSA
	AC1Φ 220V/60Hz		AVWW-28U2SA	AVWW-38U2SA	AVWW-48U2SA	AVWW-54U2SA
Combination						
Cooling Operation	Nominal Capacity*1	kW	8.00	11.20	14.00	15.50
		KBtu/h	27.3	38.2	47.8	52.9
	Rated Input	kW	1.90	2.60	3.41	3.88
	EER		4.21	4.31	4.11	3.99
Heating Opeartion	Nominal Capacity*1	kW	9.00	12.50	16.00	18.00
		KBtu/h	30.7	42.7	54.6	61.4
	Rated Input	kW	1.80	2.40	3.14	3.60
	COP		5.00	5.21	5.10	5.00
Outer Dimensions	Height	mm	800	800	800	800
	Width	mm	800	800	800	800
	Depth	mm	370	370	370	370
	Aera	m²	0.3	0.3	0.3	0.3
Packing Dimensions(H×W×D)		mm	980×450×930	980×450×930	980×450×930	980×450×930
Net Weight		Kg	78	100	100	100
Gross Weight		Kg	85	107	107	107
Water-Side Heat Exchanger	Water Temperature*3	°C	10 ~ 45	10 ~ 45	10 ~ 45	10 ~ 45
	Water Flow Rate	l/min	30	38	48	53
	Water Pressure Drop	kPa	30	30	35	40
Sound Pressure Level *2	Cooling/Heating	dB(A)	49	51	51	51
Piping Connection	Refrigerant Liquid Pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Refrigerant Gas Pipe	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	Water Pipe		DN25	DN25	DN25	DN25
	Thread of Connector		G1B	G1B	G1B	G1B
	Drain Pipe	mm	Φ18	Φ18	Φ18	Φ18
Water-Side Bearing Pressure Ability		Kgf/cm²	20	20	20	20
Max. Connectable Indoor Units			4	5	6	7

NOTES:

- *1. Operation Condition:
Cooling: Indoor Temperature 27°C DB/19°C WB, Outdoor Temperature 27°C DB, Water Inlet/Outlet 30/35°C .
Heating: Indoor Temperature 20°C DB/15°C WB, Outdoor Temperature 20°C DB, Water Inlet 20°C .
- *2. 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 operating out of the allowable water temperature range, it won't start normally and will alarm.



8/10HP

Hi-FLEXi W Series		HP	8HP	10HP
Model Power Supply	AC3Φ 380~415V/50Hz		AVWW-76UESB	AVWW-96UESB
	AC3Φ 380V/60Hz		AVWW-76U7SB	AVWW-96U7SB
	AC3Φ 208~230V/60Hz		AVWW-76U8SB	AVWW-96U8SB
Combination				
Cooling Operation	Nominal Capacity*1	kW	22.40	28.00
		KBtu/h	76.5	95.6
	Rated Input	kW	4.42	6.26
	EER		5.07	4.47
Heating Opeartion	Nominal Capacity*1	kW	25.00	31.50
		KBtu/h	85.3	107.5
	Rated Input	kW	4.2	5.81
	COP		6.00	5.42
Outer Dimensions	Height	mm	1,000	1,000
	Width	mm	780	780
	Depth	mm	550	550
	Aera	m²	0.4	0.4
Packing Dimensions(H×W×D)		mm	850X600X1,120	850X600X1,120
Net Weight		Kg	160	160
Gross Weight		Kg	165	165
Water-Side Heat Exchanger	Water Temperature*3	°C	10 ~ 45	10 ~ 45
	Water Flow Rate	l/min	76.8	96
	Water Pressure Drop	kPa	18	27.7
Sound Pressure Level *2	Cooling/Heating	dB(A)	50	51
Piping Connection	Refrigerant Liquid Pipe	mm	Φ12.7	Φ12.7
	Refrigerant Gas Pipe	mm	Φ19.05	Φ22.2
	Water Pipe		DN32	DN32
	Thread of Connector		G1 1/4B	G1 1/4B
	Drain Pipe	mm	Φ18	Φ18
Water-Side Bearing Pressure Ability		Kgf/cm²	20	20
Max. Connectable Indoor Units			13	16

NOTES:

- *1. Operation Condition:
Cooling: Indoor Temperature 27°C DB/19°C WB, Outdoor Temperature 27°C DB, Water Inlet/Outlet 30/35°C .
Heating: Indoor Temperature 20°C DB/15°C WB, Outdoor Temperature 20°C DB, Water Inlet 20°C .
- *2. 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 operating out of the allowable water temperature range, it won't start normally and will alarm.

Outdoor Unit Specifications



16/18/20HP

Hi-FLEXi W Series		HP	16HP	18HP	20HP
Model Power Supply	AC3Φ 380~415V/50Hz		AVWW-154UESB	AVWW-170UESB	AVWW-190UESB
	AC3Φ 380V/60Hz		AVWW-154U7SB	AVWW-170U7SB	AVWW-190U7SB
	AC3Φ 208~230V/60Hz		AVWW-154U8SB	AVWW-170U8SB	AVWW-190U8SB
Combination			AVWW-76U* AVWW-76U*	AVWW-76U* AVWW-96U*	AVWW-96U* AVWW-96U*
Cooling Operation	Nominal Capacity*1	KW	45.00	50.00	56.00
		KBtu/h	153.6	170.6	191.1
	Rated Input	KW	8.84	10.68	12.52
	EER		5.09	4.68	4.47
Heating Opeartion	Nominal Capacity*1	KW	50.00	56.00	63.00
		KBtu/h	170.6	191.1	215.0
	Rated Input	KW	8.4	10.01	11.62
	COP		5.95	5.95	5.42
Outer Dimensions	Height	mm	1,000	1,000	1,000
	Width	mm	780+780	780+780	780+780
	Depth	mm	550	550	550
	Aera	m²	0.86	0.86	0.86
Packing Dimensions(H×W×D)		mm	--	--	--
Net Weight		Kg	160+160	160+160	160+160
Gross Weight		Kg	165+165	165+165	165+165
Water-Side Heat Exchanger	Water Temperature*3	°C	10 ~ 45	10 ~ 45	10 ~ 45
	Water Flow Rate	l/min	153.6	172.8	192
	Water Pressure Drop	kPa	18	23	27.7
Sound Pressure Level *2	Cooling/Heating	dB(A)	51	51	52
Piping Connection	Refrigerant Liquid Pipe	mm	Φ15.88	Φ15.88	Φ15.88
	Refrigerant Gas Pipe	mm	Φ28.6	Φ28.6	Φ28.6
	Water Pipe		DN32	DN32	DN32
	Thread of Connector		G1 1/4B	G1 1/4B	G1 1/4B
	Drain Pipe	mm	Φ18	Φ18	Φ18
Water-Side Bearing Pressure Ability		Kgf/cm²	20	20	20
Max. Connectable Indoor Units			26	29	32

NOTES:

- *1. Operation Condition:
Cooling: Indoor Temperature 27°C DB/19°C WB, Outdoor Temperature 27°C DB, Water Inlet/Outlet 30/35°C .
Heating: Indoor Temperature 20°C DB/15°C WB, Outdoor Temperature 20°C DB, Water Inlet 20°C .
- *2. 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 operating out of the allowable water temperature range, it won't start normally and will alarm.



24/26/28/30HP

Hi-FLEXi W Series		HP	24HP	26HP	28HP	30HP
Model Power Supply	AC3Φ 380~415V/50Hz		AVWW-229UESB	AVWW-250UESB	AVWW-268UESB	AVWW-290UESB
	AC3Φ 380V/60Hz		AVWW-229U7SB	AVWW-250U7SB	AVWW-268U7SB	AVWW-290U7SB
	AC3Φ 208~230V/60Hz		AVWW-229U8SB	AVWW-250U8SB	AVWW-268U8SB	AVWW-290U8SB
Combination			AVWW-76U* AVWW-76U* AVWW-76U*	AVWW-76U* AVWW-76U* AVWW-96U*	AVWW-96U* AVWW-96U* AVWW-96U*	AVWW-96U* AVWW-96U* AVWW-96U*
Cooling Operation	Nominal Capacity*1	KW	67.2	72.8	78.4	84
		KBtu/h	229.3	248.5	267.6	286.7
	Rated Input	KW	13.26	15.1	16.94	18.78
	EER		5.07	4.82	4.63	4.47
Heating Opeartion	Nominal Capacity*1	KW	75	81.5	88	94.5
		KBtu/h	256.0	278.1	300.3	322.5
	Rated Input	KW	12.6	14.21	15.82	17.43
	COP		5.95	5.74	5.56	5.42
Outer Dimensions	Height	mm	1,000	1,000	1,000	1,000
	Width	mm	780+780+780	780+780+780	780+780+780	780+780+780
	Depth	mm	550	550	550	550
	Aera	m²	1.29	1.29	1.29	1.29
Packing Dimensions(H×W×D)		mm	--	--	--	--
Net Weight		Kg	160+160+160	160+160+160	160+160+160	160+160+160
Gross Weight		Kg	165+165+165	165+165+165	165+165+165	165+165+165
Water-Side Heat Exchanger	Water Temperature*3	°C	10 ~ 45	10 ~ 45	10 ~ 45	10 ~ 45
	Water Flow Rate	l/min	230.4	249.6	268.8	288
	Water Pressure Drop	kPa	18	21.3	24.5	27.7
Sound Pressure Level *2	Cooling/Heating	dB(A)	55	55	55	56
Piping Connection	Refrigerant Liquid Pipe	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05
	Refrigerant Gas Pipe	mm	Φ28.6	Φ31.75	Φ31.75	Φ31.75
	Water Pipe		DN32	DN32	DN32	DN32
	Thread of Connector		G1 1/4B	G1 1/4B	G1 1/4B	G1 1/4B
	Drain Pipe	mm	Φ18	Φ18	Φ18	Φ18
Water-Side Bearing Pressure Ability		Kgf/cm²	20	20	20	20
Max. Connectable Indoor Units			36	36	36	36

NOTES:

- *1. Operation Condition:
Cooling: Indoor Temperature 27°C DB/19°C WB, Outdoor Temperature 27°C DB, Water Inlet/Outlet 30/35°C .
Heating: Indoor Temperature 20°C DB/15°C WB, Outdoor Temperature 20°C DB, Water Inlet 20°C .
- *2. 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 operating out of the allowable water temperature range, it won't start normally and will alarm.

Hi-AquaSmart Series

High-efficiency Air to Water Heat Pump
3 in 1 Solution

Hisense air to water heat pump system absorbs the free energy from outside atmosphere, which only consume less electricity to generate more heat energy. Hi-AquaSmart series have better performance, high efficiency, high energy-saving, less CO₂ emissions. This series can be easy to install on new building or existing building. High efficient Hisense air to water heat pumps can obviously reduce the energy consumption of the building. In addition, it can work with a traditional heating source, such as oil or gas boiler.

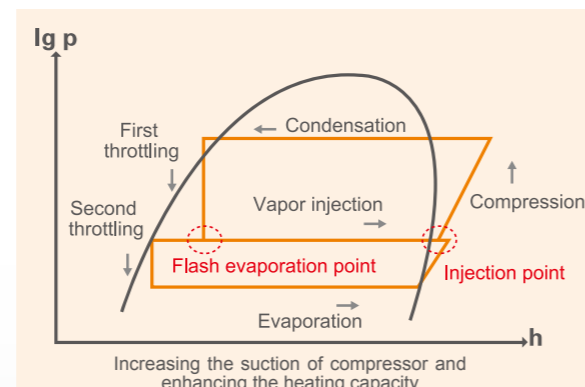
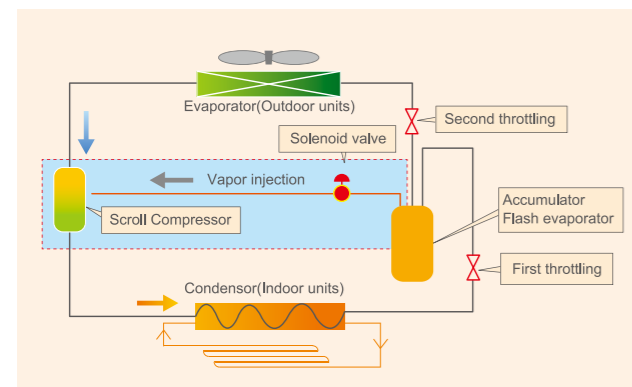


7/9/12kW

14/16kW

Enhanced Vapor Injection

Hisense adopts vapor injection scroll compressor, which provides higher compression ratio, smoother oil supply and lower noise level.



The vapor injection system and stepless inverter technique greatly improve the refrigerant cycle system. It effectively increases refrigerant flow through vapor injecting, thus substantially enhancing the heating capacity.

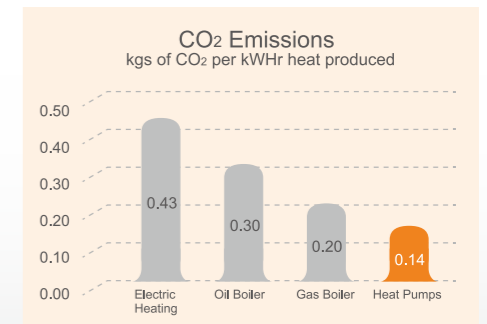
Less CO₂ Emissions

Using a heat pump can significantly reduce CO₂ emissions.

Lower CO₂ emissions

Because heat pumps collect free energy from the air, they produce much less CO₂.

- 66% less than Electric Heating
- 50% less than Oil Heating
- 30% less than Gas Heating



Economical

Compared to the other heating modes, such as electricity, gas, coal/oil, solar, and so on, the heat pump system is more efficient and the annual cost reduction is obvious.

Average annual running cost

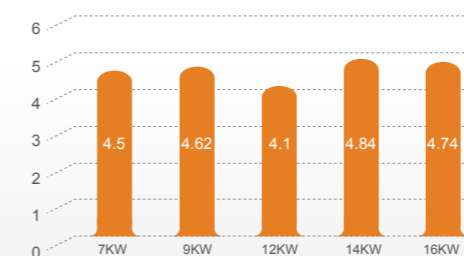
Direct electric heating	
Fuel boiler	
Gas condensing boiler	
Hi-AquaSmart	

High Efficient Water Pump (DC)

Hi-aquasmart series is equipped with a high efficient DC(inverter) water pump, which can minimize energy consumption during operating time. It has a better linear controllability for capacity output and wider adaptability for many application places compared with AC water pump.



COP up to 4.84



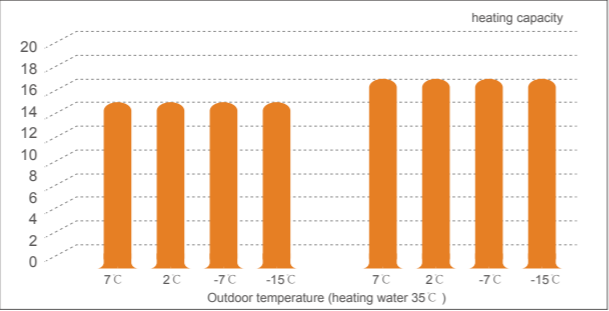
Hi-AquaSmart series is efficient, all products' COP is higher than 4.1, successfully meeting customers' requirements.

Capacity	Hisense	Brand A	Brand B
7kw	4.5	4.4	4.4
9kw	4.62	4.23	4.65
12kw	4.1	4.49	4.45
14kw	4.84	4.44	4.22
16kw	4.74	4.2	4.1

* Peak value
* at standard condition working at heating capacity at +7°C (heating water at 35°C)

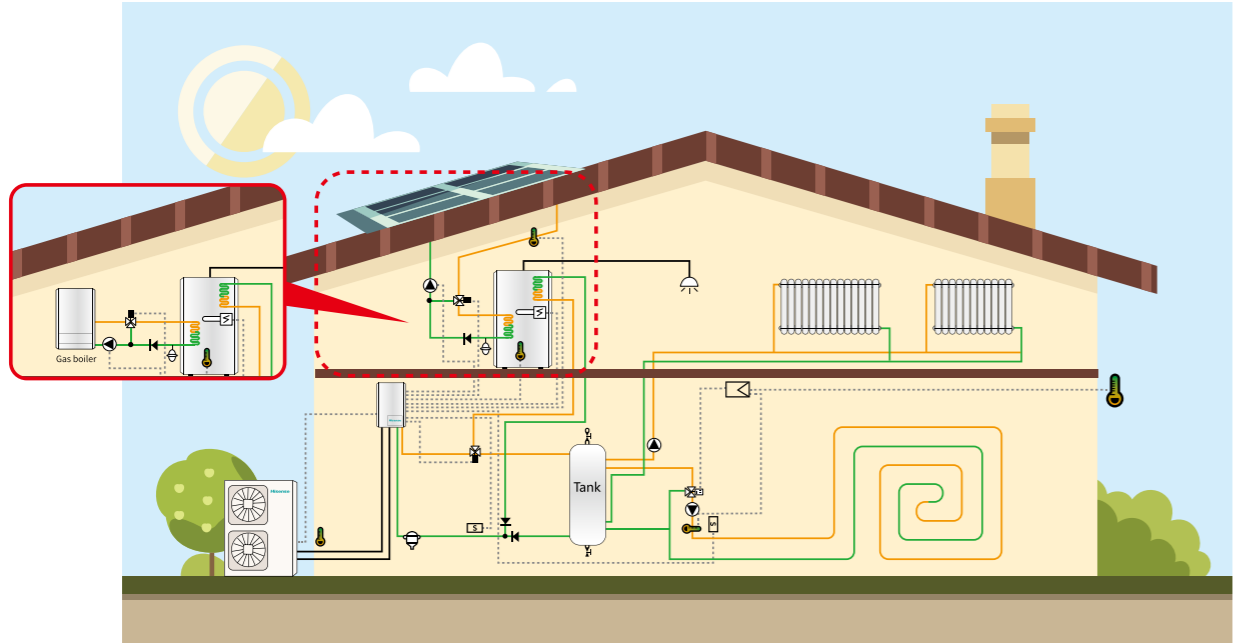
Strong Heating Capacity Under Low Ambient

Hi-AquaSmart(14/16kw) can maintain the same nominal capacity even at -15℃ without electrical booster heater. Heating capacity is stable even at low temperature, so designer don't need to oversize the heat pump's capacity.



Assembly Various Heat Sources

Hi-AquaSmart is allowed to combine with existing boiler or solar, so undoubtedly Hi-AquaSmart will be the best alternative to traditional boiler system in old building, and also as a hot water back-up solution to the existing boiler. In case that one heating unit was not working due to some unforeseen problem, this system can ensure heating system no stopping.



Operation system

- Underfloor heating
- Domestic hot water
- Low temperature radiators
- Hi-aquasmart+solar/boiler(optional)

	Temperature Sensor		Check Valve		Decantation tank
	Security Thermostat		Motorized 2 ways Valve		Expension tank
	Regulator		Motorized 3 ways Valve		
	Electric Heater				
	Water Pump				

Specification for Outdoor unit



Outdoor unit			AHW-070UCSDP	AHW-090UCSDP	AHW-120UCSDP	AHW-140UCSDP	AHW-160UCSDP
Indoor unit			AHM-070UXCSAPA3	AHM-160UXCSAPA3			
Refrigerant			R410A				
Power supply			1Φ,220~240V/50Hz				
Compressor			Double-rotor compressor			Scroll compressor with Vapor-injected	
Condition 1 Ta7/6°C LWC35°C (DT=5°C)	Heating capacity	kW	7	9	12	14	16
	COP		4.50	4.62	4.10	4.84	4.74
Condition 2 Ta7/6°C LWC45°C (DT=5°C)	Heating capacity	kW	6.2	8.1	10.8	12.5	14.8
	COP		3.87	3.97	3.53	3.70	3.95
Cooling Ta35°C LWE18°C (DT=5°C)	Cooling capacity	kW	6.5	8	10.5	12	13.5
	EER		3.00	2.90	2.80	2.77	2.53
Dimensions	H*W*D	mm	800×950×370			1380x950x370	
Operation Ambient Range	Heating	°C	-20~35				
	DHW	°C	-20~43				
	cooling	°C	10~43				
Heating Sound pressure		dB(A)	51	52	54	51	52
Cooling Sound pressure		dB(A)	50	51	53	50	51

Note:
The cooling and heating performance in agreement with EN14511.
Heating condition: Outdoor Air Temperature 7℃ DB/6℃ DB, Inlet/Outlet water temperature 30℃ /35℃ .
Cooling condition: Outdoor Air Temperature 35℃ , Inlet/Outlet water temperature 12℃ /7℃ .
Piping length:7.5 meter; Piping lift:0 meter

Specification for Indoor unit



Capacity		AHM-070UXCSAPA3	AHM-160UXCSAPA3
Power supply		1Φ,220~240V/50Hz	
Heating capacity	kW	7	16
Hot water capacity	kW	7	16
Power input	kW	0.245	0.245
Dimensions	H*W*D	890×520×320	
Heat Exchanger		plate heat exchanger	
Hot water temperature	Heating	℃	25 to 55
	DHW	℃	25 to 55
	cooling	℃	5 to 22
Sound pressure level	dB(A)	33	33
Piping connections	gas	mm	9.53
	liquid	mm	15.88
Water pump	type	DC	DC
	brand	Grundfos	Grundfos
Booster heating	kw	3	3

Central Hot Water Tank



Model		HDHWT-150ES/3H1Q	HDHWT-150E/3H1Q	HDHWT-200E/3H1Q	HDHWT-300E/3H1Q
Power Supply		AC1Φ, 220~240V/50HZ			
Unit Case	Color	Ivory White			
	Material	Colored Steel Plate			
Dimension	Diameter × Height	mm	471×1608	648×870	648×1070
Water Tank Net Weight		kg	58	65	77
Main Unit	Water Storage Capacity	L	150	150	200
	Material	Enamel Steel Plate			
	Maximum Temperature	℃	75		
	Maximum Pressure	bar	8.5		
Auxiliary Electric Heating	Heating Capacity	kW	3.0		
Temperature Sensor	Length (attached)	m	10		
Water Pipe	Inlet Diameter	inch	G3/4"		
	Outlet Diameter	inch	G3/4"		
	O.D. of Cold Water Pipe	inch	Rp3/4"		
O.D. of Hot Water Pipe		inch	Rp3/4"		

Hisense Multi-function Series

3in1

Home Central Air Conditioning · Radiant Floor Heating · Domestic Hot Water 3 in 1

Hisense Multifunction VRF System is a multifunctional intelligent ecology home system with integration of home central air conditioning, radiant floor heating and domestic hot water. Utilizing high efficient DC inverter technology, air source heat pump technology and heat recovery technology, it builds a more intelligent and more comfortable modern home life.

- High Efficiency
- Comfort and Health
- Hidden Beauty
- Wide Operation Range
- Stable and Reliable



Radiant floor heating is the most comfortable, optimal heating system nowadays.

Hisense Multifunction VRF radiant floor heating system utilizes Hisense's leading multi-split technology and advanced air-source heat pump technology, which is outstanding in floor heating system with integration of high efficiency, comfort and environmental protection.

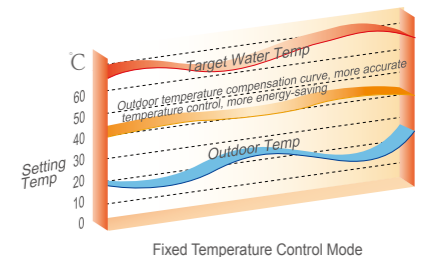
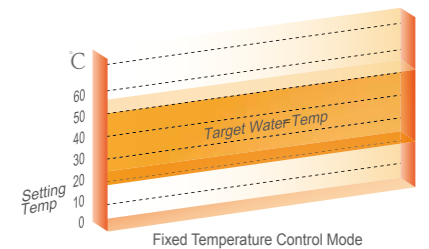
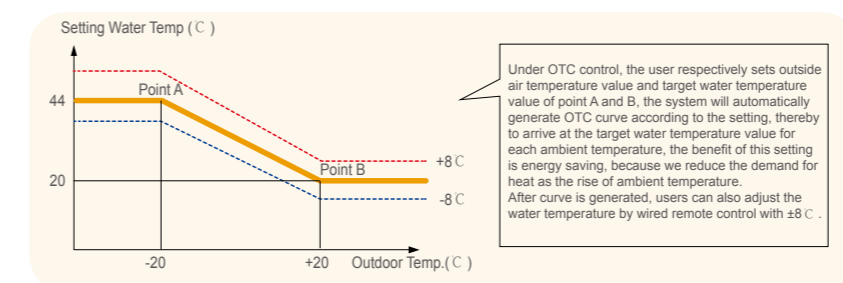
Dual Water Temperature Control Technology

Fixed Water Temperature Control (Fix Control Mode):

The supplied water temperature maintains constant during operation, Users can set supplied water temperature value within the range of 20~55℃.

Variable Temperature Control (OTC Control Mode):

System automatically adjusts water temperature according to temperature compensation curve basing on outdoor temperature to achieve optimum indoor temperature and reduce system power consumption. The compensation curve can also be adjusted manually according to operation conditions to realize energy saving.

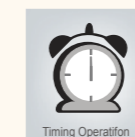


Safe and Reliable

Floor heating pipes are laid under the floor with advantages such as good stability, less vulnerable to external damage and corrosion, and its lifespan is almost the same with the building. Compared with other heating equipment, the cost of repair and maintenance afterwards is greatly reduced. At the same time, gas leak, explosion or other accidents caused by gas or stove can be avoided.

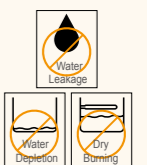
Operation protection of the water system

Starting water pump automatically to avoid water scale generation and ensure the operation of water pump, three-way valve or other waterways parts.



Water system safeguards

Besides safety valve and exhaust valve, the water flow switch and low pressure switch have been added into system, which can effectively avoid water leakage, water depletion, electric heater dry burning and other accidents.

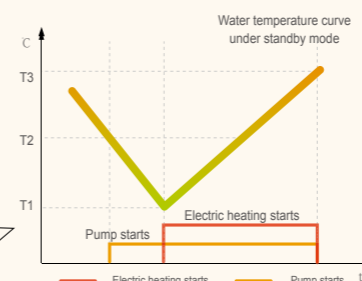


Antifreezing Protection of Water System

Automatic antifreezing function can avoid pipe cracking, leakage and other accidents when equipment is not used in winter.

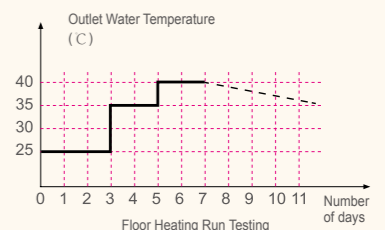
Under standby mode

Constantly test the water temperature of inlet and outlet pipes. When the temperature is below T2, the pump starts. When the temperature is below T1, the pump and electric heating start until the water temperature rises to T3.



Commissioning Protection of Floor Heating

Floor heating pipes need to warm gradually at the beginning of operation, in order to prevent problems such as floor deformation or leakage caused by sudden heat. Commissioning protection can ensure safe run testing.



Hisense Multifunction VRF hot water system enables constant healthy hot water supply around the clock

Multiple Hot Water Production Mode

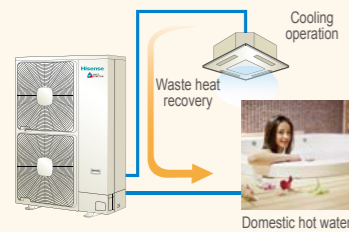
Heat Recovery Mode

Under cooling operation in summer, the heat discharged from outdoor unit can be recovered directly and used for heating domestic hot water, allowing you to enjoy free and convenient hot water supply.

Power consumption analysis

When heating water by heat recovery mode, indoor unit performs cooling operation, the heat discharged from indoor unit is recovered and used for heating domestic hot water. Producing domestic hot water does not consume additional power, thereby the produced domestic hot water can be regarded as being acquired free of charge.

Power consumption index
0%



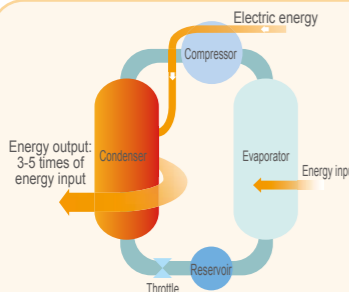
Heat Pump Mode

When the desired domestic hot water temp is below 55℃, hot water can be heated using air source heat pump, saving more than 60% of electricity than direct electric heating.

Power consumption analysis

When using heat pump to heat hot water, power consumption required for producing one share of hot water is only 33% of the heat required for heating hot water when COP=3.0.

Power consumption index
33%



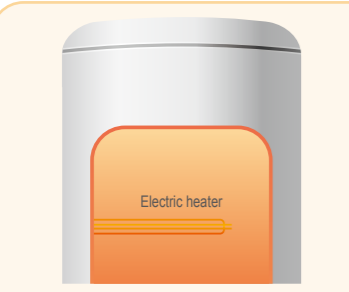
Electric Heating Mode

When the desired domestic hot water temp is higher than 55℃, use energy-efficient heat pump to heat water to 55℃, then use auxiliary electric heating to heat water to a high temperature up to at most 75℃.

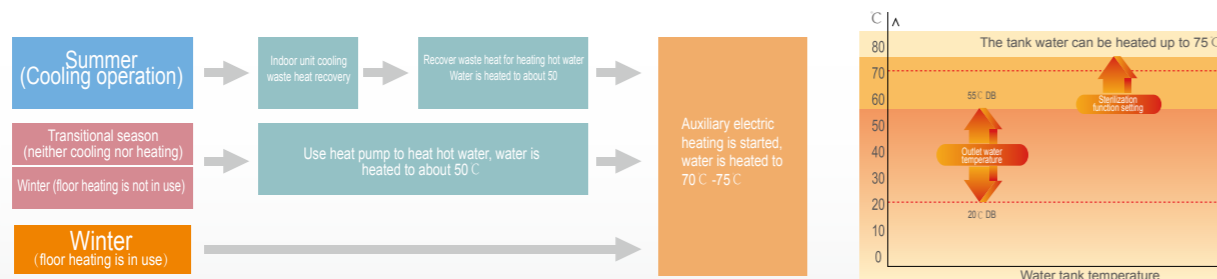
Power consumption analysis

When heating hot water by electric heating, heat required for producing one share of hot water need consume electricity equivalent to the same amount of heat in the case of 100% of efficiency conversion.

Power consumption index
100%



Multifunction VRF Hot Water Production Flow and Water Tank Temperature Range



Note: The actual data are closely related to using environment and conditions, the above data are for reference only.

Hisense home central air conditioning has been widely recognized by the market and users owing to its intelligence, comfort, high-efficiency and energy saving.

Requirements for high-quality decoration and more comfort in villa and luxury residence make Hisense home central air conditioning play a principal role in home daily life.

Hisense, the mark of high-quality life!

Delicate and Convenient

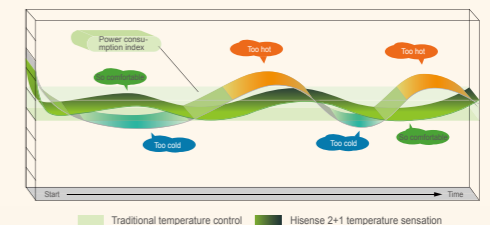
Outdoor unit can be easily installed in small space, one outdoor unit can simultaneously satisfy the need for cool and warmth of multiple rooms, extending indoor exquisiteness and beauty to outdoors at the meantime.



"Three-dimensional" Cozy and Warm Feeling

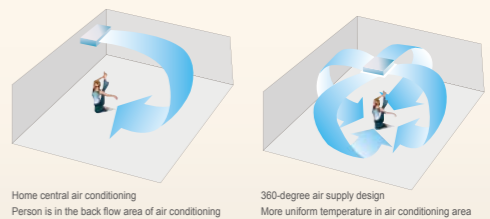
Unique 2+1 dimensional temperature sensation

Three temperature sensors including particular one on indoor unit air outlet can intelligently sense the temperature change of each sensitive point indoors and outdoors, dynamically calculate and adjust real-time output of compressor system, and balance the energy exchange variation of each room. Soft air supply keeps tiny temperature fluctuations in an optimum condition and brings gentle refreshing and intimate warmth.



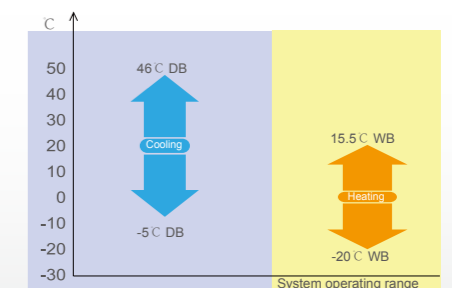
Comfortable air supply

Hisense indoor unit can adopt multiple air supply modes such as ceiling-supply and ceiling-return, side-supply and back-return, side-supply and bottom-return etc. according to room structure, making the air flow distribution more excellent. The airflow can be distributed to every corner, more uniform temperature distribution and more comfort.



Wide Operating Range

System can handle a wide range of outside air condition. The lowest temperature in winter is -20℃ WB, which can meet the heating needs of cold regions.



Outdoor Unit Parameters

Model			AFW-38U4SC	AFW-48U4SC	AFW-54U4SC
Heating(A2W)	Rated Capacity (1)	kW	11.2	14	16
	Rated Power (1)	kW	2.51	3.21	3.77
	COP (1)	-	4.46	4.36	4.24
	Capacity (A 2°C/W 35°C)(2)	kW	8.96	11.2	12.8
	COP (A 2°C/W 35°C)(2)	-	3.12	3.05	2.97
	Capacity(A -7°C/W 35°C)(3)	kW	8.6	10.8	12.3
	COP (A -7°C/W 35°C)(3)	-	2.2	2.14	2.09
Energy Efficiency Grade	Heating (35°C)		A+	A+	127%,A+
	Heating (35°C)		A+	A+	118%,A+
Cooling(A2A)	Rated Capacity (4)	kW	11.2	14	15.5
	Rated Power (4)	kW	2.99	3.92	4.44
	EER (4)	-	3.75	3.57	3.49
Heating(A2A)	Rated Capacity (4)	kW	12.5	16	18
	Rated Power (4)	kW	2.98	4.03	4.74
	COP (4)	-	4.19	3.97	3.8
Outdoor Units	Outer Dimensions (Height × Width × Depth)	mm	1380×950×370		
	Weight	Kg	102	103	104
	Sound Pressure level (5)	dB(A)	50/53	51/54	53/55
	Sound Power Level (5)	dB(A)	67	68	69
	Power Supply	Φ,V,Hz	1220-240~, 50Hz		
	Inverter Type	-	DC Inverter		
	Cabinet Color	-	Ivory White		
	Heat Exchanger	-	Multi-Pass Cross-Finned Tube		
	Compressor Type	-	Hermetic (Scroll)		
	Compressor Output	kW	2.2	2.5	2.8
	Compressor Startup Mode	-	Directly startup		
	Fan Type	-	Axial flow fan		
	Fan Output	w	51×2	51×2	51×2
	Fan Air Volume	m³/min	90	90	100
	Fan Startup Mode	-	Directly startup		
	Cooling Operation Range (Outdoor Air Inlet Temperature)	°C	-5 ~ 43		
	Heating Operation Range (Outdoor Air Inlet Temperature)	°C	-23 ~ 15		
	Floor Heating Operation Range (Outdoor Air Inlet Temperature)	°C	-23 ~ 15		
	Domestic Hot Water Operation Range (Outdoor Air Inlet Temperature)	°C	-23 ~ 43		
Installation Data	Liquid Line	mm	Φ9.53		
	High Pressure Gas Line	mm	Φ12.7		
	Gas Line	mm	Φ15.88		
	Type	-	R410A		
Refrigerant	Refrigerant Charge	kg	3.6		
	Flow Control	-	Micro-Computer Control Expansion Valve		

NOTES:

When the connecting capacity rate or indoor unit and outdoor unit is 100%,the cooling capacity and heating capacity are based on the following conditions:

1. Heating(A2W) conditions: Water inlet/outlet temperature:30°C DB(86°F DB)/35°C DB(95°F DB), Outdoor air inlet temperature:7°C DB(45°F DB), 6°C WB(43°F WB)

2. Heating(A2W) conditions: Water inlet/outlet temperature:30°C DB(86°F DB)/35°C DB(95°F DB), Outdoor air inlet temperature:2°C DB(35.6°F DB)

3. Heating(A2W) conditions: Water inlet/outlet temperature:30°C DB(86°F DB)/35°C DB(95°F DB), Outdoor air inlet temperature:7°C DB(19.4°F DB)

4. Cooling(A2A) conditions: Piping length: 7.5 meters Indoor ait 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(A2A) conditions:Indoor air inlet temperature: 20°C DB(68°F DB), 15.0°C WB(59°F WB) Outdoot air inlet temperature: 7°C DB(45°F DB),6°C WB(43°F WB)

5. The sound pressure level is based on following conditions: 1Meter from the unit service cover surface, and1.5 Meters from floor level, The above data was measure in an anechoic chamber so that reflected sound should be taken into consideration in the field

6.The final appearance of outdoor unit is subject to the actual product.



Water Module

Model			AFM-54EX4SA
Power Supply			AC1Φ, 220~240V/50HZ
Rated Cooling Capacity		kW	—
Rated Heating Capacity		kW	16
Electrical Heater Capacity		kW	3
Shell	Cabinet Color		Ivory White
	Materialr		Steel
Dimensions (Height × Width×Depth)		mm	890×520×320
Weight	Net Weight	kg	58
	Gross Weight	kg	74
Water Pump	Type		Constant
	Lift	kpa	60
	Input	W	151
Water Pipe	Type		Plate heat exchanger
	Number		1
	Water Storage Capacity	L	2.91
	Minimum Flow	L/min	18
	Rated Flow	L/min	45.8
	Maximum Flow	L/min	-
	Insulation Material		Foamed plastic
Expansion Tank	Volume	L	8
	Maximum Pressure	bar	3
	The pre pressure	bar	1
Water Filter	Pore Size	mm	1
	Material		Brass
Water Circulating System	Interface Size	inch	G1-1/4"
	Pipe Size	inch	G1-1/4"
	Safety Valve Specification	bar	3
	Total Water Storage	L	-
Refrigerant circulating System	Gas Pipe Size	mm	Φ12.7
	Liquid Pipe Size	mm	Φ9.53
Sound Pressure Level		dBA	32
Operation range	Temperature of Outdoor Air	°CDB	-23~43
	Temperature of Water Supply	°C	20~55



Central Hot Water Tank

Central Hot Water Tank

Model			HDHWT -150ES/3H1Q	HDHWT -150E/3H1Q	HDHWT -200E/3H1Q	HDHWT -300E/3H1Q				
Power Supply			AC1Φ, 220~240V/50HZ							
Unit Case	Color	Ivory White								
	Material	Colored Steel Plate								
Dimension	Diameter × Height	mm	471×1608	648×870	648×1070	648×1462				
Water Tank Net Weight		kg	58	65	77	96				
Main Unit	Water Storage Capacity	L	150	150	200	300				
	Materia	Enamel Steel Plate								
	Maximum Temperature	°C	75							
	Maximum Pressure	bar	8.5							
Auxiliary Electric Heating	Heating Capacity	kW	3.0							
Temperature Sensor	Length (attached)	m	10							
Water Pipe	Inlet Diameter	inch	G3/4"							
	Outlet Diameter	inch	G3/4"							
	O.D. of Cold Water Pipe	inch	Rp3/4"							
	O.D. of Hot Water Pipe	inch	Rp3/4"							

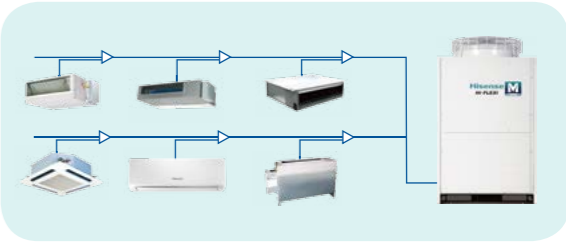


Hisense Hi-Flexi & Hi-Smart series provide a wide selection of indoor units for indoor decoration and create a personalized living space.

HP		0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	3.0	3.3	4.0	5.0	6.0	8	10
kBtu/h		5	7	9	12	14	17	18	22	24	27	30	38	48	54	76	96
1-Way Cassette Type			●	●	●	●		●		●							
2-Way Cassette Type			●	●	●	●		●		●	●	●	●	●	●		
4-Way Cassette Type				●	●	●	●	●	●	●	●	●	●	●	●		
Compact 4-Way Cassette Type		●	●	●	●	●	●										
Ceiling Ducted Type (High Static Pressure)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Ducted Type (Low Static Pressure)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Ducted Type (Low-height)		●	●	●	●	●	●	●	●	●							
Ceiling Ducted Type (Slim Low-height)			●	●	●	●											
Ceiling Ducted Type (DC Low-height)			●	●	●	●	●	●	●	●							
Ceiling & Floor Type							●	●	●	●	●	●	●	●			
Wall Mounted Type			●	●	●	●	●	●	●	●							
Floor Concealed Type			●			●		●		●							

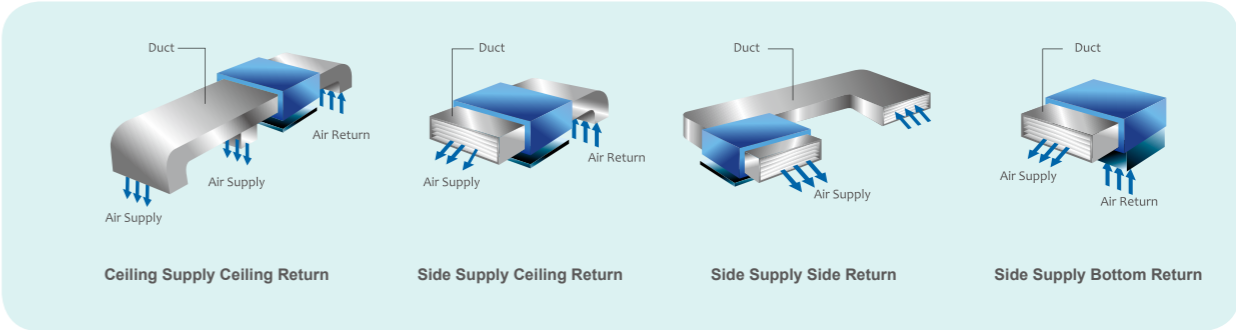
Various Model Types Easily Match Different

Wide capacity range of outdoor units enables free model combination according to the actual situation of building. There are 12 types of indoor units for selection. Customer can choose appropriate type and capacity of indoor units according to interior decoration and functions.



Flexible Ways of Air Supply and Air Return

Different duct types can be chosen to match different construction structure and interior decoration, which meets various personalized requirement of customers.

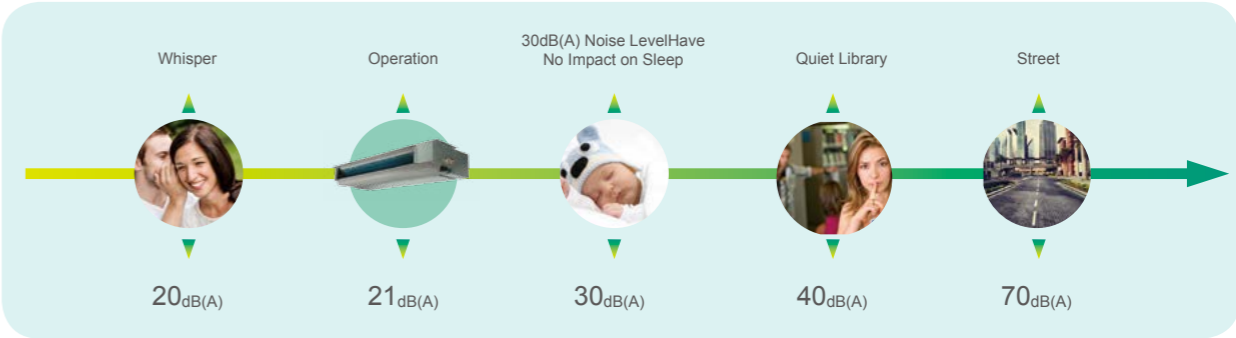


Precise Room Temperature Control

Hisense sets temperature sensors on air outlet /air inlet of indoor units and remote controller, and adopts microcomputer control 2000-pulse high precision electronic expansion valve to adjust refrigerant flow rate, high precision electronic expansion valve to adjust refrigerant flow rate, which can maintain the room temperature within 0.5℃ of setting temperature and satisfy the indoor comfort requirement.

Top Class Low Noise Design

In accordance with application situation and structure, Hisense has been studying the technical and installation methods for noise reduction of indoor units from various aspects of fan motor, fan blade and air duct layout, which provides customers with the quietest air conditioned environment.



1-Way Cassette Type



Fashionable Appearance, Convenient Installation

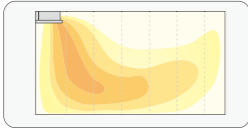
Customers can choose the installation method according to different situation. The concise fashion elements style is suitable for renewal projects and un-decorated shopping malls or classrooms.

Efficiency DC Motor, Adjustable Air Speed

Adoption of efficient DC motor and optimized duct design assures the smooth air flow; at the same time, customers can adjust the air speed according to the actual need.

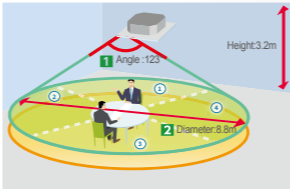
Wider 3D-air Flow Range

Broad air deflector design realized broad air supply range. The wind direction can be adjusted according to the need thus makes the customers feel more comfortable. The fan blades will return to the original position when the unit is off.



Intelligent sensor(Optional)

- People detecting,moving or not moving
- Air blow to the people or avoid people
- Bottom temperature detecting
- Working load forecast
- Auto stop after people leave



Standard Equipped Drain Pump

Standard equipped with drain pump, maximum drainage height is 1200mm.

Fresh Air Introducing

The unit can introduce the fresh air from the external environment. With the filter facility, the air quality is garunteed. (For specific ,please contact with the local engineer)

Indoor unit		1-Way Cassette Type						
Model	Power Supply	AC1Φ 220V~240V /50Hz/60Hz	AVY-07UXJSJA	AVY-09UXJSJA	AVY-12UXJSJA	AVY-14UXJSJA	AVY-18UXJSKA	AVY-24UXJSKA
Cooling Operation		kW	2.2	2.8	3.6	4.0	5.6	7.1
		kcal/h	1,900	2,400	3,100	3,400	4,800	6,100
		Btu/h	7,500	9,600	12,300	13,600	19,100	24,200
Heating Opeartion		kW	2.5	3.2	4.0	4.5	6.3	8
		kcal/h	2,100	2,700	3,400	3,800	5,400	6,800
		Btu/h	85,00	10,900	13,600	15,400	21,500	27,300
Sound Pressure Level		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
Outer Dimensions (H×W×D)		mm	192×910×470					192×1,180×470
Net Weight		kg	19	19	20	20	24	24
Refrigerant			R410A (Nitrogen-charged for corrosion-resistance)					
Indoor Fan Air Flow Rate		m³/h	372/354/336/306/288/276	396/372/336/306/288/276	498/438/408/372/336/306	498/438/408/372/336/306	726/594/528/492/468/396	936/756/672/594/504/426
Motor Power		kW	0.04	0.04	0.04	0.04	0.06	0.06
Refrigerant Piping Connection			Flare-nut Connection (with Flare Nuts)					
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate Drain			VP25 (Outer Diameter 32)					
Panel Model			HP-D-NA	HP-D-NA	HP-D-NA	HP-D-NA	HP-E-NA	HP-E-NA
Cabinet Color			Neutral White					
Outer Dimensions (H×W×D)		mm	55×1,100×550	55×1,100×550	55×1,100×550	55×1,100×550	55×1,370×550	55×1,370×550
Net Weight		kg	5	5	5	5	6	6

NOTES:

- The nominal cooling capacity is based on following conditions:
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB) Outdoor Air Inlet Temperature: 35°C DB(95°F DB) Piping Length: 7.5 Meters Piping Lift: 0 Meter
- The sound pressure level is based on following condations:
1.0m beneath the unit,1.0m from Discharge Grille.The above data was measured in an anechoic chamber so that 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.

2-Way Cassette Type

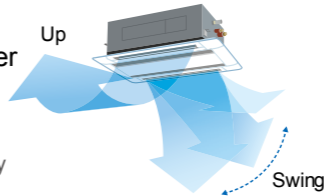


Efficiency DC Motor, Adjustable Air Speed

Adoption of efficient DC motor and optimized duct design assures the smooth air flow; at the same time, customers can adjust the air speed according to the actual need.

2-Way Individual Louver

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



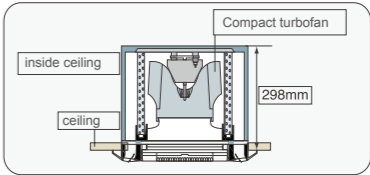
Super Compact Structure Design, Easy For Installation

Standard Equipped Drain Pump

Maximum drainage height is 1200mm

Low Noise Level Design

The high efficiency turbofan form the wind pressure by rotating. Larger fan blades and slower fan speed realize the low operating noise. Also, the PWM control method lower the motor noise greatly.



Fresh Air Introducing

The unit can introduce the fresh air from the external environment. With the filter facility, the air quality is ensured. (For specific ,please contact with the local engineer)

Indoor unit		2-Way cassette Type											
Model	Power Supply	AC1Φ 220V~240V /50Hz/60Hz	AVL-07 UXJSGA	AVL-09 UXJSGA	AVL-12 UXJSGA	AVL-14 UXJSGA	AVL-18 UXJSGA	AVL-24 UXJSGA	AVL-27 UXJSGA	AVL-30 UXJSGA	AVL-38 UXJSHA	AVL-48 UXJSHA	AVL-54 UXJSHA
Cooling Operation		kW	2.2	2.8	3.6	4.3	5.6	7.1	8.4	9.0	11.2	14.0	16.0
		kcal/h	1,900	2,400	3,100	3,700	4,800	6,100	6,900	7,700	9,600	12,000	13,800
		Btu/h	7,500	9,600	12,300	14,700	19,100	24,200	28,700	30,700	38,200	47,800	54,600
Heating Opeartion		kW	2.8	3.3	4.0	4.9	6.5	8.0	9.0	10.0	13.0	16.0	18.0
		kcal/h	2,400	2,800	3,400	4,200	5,600	6,800	7,800	8,600	11,200	13,800	15,500
		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 Level		dB(A)	32/30/29/27	32/30/29/27	34/31/30/28	40/37/34/32	42/39/36/33	45/42/40/36	47/44/40/36	49/46/42/37	46/44/40/38	48/45/42/38	49/46/43/40
Outer Dimensions (H×W×D)		mm	298×860×630								298×1,420×630		
Net Weight		kg	22	22	22	24	24	24	24	24	39	39	39
Refrigerant			R410A(Nitrogen-charged for corrosion-resistance)										
Indoor Fan Air Flow Rate		m³/h	600/510 /432/360	660/564 /492/396	720/630 /534/450	900/792 /690/594	1,020/894 /780/672	1,140/984 /858/738	1,260/1,104 /936/756	1,320/1,158 /978/786	1,800/1,584 /1,386/1,188	2,100/1,848 /1,614/1,266	2,220/1,950 /1,704/1,446
Motor Power		kW	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057x2	0.057x2	0.057x2
Refrigerant Piping Connection			Flare-nut Connection(with Flare Nuts)										
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25(Outer Diameter Φ32)										
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
Cabinet Color			Neutral White										
Outer Dimensions (H×W×D)		mm	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,100×710	30×1,660×710	30×1,660×710	30×1,660×710
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

NOTES:

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

4-Way Cassette Type

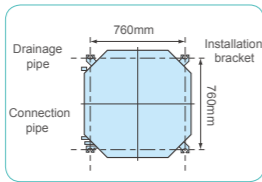


Compact and Thin

The height of the unit is just 248mm (Less than 24.2KBtu/h), so it can be installed in a small space inside a ceiling.

Installation Direction Can be Changed Easily for Convenient Pipe Connection

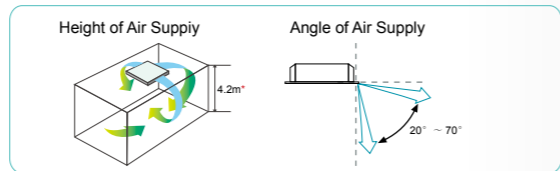
Squared design for unit body and installation bracket, unit body can be installed in any direction horizontally for convenient pipe connect position.



Power Input Reduced by Applying of New Developed DC Fan Motor

With several new technologies such as a ferritic magnetic surface-mounted rotor, centralized winding system and split core system, the motor efficiency is improved in all aspects.

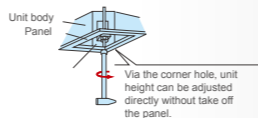
With Broad Range of Air Supply, is Suitable to be Used in High Ceiling and Great Space



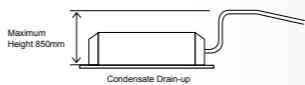
when indoor unit model is AVC 27~54*
when indoor unit model is AVC 09*~24*, the Value is 3.5m.

Body Height Easily Adjustable in the Corner Pockets

A pocket is provided for each of the four panel corners, so that the body height can be adjusted easily without removing the panel.



Drain Pump as Standard Part



Indoor unit		4-Way Cassette Type											
Model Power Supply	AC1Φ, 220~240V/50Hz	AVC-09 UXCSEB	AVC-12 UXCSEB	AVC-14 UXCSEB	AVC-17 UXCSEB	AVC-18 UXCSEB	AVC-22 UXCSEB	AVC-24 UXCSEB	AVC-27 UXCSEB	AVC-30 UXCSEB	AVC-38 UXCSEB	AVC-48 UXCSEB	AVC-54 UXCSEB
	AC1Φ, 220V/60Hz	AVC-09 UX2SEB	AVC-12 UX2SEB	AVC-14 UX2SEB	AVC-17 UX2SEB	AVC-18 UX2SEB	AVC-22 UX2SEB	AVC-24 UX2SEB	AVC-27 UX2SEB	AVC-30 UX2SEB	AVC-38 UX2SEB	AVC-48 UX2SEB	AVC-54 UX2SEB
Nominal Cooling Capacity	kW	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	1.2	114.2	16.0
	kcal/h	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800
	Btu/h	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600
Nominal Heating Capacity	kW	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0
	kcal/h	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500
	Btu/h	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400
Noise Level (H/M/L)	dB(A)	30-29-27	31-29-27	31-29-27	32-30-27	32-30-27	33-31-29	33-31-29	36-34-32	41-38-35	44-39-36	44-42-38	
Outer Dimensions	H	mm	248	248	248	248	248	248	298	298	298	298	298
	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
Net Weight	kg	22	22	22	23	23	23	23	24	24	27	27	27
Air Flow Rate (H/M/L)	m³/h	780/720/660	900/810/720	900/810/720	960/840/720	960/840/720	1,140/1,020/840	1,200/1,020/900	1,560/1,380/1,200	1,560/1,380/1,200	1,920/1,680/1,440	2,040/1,740/1,500	2,220/1,920/1,620
Motor Power	W	40	50	50	50	50	60	60	90	90	120	150	160
Piping Connections		VP25(OuterDiameterΦ32)											
Liquid Line	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
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain		Flare-nut Connection(with Flare Nuts)											
Approximate Packing Measurement	m³	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.26	0.26	0.26	0.26	0.26
Standard Accessories		Suspension Drackets											
Panel Model		HPE-A-NA											
Cabinet Color		Neutral White											
Outer Dimensions	mm	37	37	37	37	37	37	37	37	37	37	37	37
	mm	950	950	950	950	950	950	950	950	950	950	950	950
	mm	950	950	950	950	950	950	950	950	950	950	950	950
Net Weight	kg	6	6	6	6	6	6	6	6	6	6	6	6
Packing Volume	m³	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

NOTES:

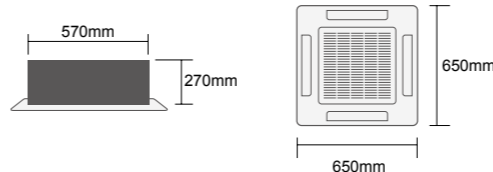
- The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 °C DB(80°F DB), 19.0 °C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 °C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation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

4-Way Cassette Type (Compact)



Compact Design

Panel sizes are unified to a 650mm square, neat and elegance, and fit small ceiling panel, making installation easier in grid ceilings.



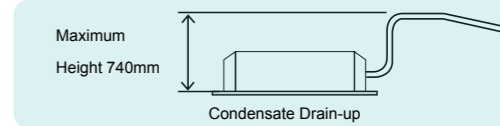
Broad Range of Air Supply

The recommended installation height is 2.5 meter, and it's also available for high ceiling installation, by using the fan motor speed-up setting. To shift to SHi setting , connect cable terminal of SHi to the power line of the fan motor.

Convenience for Washing Filter

“FILTER” will be shown on the display of the remote control switch after approximately 1200 hours operation. And the filter can be taken out easily.

Drain Pump as Standard Part



* The wireless remote controller HYE-Q01 is standard for 4-Way Cassette Type (Compact)



Indoor unit		Compact 4-Way Cassette Type					
Model Power Supply	AC1Φ, 220~240V/50Hz	AVC-05URCSAB NEW	AVC-07URCSAB	AVC-09URCSAB	AVC-12URCSAB	AVC-14URCSAB	AVC-17URCSAB
	AC1Φ, 220V/60Hz	—	AVC-07UR2SAB	AVC-09UR2SAB	AVC-12UR2SAB	AVC-14UR2SAB	AVC-17UR2SAB
Nominal Cooling Capacity	kW	1.7	2.2	2.8	3.6	4.3	5.0
	kcal/h	1,500	1,900	2,400	3,100	3,700	4,300
	Btu/h	5,800	7,500	9,600	12,300	14,700	17,100
Nominal Heating Capacity	kW	1.9	2.8	3.3	4.2	4.9	5.6
	kcal/h	1,700	2,400	2,800	3,600	4,200	4,800
	Btu/h	6,500	9,600	11,300	14,300	16,700	19,100
Noise Level (H/M/L)	dB(A)	39-34-30	39-34-30	39-34-30	39-34-30	41-38-33	44-41-37
Outer Dimensions	H	mm	270	270	270	270	270
	W	mm	570	570	570	570	570
	D	mm	570	570	570	570	570
Net Weight	kg	20	20	20	20	20	20
Air Flow Rate (H/M/L)	m³/h	570/480/384	570/480/384	570/480/384	570/480/384	654/564/456	792/690/588
Motor Power	W	63	63	63	63	71	89
Piping Connections		Flare-nut Connection(with Flare Nuts)					
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Condensate Drain		VP25(Outer Diameter Φ32)					
Approximate Packing Measurement	m³	0.18	0.18	0.18	0.18	0.18	0.18
Standard Accessories		Suspension Drackets					
Panel Model		HPE-CR-NA					
Cabinet Color		Neutral White					
Outer Dimensions	H	mm	30	30	30	30	30
	W	mm	650	650	650	650	650
	D	mm	650	650	650	650	650
Net Weight	kg	2.4	2.4	2.4	2.4	2.4	2.4
Packing Volume	m³	0.07	0.07	0.07	0.07	0.07	0.07

NOTES:

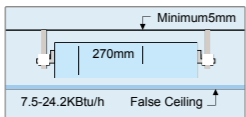
- The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 °C DB(80°F DB), 19.0 °C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 °C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation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

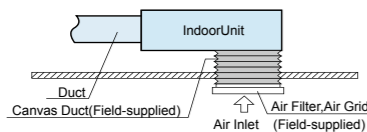


Installation Space-saving

Less than 270mm in height can be easily fit into the limited space in the false ceiling (7.5-24.2KBtu/h).



Flexibly Supports a Wide Range OfInstallation



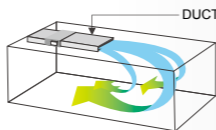
NOTE:
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

Fresh Indoor Air

By introducing fresh outdoor air and being equipped with air filter to keep indoor air clean.

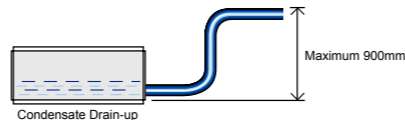
Excellent Air Flow

Cooling and heating air distributed from the unit to indoor space through ducts, which creates a comfortable environment.



Optional Parts

Drain pump can be supplied as optional part.

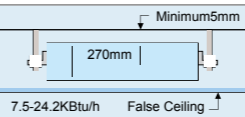


Ceiling Ducted Type (Low Static Pressure)

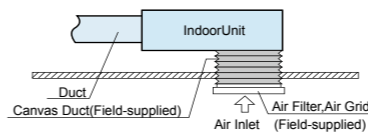


Installation Space-saving

Less than 270mm in height can be easily fit into the limited space in the false ceiling (7.5-24.2KBtu/h).



Flexibly Supports a Wide Range OfInstallation



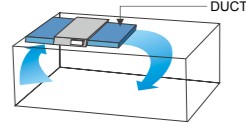
NOTE:
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

Fresh Indoor Air

By introducing fresh outdoor air and being equipped with air filter to keep indoor air clean.

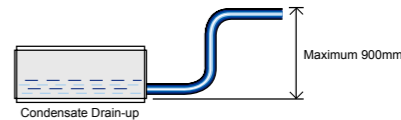
Excellent Air Flow

Cooling and heating air distributed from the unit to indoor space through ducts, which creates a comfortable environment.



Optional Parts

Drain pump can be supplied as optional part.



Indoor unit			Ceiling Ducted type (High Static Pressure)													
Model Power Supply	AC1Φ 220V/50Hz	AVD-07 UXCSAH	AVD-09 UXCSAH	AVD-12 UXCSAH	AVD-14 UXCSAH	AVD-17 UXCSBH	AVD-18 UXCSBH	AVD-22 UXCSBH	AVD-24 UXCSBH	AVD-27 UXCSCH	AVD-30 UXCSCH	AVD-38 UXCSCH	AVD-48 UXCSDH	AVD-54 UXCSDH	AVD-76 UX6SEH*1	AVD-96 UX6SFH*1
	AC1Φ 220V/60Hz	AVD-07 UX2SAH	AVD-09 UX2SAH	AVD-12 UX2SAH	AVD-14 UX2SAH	AVD-17 UX2SBH	AVD-18 UX2SBH	AVD-22 UX2SBH	AVD-24 UX2SBH	AVD-27 UX2SCH	AVD-30 UX2SCH	AVD-38 UX2SCH	AVD-48 UX2SDH	AVD-54 UX2SDH	AVD-76 UX2SFH*2	AVD-96 UX2SFH*2
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0
	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100
	Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600
Nominal Heating Capacity	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0	25.0	31.5
	kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500	21,500	27,100
	Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400	85,300	107,500
Noise Level (H/M/L)	dB(A)	33-31-29	33-31-29	33-31-29	33-31-29	34-32-30	34-32-30	36-34-32	36-34-32	41-39-34	41-39-34	43-40-36	44-41-36	43-40-37	52	54
Outer Dimensions	H	mm	270	270	270	270	270	270	270	350	350	350	350	350	470	470
	W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250
	D	mm	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
Net Weight	kg	25	25	25	25	34	34	34	34	44	44	44	56	56	94	106
Air Flow Rate (H/M/L)	m³/h	480/420 /360	480/420 /360	780/660 /540	780/660 /540	900/780 /660	900/780 /660	960/840 /720	960/840 /720	1600/1400 /1150	1600/1400 /1150	1600/1400 /1150	2100/1750 /1450	2150/1800 /1550	3480	4650
Motor Power	W	110	110	150	150	150	150	150	190	300	300	300	430	430	1030	1280
Piping Connections		Flare-nut Connection(with Flare Nuts)												Brazing		
Liquid Line	mm	Φ6.35	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
Gas Line	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	Φ15.88	Φ19.05	Φ22.2
Condensate Drain		VP25(Outer Diameter Φ32)														
External Static Pressure	Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	120(90)	120(90)	120(90)	120(90)	120(90)	220	220
Packing Volume	m³	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	1.06

- NOTES:**
- The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 °C DB(80°F DB), 19.0 °C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 °C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20 °C DB(68°F DB)
Outdoor Air Inlet Temperature: 7 °C DB(45°F DB), 6 °C WB(43°F WB)
 - The sound pressure level is based on 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 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.
*1: AC3Φ, 380V/50Hz,
*2: AC3Φ, 380V/60Hz: AVD- 76UX7SEH; AVD-96UX7SFH

Indoor unit		Ceiling Ducted type (Low Static Pressure)															
Model Power Supply	AC1Φ 220 ~240V/50Hz	AVD-07 UXCSAL	AVD-09 UXCSAL	AVD-12 UXCSAL	AVD-14 UXCSAL	AVD-17 UXCSBL	AVD-18 UXCSBL	AVD-22 UXCSBL	AVD-24 UXCSBL	AVD-27 UXCSCL	AVD-30 UXCSCL	AVD-38 UXCSCL	AVD-48 UXCSDL	AVD-54 UXCSDL	AVD-76 UX6SEL*1	AVD-96 UX6SFL*1	
	AC1Φ 220V/60Hz	AVD-07 UX2SAL	AVD-09 UX2SAL	AVD-12 UX2SAL	AVD-14 UX2SAL	AVD-17 UX2SBL	AVD-18 UX2SBL	AVD-22 UX2SBL	AVD-24 UX2SBL	AVD-27 UX2SCL	AVD-30 UX2SCL	AVD-38 UX2SCL	AVD-48 UX2SDL	AVD-54 UX2SDL	AVD-76 UX7SEL*2	AVD-96 UX7SFL*2	
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0	
	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100	
	Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600	
Nominal Heating Capacity	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0	25.0	31.5	
	kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500	21,500	27,100	
	Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400	85,300	107,500	
Noise Level (H/M/L)	dB(A)	30-26-24	30-26-24	32-30-28	32-30-28	33-31-29	33-31-29	34-32-30	34-32-30	38-34-30	38-34-30	39-35-31	41-38-33	43-39-34	50	52	
Outer Dimensions	H	mm	270	270	270	270	270	270	270	350	350	350	350	350	470	470	
	W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250	
	D	mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
Net Weight	kg	25	25	25	25	34	34	34	34	44	44	44	56	56	94	106	
Air Flow Rate (H/M/L)	m³/h	480/420 /360	480/420 /360	780/660 /540	780/660 /540	900/780 /660	900/780 /660	960/840 /720	960/840 /720	1550/1350 /1150	1550/1350 /1150	1550/1350 /1150	2150/1800 /1500	2200/1900 /1500	3480	4320	
Motor Power	W	110	110	150	150	150	150	150	190	300	300	300	430	430	950	1120	
Piping Connections		Flare-nut Connection(with Flare Nuts)														Brazing	
Liquid Line	mm	Φ6.35	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	
Gas Line	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	Φ15.88	Φ19.05	Φ22.2	
Condensate Drain		VP25(Outer Diameter Φ32)															
External Static Pressure	Pa	30	30	30	30	30	30	30	30	60	60	60	60	60	100	100	
Packing Volume	m³	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	1.06	

- NOTES:**
- The nominal cooling capacity and heating capacity are based on following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27 °C DB(80°F DB), 19.0 °C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35 °C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation Conditions
Indoor Air Inlet Temperature: 20 °C DB(68°F DB)
Outdoor Air Inlet Temperature: 7 °C DB(45°F DB), 6 °C WB(43°F WB)
 - The sound pressure level is based on 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 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.
*1: AC3Φ, 380V/50Hz, *2: AC3Φ, 380V/60Hz

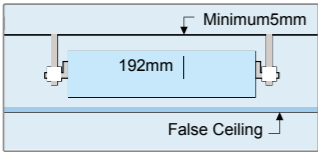
Ceiling Ducted Type

(Low-height)



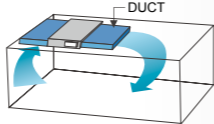
Installation Space-saving

With height of 192mm can be easily installed inside narrow residential ceiling.



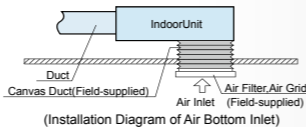
Excellent Air Flow

Cooling and heating air distributed from the unit to indoor space through ducts, which creates a comfortable environment.



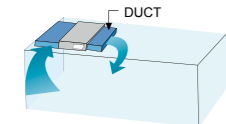
Satisfy Varied Requests on Installation

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

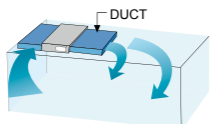


Adjustable Indoor Unit Static Pressure

Indoor unit can adjust static pressure automatically according to the house structure and installation condition, ensure that the indoor unit operates in the optimum exhaust state.



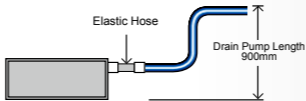
When the required duct is short, the static pressure can be set lower.



When the required duct is long, the static pressure can be set higher.

Drain Pump as Standard part

Drain-up length achieves 900mm which enables convenient drain piping and enlarges the flexibility of installation.



Indoor unit		Ceiling Ducted Type (Low-height)								
Model Power Supply	AC1Φ, 220~240V/50Hz	AVE-05UXCSAL	AVE-07UXCSAL	AVE-09UXCSAL	AVE-12UXCSAL	AVE-14UXCSAL	AVE-17UXCSBL	AVE-18UXCSBL	AVE-22UXCSBL	AVE-24UXCSBL
	AC1Φ, 220V/60Hz	AVE-05UXCSAL	AVE-07UX2SAL	AVE-09UX2SAL	AVE-12UX2SAL	AVE-14UX2SAL	AVE-17UX2SBL	AVE-18UX2SBL	AVE-22UX2SBL	AVE-24UX2SBL
Nominal Cooling Capacity	kW	1.7	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1
	kcal/h	1,500	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100
	Btu/h	5,800	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200
Nominal Heating Capacity	kW	1.9	2.8	3.3	4.2	4.9	5.8	6.5	7.5	8.5
	kcal/h	1,700	2,400	2,800	3,600	4,200	5,000	5,600	6,500	7,300
	Btu/h	6,500	9,600	11,300	14,300	16,700	19,800	22,200	25,600	29,000
Noise Level (H/M/L)	dB(A)	29-28-25	27-24-21	27-24-21	32-30-27	32-30-27	34-30-28	34-30-28	36-32-29	36-32-29
Outer Dimensions	H mm	192	192	192	192	192	192	192	192	192
	W mm	697	900+73	900+73	900+73	900+73	1170+73	1170+73	1170+73	1170+73
	D mm	447	447	447	447	447	447	447	447	447
Net Weight	kg	16	20	20	21	21	26	26	26	26
Air Flow Rate (H/M/L)	m³/h	390/372/354/336/318/300	500/440/350	500/440/350	640/590/520	640/590/520	870/750/630	870/750/630	950/820/710	950/820/710
Motor Power	W	19	50	50	70	70	100	100	110	110
Piping Connections		Flare-nut Connection(with Flare Nuts)								
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain		VP25(Outer Diameter Φ32)								
External Static Pressure	Pa	10(0-10-30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Packing Volume	m³	0.15	0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.18

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

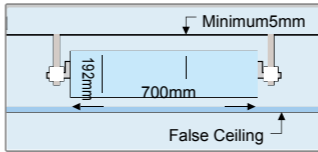
Ceiling Ducted Type

(Slim Low-height)



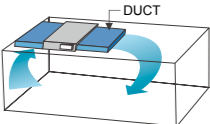
Installation Space-saving

With a width of 700mm and height of 192mm may be easily installed inside narrow residential ceiling.



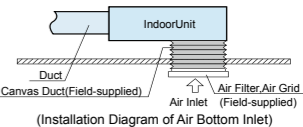
Excellent Air Flow

Cooling and heating air distributed from the unit to indoor space through ducts, which creates a comfortable environment.



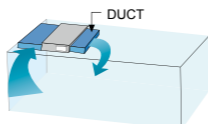
Satisfy Varied Requests on Installation

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

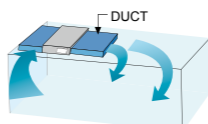


Adjustable Indoor Unit Static Pressure

Indoor unit can adjust static pressure automatically according to the house structure and installation condition, ensure that the indoor unit operates in the optimum exhaust state.



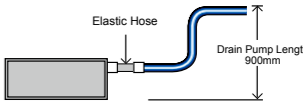
When the required duct is short, the static pressure can be set lower.



When the required duct is long, the static pressure can be set higher.

Drain Pump as Standard part

Drain-up length achieves 900mm which enables convenient drain piping and enlarges the flexibility of installation.

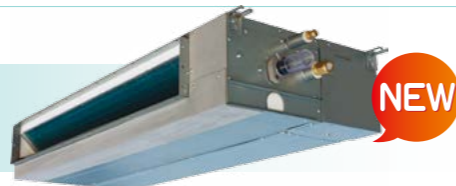


Indoor unit		Ceiling Ducted Type(Slim Low-height)			
Model Power Supply	AC1Φ, 220~240V/50Hz	AVE-07UXCSGL	AVE-09UXCSGL	AVE-12UXCSGL	AVE-14UXCSGL
	AC1Φ, 220V/60Hz	AVE-07UX2SGL	AVE-09UX2SGL	AVE-12UX2SGL	AVE-14UX2SGL
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.3
	kcal/h	1,900	2,400	3,100	3,700
	Btu/h	7,500	9,600	12,300	14,700
Nominal Heating Capacity	kW	2.8	3.3	4.2	4.9
	kcal/h	2,400	2,800	3,600	4,200
	Btu/h	9,600	11,300	14,300	16,700
Noise Level (H/M/L)	dB(A)	27-23-21	27-23-21	31-29-27	31-29-27
Outer Dimensions	H mm	192	192	192	192
	W mm	700+70	700+70	700+70	700+70
	D mm	602	602	602	602
Net Weight	kg	21	21	21	21
Air Flow Rate (H/M/L)	m³/h	450/380/335	450/380/335	590/510/470	590/510/470
Motor Power	W	50	50	60	60
Piping Connections		Flare-nut Connection(with Flare Nuts)			
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Condensate Drain		VP25(Outer Diameter Φ32)			
External Static Pressure	Pa	10(30)	10(30)	10(30)	10(30)
Packing Volume	m³	0.15	0.15	0.15	0.15

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.
With discharge duct (2.0m) and return duct(1.0m)
The above data was measured in an anechoic chamber so that 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.

Ceiling Ducted Type (DC Low-height)



Ultra-thin body design

Whit the height of 192mm and depth 447mm,effctively take advantage of narrow space to realize various kinds of air flow.

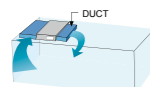


DC motor,efficient and energy-saving

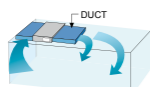
- 1.Equipped with DC motor,efficient and energy-saving. 6fan speeds is adjustable.
- 2.Extremly low operating noise;the lowest noise level is only 26dB(B)(suitable for both heating,cooling and air flow)

Adjustable Indoor Unit Static Pressure

Indoor unit can adjust static pressure automatically according to the house structure and installation condition, ensure that the indoor unit operates in the optimum exhaust state.



When the required duct is short, the static pressure can be set lower.



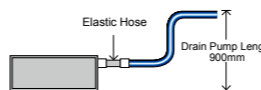
When the required duct is long, the static pressure can be set higher.

Adjustable humidity for coziness

Air inlet is equipped with the humidity sensor,thus realize the humidity adjustment and control according to the indoor humidity condition.

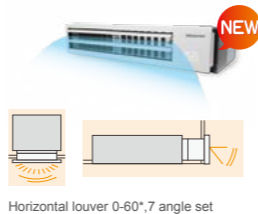
Drain Pump as Standard part

Drain-up length achieves 900mm which enables convenient drain piping and enlarges the flexibility of installation.



3D Air-flow Panel

Fashionable Appearance
Smooth panel design,easy clean
LED backlight show
Intelligent 3D air flow
3 wind setting type (nomal,3D,super long distance)
Temperature and humidity display
Wide louver working angle



Panel Model	Indoor unit	Outer Dimensions (H×W×D)	Interface Dimension (H×W×D)
HP-DB-NA	07~14	180×950×70	750×130
HP-EB-NA	17~24	180×1220×70	1020×130

Indoor unit		Ceiling Ducted Type (DC Low-height)								
Model	Power Supply	AC1Φ 220V~240V /50Hz/60Hz	AVE-07UXJSDL	AVE-09UXJSDL	AVE-12UXJSDL	AVE-14UXJSDL	AVE-17UXJSDL	AVE-18UXJSDL	AVE-22UXJSDL	AVE-24UXJSDL
Nominal Cooling Capacity	kW		2.2	2.8	3.6	4.3	5	5.6	6.3	7.1
	kcal/h		1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100
	Btu/h		7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200
Nominal Heating Capacity	kW		2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5
	kcal/h		2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300
	Btu/h		9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000
Sound Pressure Level	dB(A)		32/30/29/29/27/26		34/33.5/33/32.5/32/32		36/35/33/32/32/31		40/38/36/35/34/32	
Outer Dimensions (H×W×D)	mm		192×910×447				192×1,180×447			
Net Weight	kg		20		21		26		26	
Refrigerant			R410A(Nitrogen-charged for corrosion-resistance)							
Indoor Fan Air Flow Rate	m³/h		540/492/414/402/348/330		588/540/510/504/456/450		870/810/750/690/648/600		990/900/840/780/720/660	
Motor Power	kw		0.033		0.033		0.057		0.057	
Refrigerant Piping Connection			Flare-nut Connection(with Flare Nuts)							
Liquid Line	mm		Φ6.35				Φ6.35		Φ9.53	
Gas Line	mm		Φ12.7				Φ15.88		Φ15.88	
Condensate Drain			VP25 (Outer Diameter 32)							
External Static Pressure	Pa		10(0-10-30)				10(0-10-50)			
Packing Volume	m³		0.15				0.18			

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.
With discharge duct (2.0m) and return duct(1.0m)
The above data was measured in an anechoic chamber so that 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.

Ceiling & Floor Type

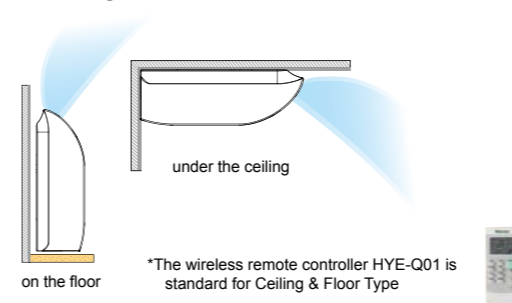


New Fashion Design Appearance and HighQuality

The fashionable design and streamline appearance make it a perfect choice for users.The integrative side panel makes the whole unit more concordant.Huge air outlet with an integrative large louver realizes high air volume and low noise.

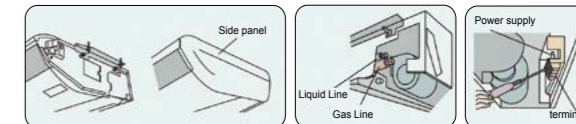
Flexible Installation

The unit can be installed either stand on the floor or hang under the ceiling.



Convenient Installation and Maintenance

Advanced structure design that make the unit installation, pipe connection, even wiring work into simple.



Intelligent 3D Air Flow

With horizontal and vertical air louver, the air flow can be adjusted freely. Fullfill the optimum air organization, more comfortable.



Indoor unit		Ceiling & Floor Type								
Model Power Supply	AC1Φ 220V~240V /50Hz	AVV-17URSCA	AVV-18URSCA	AVV-22URSCA	AVV-24URSCA	AVV-27URSCB	AVV-30URSCB	AVV-38URSCB	AVV-48URSCC	
	AC1Φ 220V/60Hz	AVV-17UR2SA	AVV-18UR2SA	AVV-22UR2SA	AVV-24UR2SA	AVV-27UR2SA	AVV-30UR2SB	AVV-38UR2SB	AVV-48UR2SC	
Nominal Cooling Capacity	kW	5	5.6	6.3	7.1	8.4	9	11.2	14.2	
	Btu/h	17,100	19,107	21,500	24,225	28,661	30,708	38,214	48,450	
Nominal Heating Capacity	kW	5.6	6.5	7.5	8.5	9.6	10	13	16.3	
	Btu/h	19,100	22,178	25,600	29,002	32,755	34,120	44,356	55,616	
Motor Power	W	40	40	70	70	70	80	130	160	
Air Flow Rate (H/M/L)	m³/h	780/660/520	780/660/540	966/840/678	966/840/678	1,110/912/732	1,176/978/798	1,488/1230/978	1,980/1,680/1,380	
Noise Level (Ceiling)	dB(A)	39/35/30	39/34/29	45/41/37	44/41/36	42/38/32	44/39/35	50/44/39	50/46/41	
Noise Level (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	
Outer Dimensions	mm	990x680x230	990x680x230	990x680x230	990x680x230	1,285x680x230	1,285×680×230	1,285×680×230	1,580x680x230	
Net Weight	kg	31	31	32	32	39	40	41	47	
Gross Weight	kg	38	38	39	39	46	47	48	56	
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)								
Piping Connections		Flare-nut Connection(with Flare Nuts)								
Liquid Line	mm	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	
Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	
Condensate Drain		VP25(Outer Diameter Φ32)								
Packing Dimensions	mm	1,110x830x340					1,400x830x340			1,690x830x340
Speed-up Setting HH1	m³/h	852	852	1,068	1,068	1,188	1,272	1,620	2,160	
Speed-up Setting HH2	m³/h	960	960	1,200	1,200	1,338	1,410	1,752	2,244	

NOTES:

- 1.The nominal cooling capacity and heating capacity are based on following condations:
Cooling Operation Condations
Indoor Air Inlet Temperature: 27℃ DB (80°F DB) 19℃ WB (66.2°F DB)
Outdoor Air Inlet Temperature: 35℃ DB (95°F DB)
Piping Length: 5.0Meter Piping Lift: 0Meter
Heating Operation Condations
Indoor Air Inlet Temperature: 20℃ DB (68°F DB)
Outdoor Air Inlet Temperature:7℃ DB (45°F DB) 6℃ DB (43°F DB)
2. The sound pressure level is based on following condations:
1.0m beneath the unit,1.0m from Discharge Grille.
The above data was measured in an anechoic chamber so that 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.

Wall Mounted Type



Elegant Smooth Panel Design with Hidden LED Display

The quality of “elegance” is additionally provided to meet contemporary needs. Features a simple, smooth form that harmonizes with any interior style. Smooth panel design can be cleaned easily.

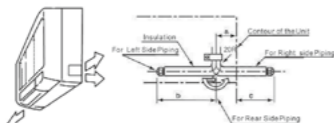


Anti-mold Filter

Anti-mold filter is equipped as standard accessory.

Free Installation

Water drain pipe can be set either left or right sides of the unit
Connection pipe can be set in left, right or back side of the unit



Compact and Light Weight, Allowing Easy Installation

Designed with ease of installation in mind, this new model adopts a slim design and uses a high proportion of lightweight resin parts. Unit weight has been vastly reduced.

Sleep Mode Bring You Comfortable Temperature for Good Sleep

Sleep mode can be kept for 8 hours. The setting temperature will be adjusted automatically for your comfortable.

Quiet Operation for Super Low Sound Level

One touch quiet operation can set system work in super low speed and you will get very low noise level to 28 dB(A)



*The wireless remote controller HYE-L01 is standard for New Wall Mounted Type

Indoor unit		Wall Mounted Type							
Model Power Supply	AC1Φ220V~240V/50Hz	AVS-07URCSABA	AVS-09URCSABA	AVS-12URCSABA	AVS-14URCSABA	AVS-17URCSABA	AVS-18URCSBBA	AVS-22URCSBBA	AVS-24URCSBBA
	AC1Φ220V/60Hz	AVS-07UR2SABA	AVS-09UR2SABA	AVS-12UR2SABA	AVS-14UR2SABA	AVS-17UR2SABA	AVS-18UR2SBBA	AVS-22UR2SBBA	AVS-24UR2SBBA
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	kcal/h	1,900	2,400	3,100	3,450	4,300	4,816	5,418	6,106
	Btu/h	7,500	9,500	12,300	13,600	17,000	19,100	21,500	24,200
Nominal Heating Capacity	kW	2.5	3.3	4.0	4.5	5.6	6.3	7.1	8
	kcal/h	2,150	2,800	3,450	3,900	4,800	5,418	6,106	6,880
	Btu/h	8,500	11,100	13,600	15,300	19,100	21,500	24,200	27,300
Indoor Fan Air Flow Rate (High/Medium/Low/Mute)	m³/h	660/590/520/460	660/590/520/460	830/660/520/460	830/660/520/460	900/750/590/460	893/782/671/582	1,006/893/716/621	1,122/984/804/649
Sound Pressure Level (High/Medium/Low/Mute)	dB(A)	39/34/32/28	39/34/32/28	43/39/32/28	43/39/32/28	45/40/34/29	41/37/34/30	44/41/36/31	46/43/38/33
Net Weight	kg	13.5						16.0	
Gross Weight	kg	17.0						20.0	
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)							
Motor Power	W	50	50	60	60	65	62	72	82
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)							
Liquid Line	mm	Φ6.35						Φ9.53	
Gas Line	mm	Φ12.7						Φ15.88	
Condensate Drain		VP16							
Outer Dimensions (H×W×D)	mm	315×960×230						315×1,120×230	
Packing Outer Dimensions(H×W×D)	mm	445×1,080×355						438/1,238/349	
Approximate Packing Measuremen	m³	0.17						0.19	
Wireless Remote Controller/Receiver		HYE-L01+Receiver							
Wired Remote Controller		Option							
Fan motor		PG Fan motor							
Drain Pump		NO							

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:
1.0m beneath the unit and 1.0m from inlet grille.
Voltage of the power source for the indoor fan motor is 220V.
In case of the power source of 240V, the sound pressure level increases by about 1~2dB.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Floor Concealed Type



Compact design fitting into a tiny space

Special emphasis placed on interior design compatibility as well as space saving design,allowing it to fit perfectly into the space below a bay window. So compact that it fits into even a tiny space.

Outdoor Unit Specifications

Indoor unit	Floor Concealed Type				
Model Power Supply	AC1Φ, 220~240V/50Hz	AVH-09UXCSAA	AVH-14UXCSAA	AVH-18UXCSBA	AVH-24UXCSBA
	AC1Φ, 220V/60Hz	AVH-09UX2SAA	AVH-14UX2SAA	AVH-18UX2SBA	AVH-24UX2SBA
Nominal Cooling Capacity	kW	2.8	4.3	5.6	7.1
	kcal/h	2,400	3,700	4,800	6,100
	Btu/h	9,600	14,700	19,100	24,200
Nominal Heating Capacity	kW	3.3	4.9	6.5	8.5
	kcal/h	2,800	4,200	5,600	7,300
	Btu/h	11,300	16,700	22,200	29,000
Noise Level (H/M/L)	dB(A)	34-31-27	40-36-34	41-36-32	44-40-36
Cabinet Color		Silky White			
Outer Dimensions	H-mm	620	620	620	620
	W-mm	948+139	948+139	1218+139	1218+139
	D-mm	202	202	202	202
Net Weight	kg	18	22	26	27
Air Flow Rate (H/M/L)	m³/h	510/450/380	620/540/480	890/740/630	980/830/710
Motor Power	W	50	80	90	120
Piping Connections		Flare-nut Connection(with Flare Nuts)			
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.53
Gas Line	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate Drain		VP25	VP25	VP25	VP25
Packing Volume	m³	0.19	0.19	0.23	0.23

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 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
(For G/M/R Series)

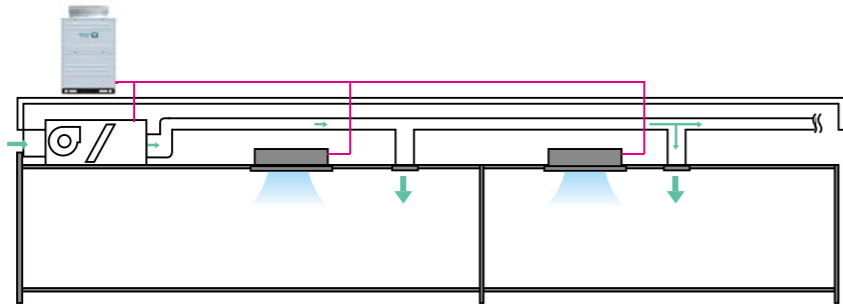


Create Comfortable and Healthy Indoor Environment

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

Higher External Static Pressure

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



Indoor unit		All Fresh Air Indoor Unit			
Model	AC1Φ, 220~240V/50Hz	AVA-30 UXCSCH-70	AVA-48 UXCSQH-108	AVA-76 UXCSRH-168	AVA-96 UXCSRH-210
Power Supply	AC1Φ 220 V/60Hz			AVA-76 UX2SRH-168	AVA-96 UX2SRH-210
Combined Outdoor Unit Model		Hi-FLEXi G/M/R Series			
Nominal Cooling Capacity	kW	9.0	14 .0	22.4	28.0
	Btu/h	30,700	47,800	76,500	95,600
Nominal Heating Capacity	kW	8.6	13.7	21.9	24.5
	Btu/h	29,400	46,800	74,700	83,600
Motor Power	W	150	330	490	510
Outer Dimensions	H	mm	370	370	486
	W	mm	920	1,320	1,270
	D	mm	800	800	1,069
Noise Level	dB(A)	32	43	45	46
Net Weight	Kg	46	60	97	97
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)			
Air Flow Rate	m³/h	660	1,080	1,680	2,100
External Static Pressure	Pa	60 (120)	200	220	220
Air Inlet Size	mm	833×306	1233×306	1,100×415	1,100×415
Air Outlet Size	mm	803×220	1203×220	1,106×338	1,106×338
Drain Pipe Size		VP25, Outer Diameter: Φ32mm			
Refrigerant Liquid Line	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Refrigerant Gas Line	mm	Φ15.88	Φ15.88	Φ19.05	Φ22.2
Temperature Range of Fresh Air Drawn		Cooling: 20℃ ~43℃ , Heating: -7℃ ~15℃			

All Fresh Air Indoor Unit

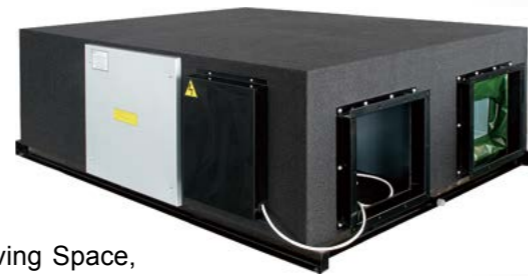


Indoor unit		All Fresh Air Indoor Unit			
Model	AC3Φ, 380~415V/50Hz	AVA-114 UX6SRH-300	AVA-154 UX6SSH-400	AVA-190 UX6STH-500	AVA-190 UX6STH-600
Power Supply	AC3Φ 380V/60Hz	AVA-114 UX7SRH-300	AVA-154 UX7SSH-400	AVA-190 UX7STH-500	AVA-190 UX7ISTH-600
Combined Outdoor Unit Model		Hi-FLEXi G/M/R Series			
Cooling Capacity	kW	33.5	45.0	56.0	56.0
	Btu/h	114,300	153,600	191,100	191,100
Heating Capacity	kW	26.8	36.0	44.8	44.8
	Btu/h	91,500	122,900	152,900	152,900
Motor Power	W	740	1120	1330	1620
Outer Dimensions	H	mm	486	635	735
	W	mm	1,270	1,950	1,950
	D	mm	1,069	805	805
Sound Pressurd Level	dB(A)	56	61	64	66
Net Weight	Kg	97	196	222	222
Refrigerant		R410A			
Indoor Fan Air Flow Rate	m³/h	3,000	4,000	5,000	6,000
External Static Pressure	Pa	220	300	320	300
Air Inlet Size	mm	1,100×415	1,522×522	1,522×622	1,522×622
Air Outlet Size	mm	1,106×338	850×272	850×272	850×272
Drain Pipe Size		VP25,Outer Diameter: Φ32mm		RC1(Internal Screw)	
Refrigerant Liquid Line Size	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Refrigerant Gas Line Size	mm	Φ25.4	Φ25.4	Φ28.6	Φ28.6
Temperature Range of Fresh Air Drawn		Cooling: 20℃ ~43℃ , Heating: -7℃ ~15℃			

NOTES:

- 1.The nominal cooling capacity and heating capacity are based on following conditions
Cooling operation conditions: 33℃ DB, 28℃ WB, piping length: 7.5m, piping lift: 0m
Heating operation conditions: 0℃ DB, -9℃ WB, piping length: 7.5m, piping lift: 0m
(Heating capacity is tested when defrosting is not available)
- 2.The sound pressure level is based on following conditions: 1.5 Meter beneath the unit.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the filed.
- 3.An air filter with duct collection efficiency more than 50% needs to be attached to the duct system of the suction side at site.
- 4.When the resistance of the filed-supplied duct is small, it may cause abnormal stop, malfunction, spraying water, etc.Due to excessive air flow. And the duct, which is to be connected to this unit, shall be insulation for dew protection.
- 5.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.
- 6.This unit shall be connected to Hi-FLEXi G, M and R series outdoor units. 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).
- 7.When Hi-Flexi outdoor unit connected to only with all fresh air indoor unit, the configuration rate is 100% (Recommended).
- 8.Under cooling mode,when outdoor temperature is lower than 20℃ ,the system will automatically shift to ventilation operation; Under heating mode, when outdoor temperature is higher than 15℃ the system will automatically shift to ventilation operation; In case inlet temperature is below -7℃ all fresh air unit will stop.

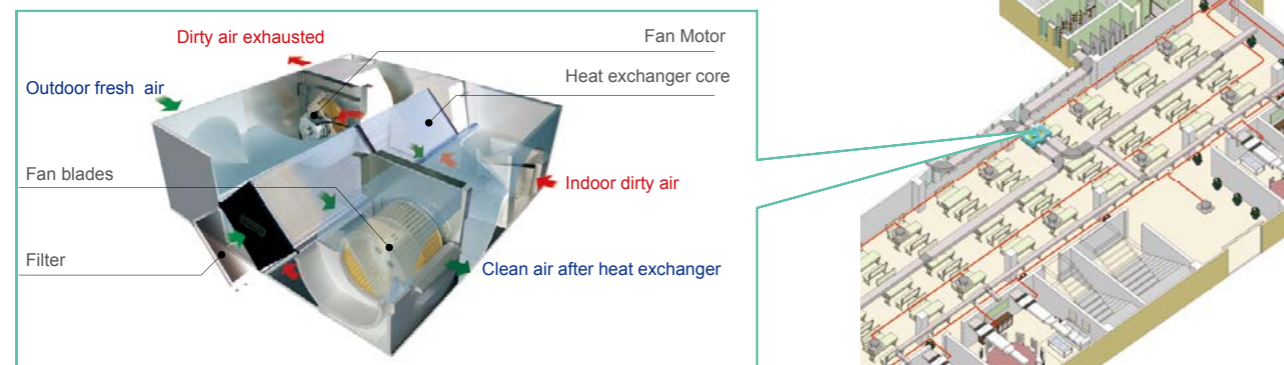
Heat Recovery Ventilator



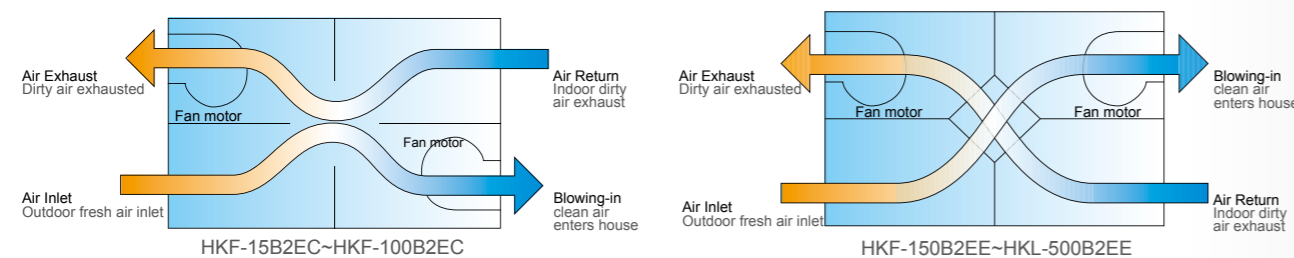
Build a More Comfortable, Healthy and Energy-saving Living Space, Hisense High-performance Heat Recovery Ventilator

Hisense heat recovery ventilator adopts efficient convective transfer material to effectively recycle the heat losses due to ventilation, reduces the fresh air load, achieves the purpose of energy saving and lower running cost of air conditioning unit, fresh air is supplied to indoors continuously which can make your room more comfortable and healthy.

Basic Structure and Operation Principle

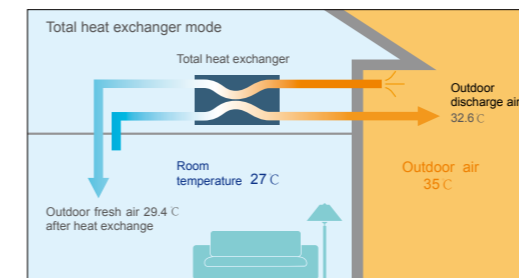


Airflow System



Energy Saving Analysis

Summer Energy Saving Analysis



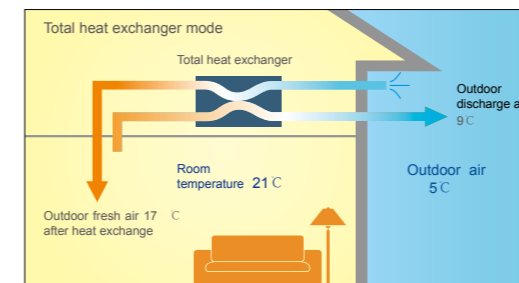
In summer operation, when the cold energy of 27°C air discharged from indoor pass through the heat exchanger, the 35°C outdoor hot air is pre-cooled to 29.4°C fresh air and supplied to indoors, as shown above, the air conditioner only needs to cool the air by 2.4°C to maintain a comfortable room temperature 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.

VS ordinary ventilation fan		
Air inlet		
	Total heat exchanger	Traditional ventilation fan
Dry bulb temperature °C	29.4	35
Wet bulb temperature °C	23.3	28
Moisture content g/kg	15.7	21.1
Relative humidity %	60.1	59.1
Enthalpy value kJ/kg(DA)	69.8	89.4
Recycling coldkW	1.57	0
Heat loadkW	2.8	2.8

VS ordinary ventilation fan		
Outdoor air		
Dry bulb temperature °C	35	
Wet bulb temperature °C	28	
Relative humidity %	59.1	
Enthalpy value kJ/kg(DA)	89.4	

VS ordinary ventilation fan		
Indoor air		
Dry bulb temperature °C	27	
Wet bulb temperature °C	19.5	
Relative humidity %	49.8	
Enthalpy value kJ/kg(DA)	55.5	

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 5°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.

VS ordinary ventilation fan		
Air inlet		
	Total heat exchanger	Traditional ventilation fan
Dry bulb temperature °C	17	5
Wet bulb temperature °C	9.4	2
Moisture content g/kg	4.2	6
Relative humidity %	35.3	58.5
Enthalpy value kJ/kg(DA)	27.8	12.9
Recycling coldkW	1.3	0
Heat loadkW	2	2

VS ordinary ventilation fan		
Outdoor air		
Dry bulb temperature °C	5	
Wet bulb temperature °C	2	
Relative humidity %	58.5	
Enthalpy value kJ/kg(DA)	12.9	

VS ordinary ventilation fan		
Indoor air		
Dry bulb temperature °C	21	
Wet bulb temperature °C	13	
Relative humidity %	39.2	
Enthalpy value kJ/kg(DA)	36.5	

Very Low Noise

Through a low-noise fan motor, advanced internal silence insulation device and optimization of air passage, the units have low noise. The minimum operating noise is only 28dB (A), which will not affect the user's sleep and rest at all.



With Flexible Control, It Has Access to Centralized Control of Hisense Air Conditioning System

Controller

LCD Wired Remote Controller - Standard

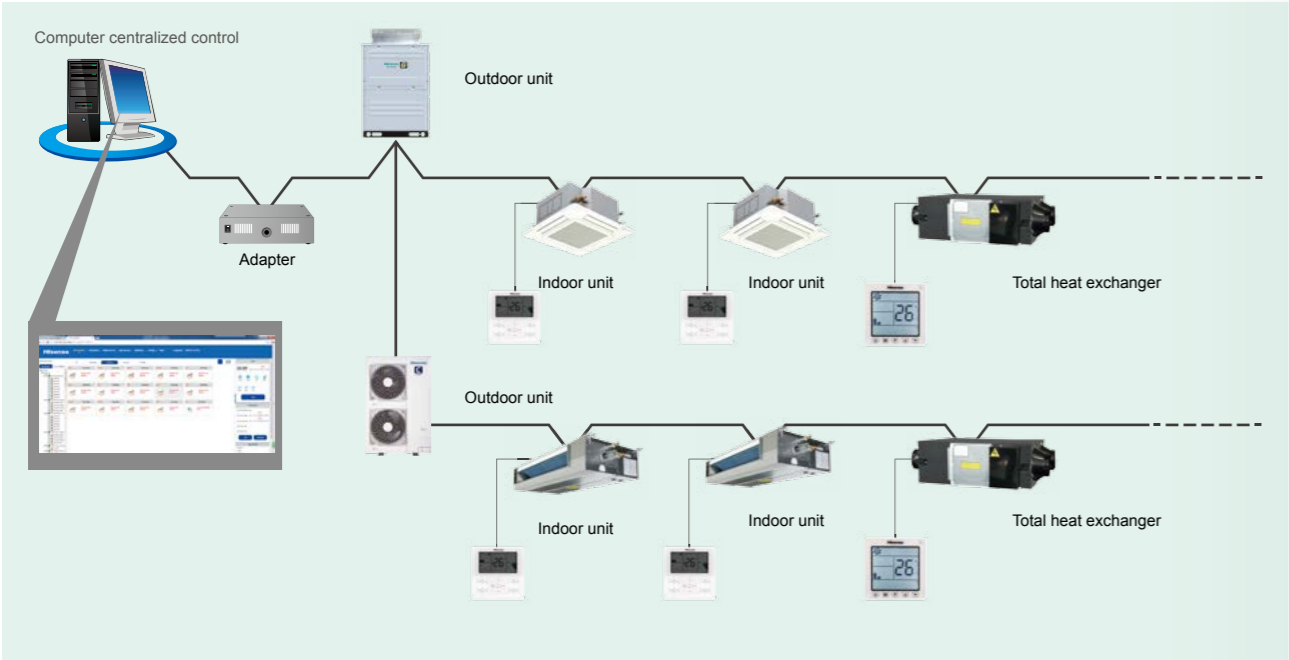
- Large LCD screen interface, elegant appearance
- Can display room temperature, fan speed and so on
- Air volume setting function, the user can choose high, medium and low fan speed
- Product dimension:86*86mm



HYXE-G01H

Centralized Control System

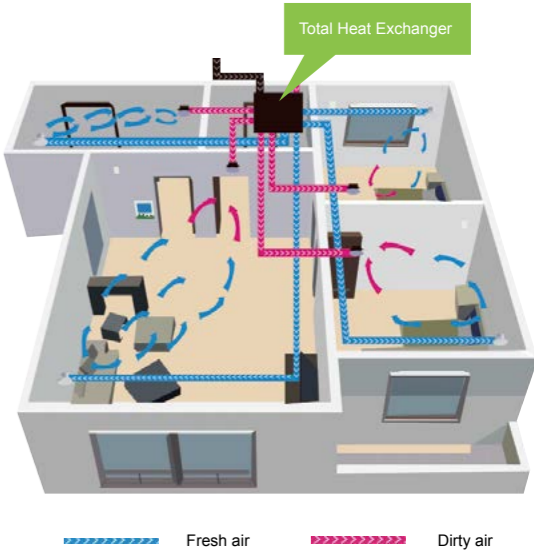
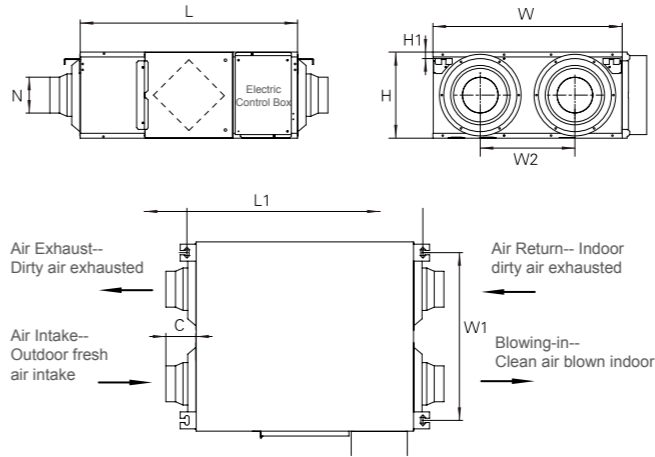
Hisense centralized control type total heat exchanger products can be connected to the centralized control system of Hisense air conditioning*, achieve the linkage with air conditioning system and centralized control, so the operation is more convenient and more intelligent!



HKF-15B2EC



Product Dimensions



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

Technical Parameters

Model	Air Volume m³/h			Enthalpy Efficiency (Summer) η ₁			Enthalpy Efficiency (Winter) η ₂			External Static Pressure Pa			Power Supply	Input Current A			Input Power KW			Noise Level dB(A)			Weight kg
	High	Middle	Low	High	Middle	Low	High	Middle	Low	High	Middle	Low		High	Middle	Low	High	Middle	Low	High	Middle	Low	
HKF-15B2EC*	150	150	110	58	58	60	65	65	69	85	70	65	220-240V/50Hz	0.38	0.36	0.31	2×0.041	2×0.038	2×0.029	30	29	28	25

*: 220V/60Hz HKF-15B2E2

Product Feature

Compact Machine, Convenient Installation.

The thickness of machine is not more than 270mm that 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 and ceiling, it is more convenient for construction.

Adjustable Air Volume, Quiet Operation.

The air volume can be adjusted at a range of high, medium, or low level, the lowest noise in low level is only 28 dB(A) (HKF-15B1(2)EC in low level), which reaches the lowest level in the industry.

270mm

600mm

28 dB(A)

Low Level:
Gentle and fine airflow, tenderly caring baby-like sleep.

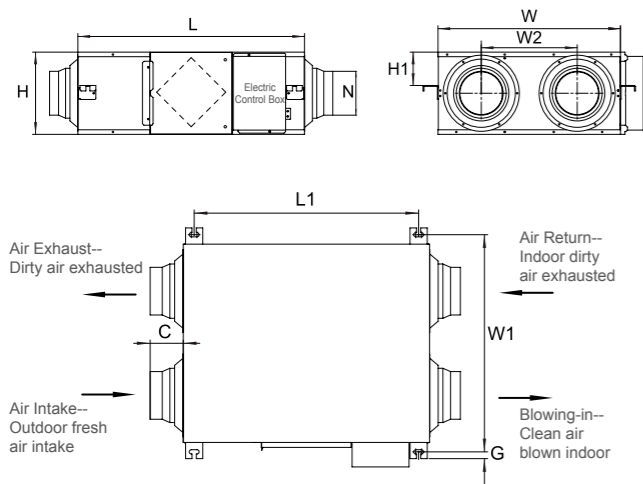
Medium Level:
Nature warm and refreshing enjoyed during breathing

High level:
Experience the natural wind, enjoy aerobic exercise

HKF-25B2EC~HKF-100B2EC



Product Dimensions



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

Technical Parameters

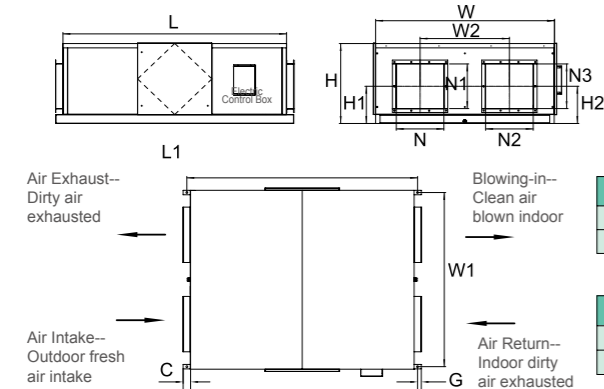
Model	Air Volume m³/h			Enthalpy Efficiency (Summer)η _i			Enthalpy Efficiency (Winter)η _i			External Static PressurePa			Power Supply	Input Current A			Input PowerkW			Noise Level dB(A)			Weight kg
	High	Middle	Low	High	Middle	Low	High	Middle	Low	High	Middle	Low		High	Middle	Low	High	Middle	Low	High	Middle	Low	
HKF-25B2EC*	250	250	190	57	57	59	63	63	68	85	65	60	220~240V/50Hz	0.66	0.56	0.52	2×0.069	2×0.055	2×0.049	32	31	28	30
HKF-35B2EC*	350	350	270	55	55	57	62	62	65	100	75	65		0.76	0.75	0.71	2×0.083	2×0.079	2×0.075	34	33	31	35
HKF-50B2EC*	500	500	400	56	56	58	63	63	65	130	110	100		1.82	1.71	1.52	2×0.189	2×0.157	2×0.124	39	38	36	40
HKF-65B2EC*	650	650	550	57	57	59	63	63	68	130	100	100		1.75	1.62	1.51	2×0.193	2×0.178	2×0.164	40	38	35	62
HKF-80B2EC*	800	800	650	58	58	59	66	66	68	130	100	90		1.98	1.88	1.75	2×0.211	2×0.196	2×0.18	42	40	37	72
HKF-100B2EC*	1000	1000	700	56	56	58	63	63	66	165	120	60		4.68	4.18	3.47	2×0.510	2×0.450	2×0.363	44	42	38	79

*: 220V/60Hz HKF-25B2EC~HKF-100B2EC

HKF-150B2EE~HKF-200B2EE



Product Dimensions



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

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

Technical Parameters

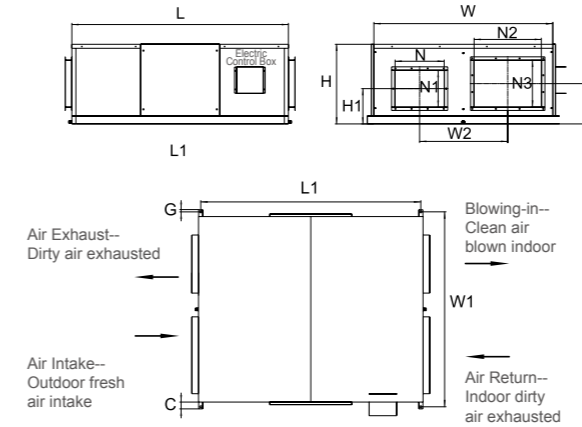
Model	Air Volume m³/h	Enthalpy Efficiency (Summer)η _i	Enthalpy Efficiency (Winter)η _i	External Static PressurePa	Power Supply	Input Current A	Input Power kW	Noise Level dB(A)	Weight kg
HKF-150B2EE*	1500	55	63	180	380~415V/50Hz	2.78	2×0.41	48	151
HKF-200B2EE*	2000	54	62	160		2.89	2×0.52	49	172

*: AC3Φ220V/60Hz HKF-150B2EE~HKF-200B2EE
AC3Φ380V/60Hz HKF-150B2EF HKF-200B2EF

HKF-250B2EE~HKF-300B2EE



Product Dimensions



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

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

Technical Parameters

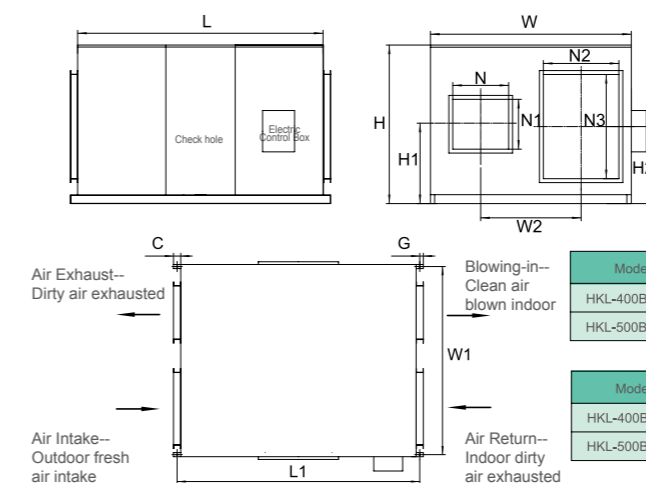
Model	Air Volume m³/h	Enthalpy Efficiency (Summer)η _i	Enthalpy Efficiency (Winter)η _i	External Static PressurePa	Power Supply	Input Current A	Input PowerkW	Noise Level dB(A)	Weight kg
HKF-250B2EE*	2500	54	62	180	380~415V/50Hz	3.86	2×0.72	53	185
HKF-300B2EE*	3000	55	63	200		5.12	2×1.16	56	222

*: AC3Φ220V/60Hz HKF-250B2EE~HKF-300B2EE
AC3Φ380V/60Hz HKF-250B2EF HKF-300B2EF

HKL-400B2EE~HKL-500B2EE



Product Dimensions



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

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

Technical Parameters

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

*: AC3Φ220V/60Hz HKL-400B2EE~HKL-500B2EE
AC3Φ380V/60Hz HKL-400B2EF HKL-500B2EF

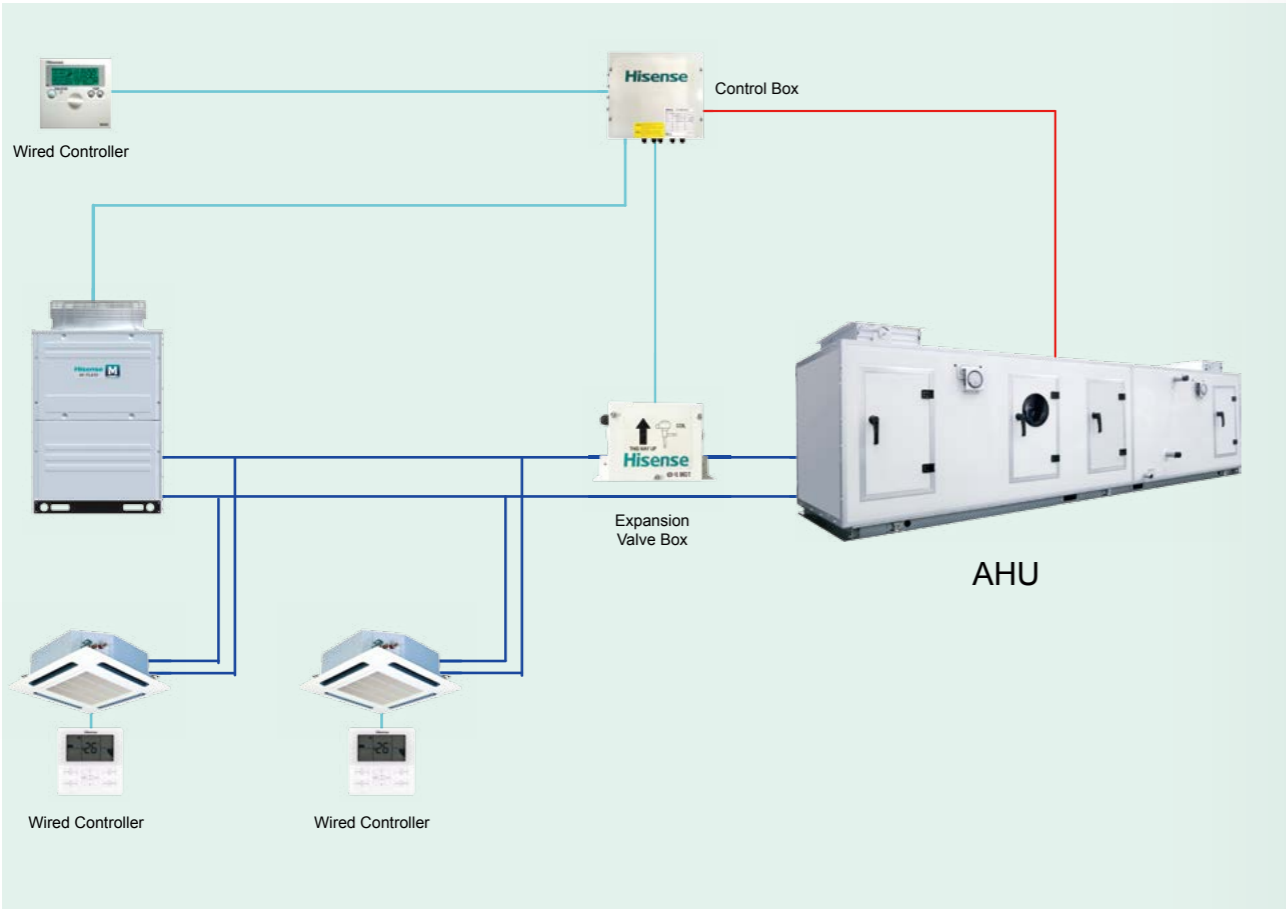
AHU Connection KIT

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 Function

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

- Refrigerant pipe
- Sensor signal
- Communication wire



Multi combination with AHU and standard indoor unit, only for HZX-2.0 ~ 6.0AEC (2-6HP).
Single combination with only AHU, for HZX-10.0AEC (8-10HP) and HZX-20.0AEC(12-20HP).
AHU-KIT multi connection for one big AHU (22-54HP).

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-2.0AEC	HZX-4.0AEC	HZX-6.0AEC	HZX-10.0AEC		HZX-20.0AEC				
Model Power Supply			220~240V/50Hz, 220~240V/60Hz									
Nominal Capacity of AHU		HP	2	4	6	8	10	12	14	16	18	20
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
		KW	5.0	9.0	14.0	20.0	25.0	30.0	35.0	43.0	48.0	52.0
		KW	5.6	11.2	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0
	Heating	KW	4.5	8.0	12.5	17.9	22.4	31.5	37.5	45.0	50.0	56.0
		KW	5.6	10.0	16.0	22.4	28.0	33.5	40.0	47.5	53.0	60.0
		KW	7.1	12.5	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63.0
Heat Exchanger Volume	Min	dm³	0.57	1.03	1.92	2.92	3.89	4.76	5.85	6.79	7.57	8.47
	Max	dm³	1.16	2.37	2.92	3.89	4.76	5.91	6.89	8	8.92	9.97
Equivalent Indoor Unit Capacity		HP	2	4	6	8	10	12	14	16	18	20
Control Box Model			HZX-AEC/1									
Expansion Valve Box Model			HZX-2.0 AEC/2	HZX-4.0 AEC/2	HZX-6.0 AEC/2	HZX-10.0 AEC/2		HZX-20.0 AEC/2				

*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

Control System

- Wired Controller
- Wireless Controller
- Centralized Controller
- Receiver Kit for Wireless Control-Optional
- Building Management System



Wired Controller

HYXE-J01H

Features:

4 inch large LCD screen with a resolution of 320×185.

Functions are displayed in iconic form, more intuitive.

Operation navigation, more convenient.

It can be used in main-auxiliary control mode or in concert with wireless receiver.

Various displaying settings: backlit control, contrast ratio setting, backlit displaying time setting, keytone setting, indicator light brightness setting, clock setting, language switch (Between **Chinese, English, Spanish, Italian, German.**)

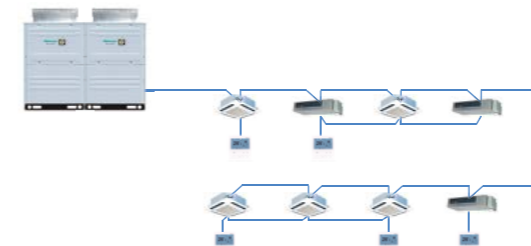
Max.16 indoor units can be connected.



Main Functions

- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ Fan speed/Swing Louver
- ◆ Temperature Setting
- ◆ Timer
- ◆ Holiday Setting
- ◆ Weekly Timer
- ◆ Check
- ◆ Air Filter Cleaning Reminding
- ◆ Error Code Display
- ◆ Error History Display
- ◆ Mode Lock
- ◆ Address Setting

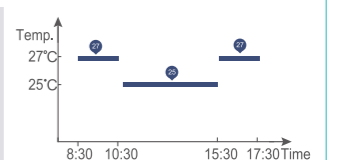
Various Control Solutions



Weekly Timer Setting

Five different schedule timers can be set for each day of the week.

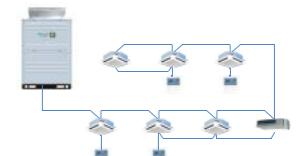
Daily Schedule Setting (Tue)				Fri 09:36
1	8:30 ~	10:30	27°C	
2	10:30 ~	15:30	25°C	
3	15:30 ~	17:30	27°C	
4	--:-- ~	--:--	--°C	
5	--:-- ~	--:--	--°C	
Select Adjust OK Back				



Indoor Unit Address Change

In the process of installation work, indoor unit address can be changed through wired controller HYXE-J01H.

Indoor Adds Change			
01-01	02-01	03-01	04-01
01-02	02-02	03-02	04-02
01-03	02-03	03-03	04-03
01-04	02-04	03-04	04-04
Select OK Back			



HYXE-A01H

Main Functions

- ◆ Max.16 indoor units can be connected.
- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ Fan Speed/Swing Louver
- ◆ Timer
- ◆ Test Run
- ◆ Air Filter Cleaning Reminder
- ◆ Check
- ◆ Temperature Setting
- ◆ Error Code Display



HYXE-F01H

Feature:

Fashion appearance with crystal panel and keys
Large LCD backlit screen
Max.16 indoor units can be connected.

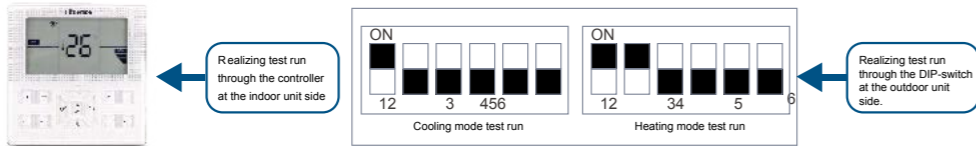


Main Functions

- Cooling/Heating/Dry/Fan/Auto
- Fan Speed/Swing Louver
- Temperature Setting
- Timer
- One Touch Test Run
- Air Filter Cleaning Reminder
- Error Code Display
- Check

One-touch Test Run

The one-touch test run can be operated at the outdoor unit side, and it can also be operated at the indoor unit side, which makes it much easier for the commissioning.



HYXE-G01H

Features:

Compact structure with a size of 86×86mm.
Large LCD backlit screen, simple appearance.
Built-in wireless receiver under the panel, two kinds of control mode for selection.



Main Functions

- Cooling/Heating/Dry/Fan/Auto
- Fan Speed/Swing Louver
- Temperature Setting
- Timer
- Built-in Wireless Receiver
- Air Filter Cleaning Reminder
- Error Code Display
- Check

Compact structure design



Wired Controller

HYXE-M01H

Features:

Streamline appearance design, white highlight shell
Large LCD screen, humanized operation interface
Touch key control, easy and convenient
White backlight; operation indicator light
Infrared remote control is acceptable, realizing two control method: wired control and remote control



Main Functions

- 86×86mm smart size
- Inserting
- Cooling/Heating/Dry/Fan/Auto
- Backlight
- Multiple speed/Swing louver
- Temperature setting
- 72-hour Timer
- Control Max.6 indoor units
- Air filter cleaning reminding
- Check
- Error Code Display
- Dehumidification

Wireless Controller

HYE-W01

Features:

Different colors of common used keys
White backlight, convenient for night operation
Multi-functional, intelligent and humanized



Main Functions

- Cooling/Heating/Dry/Fan/Auto
- Temperature setting
- 6 Fan speed/Swing louver
- Dehumidification
- 24-hour
- Quiet mode setting
- Sleep mode setting

HYE-L01 / HYE-Q01

Feature:

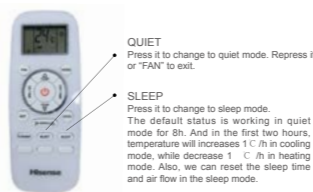
Latest wireless controller with fashionable look.
Newly extended sleep mode and quiet mode.



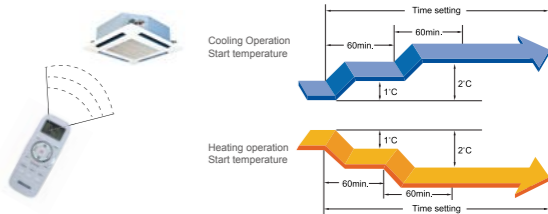
Main Functions

- Cooling/Heating/Dry/Fan/Auto
- One Touch Test Run
- Sleep Mode Setting (HYE-L01)
- Fan Speed/Swing Louver
- Air Filter Cleaning Reminder
- Quiet Mode Setting (HYE-L01)
- Temperature Setting
- Timer
- Error Code Display
- Check

Newly Extended Sleep Mode and Quiet Mode



Wide Control Angle



Receiver Kit for Wireless Control - Optional



Centralized Controller

Centralized ON/OFF Controller: HYJ-J01H

Features:

- Large size touch-key control design.
- Slim design with a thickness of 13mm
- It can control up to 16 wired controller groups, realizing centralized ON/OFF control.
- Max.128 indoor units can be connected.

Main Functions

- ◆ Group Control(ON/OFF)
- ◆ Indoor Units Auto Login in
- ◆ Indoor Unit Power OFF Reminder
- ◆ Error Reminder

Compact Structure Design



Centralized ON/OFF Control

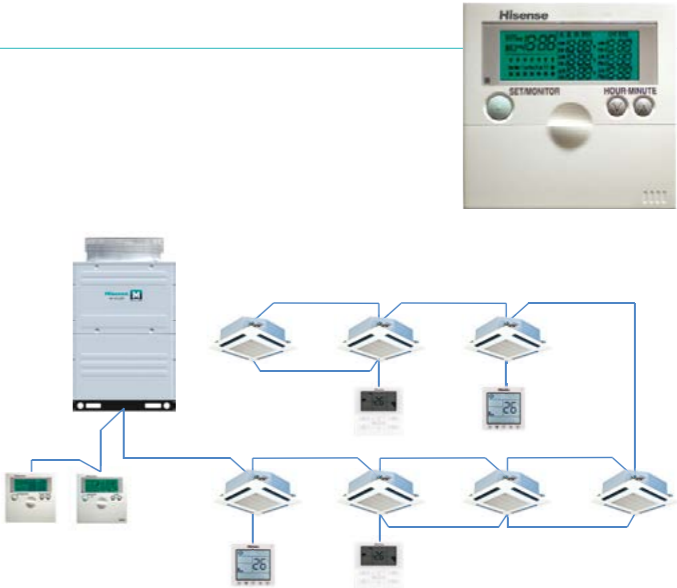


Centralized Controller

7-Day Timer: HYDE-E01H

Main Functions

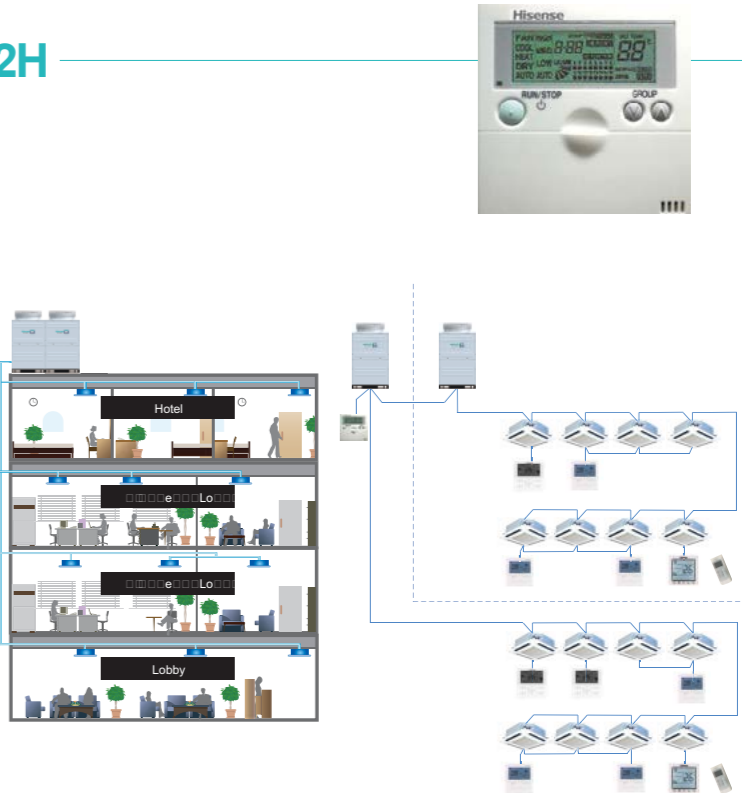
- ◆ Max.160 indoor units can be connected.
- ◆ 3 Periods Setting on Weekday
- ◆ Holiday Setting
- ◆ Two Modes of Timetable
- ◆ Timer



Central Controller: HYJE-D02H

Main Functions

- ◆ Max.160 indoor units can be connected.
- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ Operation Monitoring
- ◆ Temperature Setting
- ◆ Indoor Unit Selection
- ◆ Fan Speed/Swing Louver
- ◆ Controller Disable
- ◆ Error Code Display
- ◆ Check

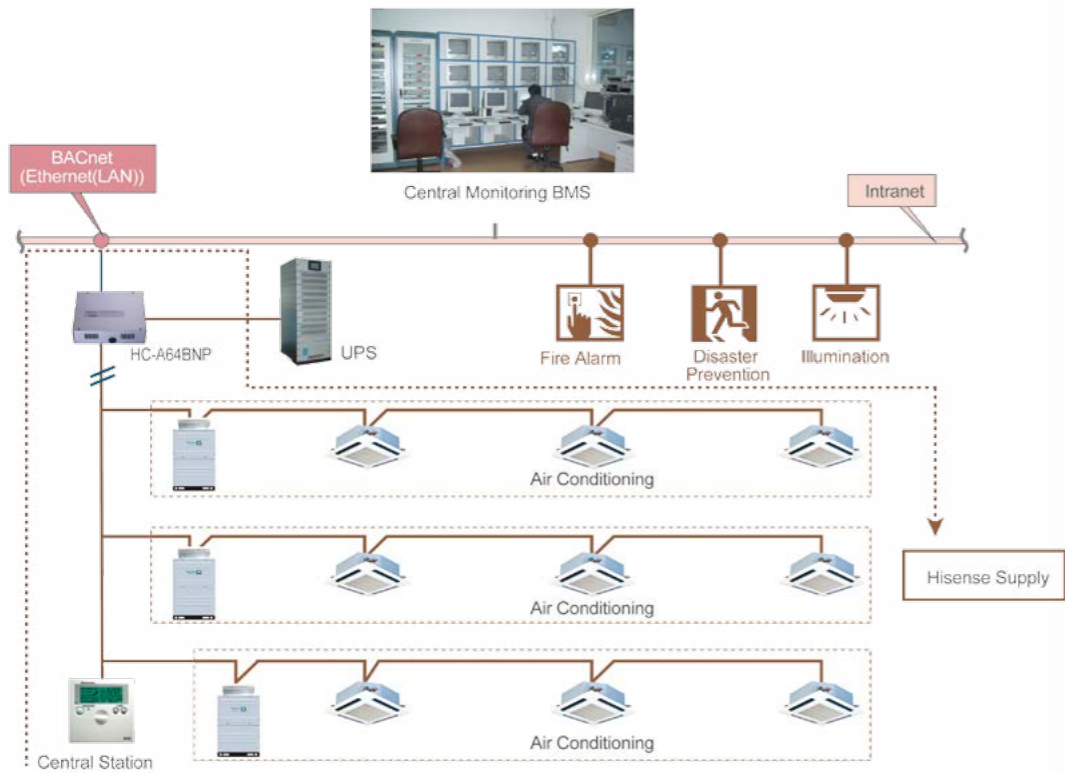


Building Management System

Compatible to multiple communication protocol of BACnet, MODBUS etc. Connectible to BMS or Smart Home System via HC-A64BNP or HCPC-H2M1C all of which can connect to Max. 64 indoor units.

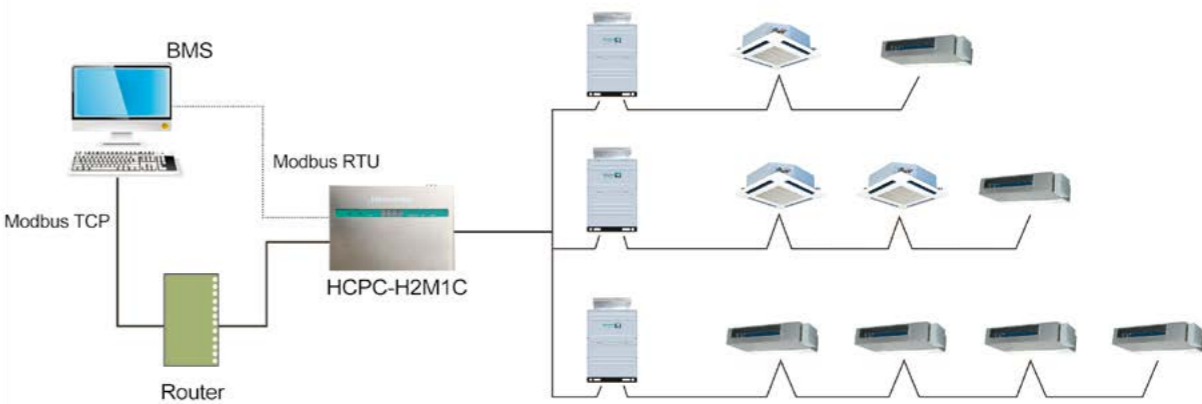
Real-time operation status monitoring for inquiry
Operation order from monitoring center

HC-A64BNP BACnet




- ◆ Running-state Monitoring / On-off Setting
- ◆ Airflow Setting and Monitoring
- ◆ Wireless Controller Permission/Prohibition
- ◆ Operating Mode Setting
- ◆ Alarm Monitoring and Code Display
- ◆ Indoor Temp. Monitoring
- ◆ Temperature Setting and Monitoring
- ◆ Communication Failure Display
- ◆ Filter Cleaning Prompting

HCPC-H2M1C Modbus



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

Converter Specifications

Item	HC-A64BNP	HCPC-H2M1C
		
BMS connection	BACnet	Modbus
Power supply	AC100~240V±10%(50/60Hz)	AC100~240V±10%(50/60Hz)
Connectable central controller	HYJE-D02H	Hi-Dom, HYJ-J01H
MAX.number of connectable indoor units	64	64
Dimension (LxWxH)	240mm×204mm×70mm	220mm×140mm×50mm

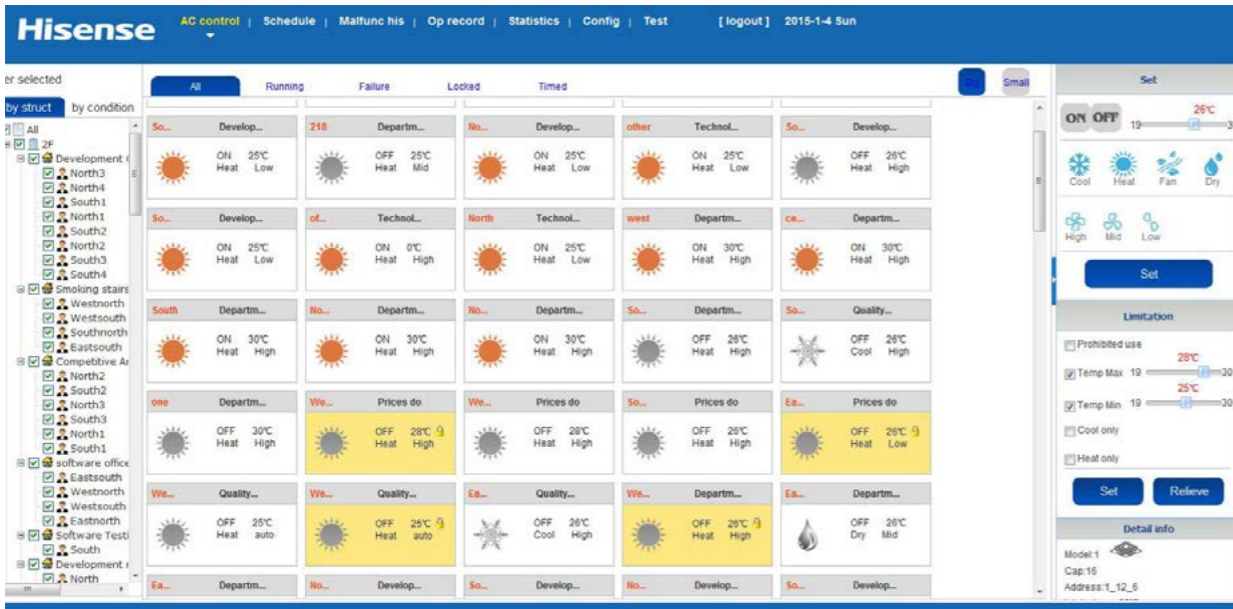
Hi-Dom Air Conditioning Management System

Centralized Control

Hi-Dom 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 4,096 indoor units.

Main Functions

- Running-state Monitoring
 - Determine the Temperature Limit
 - Running Records Display
 - Controller Prohibition Function
- Access Control
 - Automatic Operation According to Settings
 - Multifunction Alarm
 - Service Monitoring

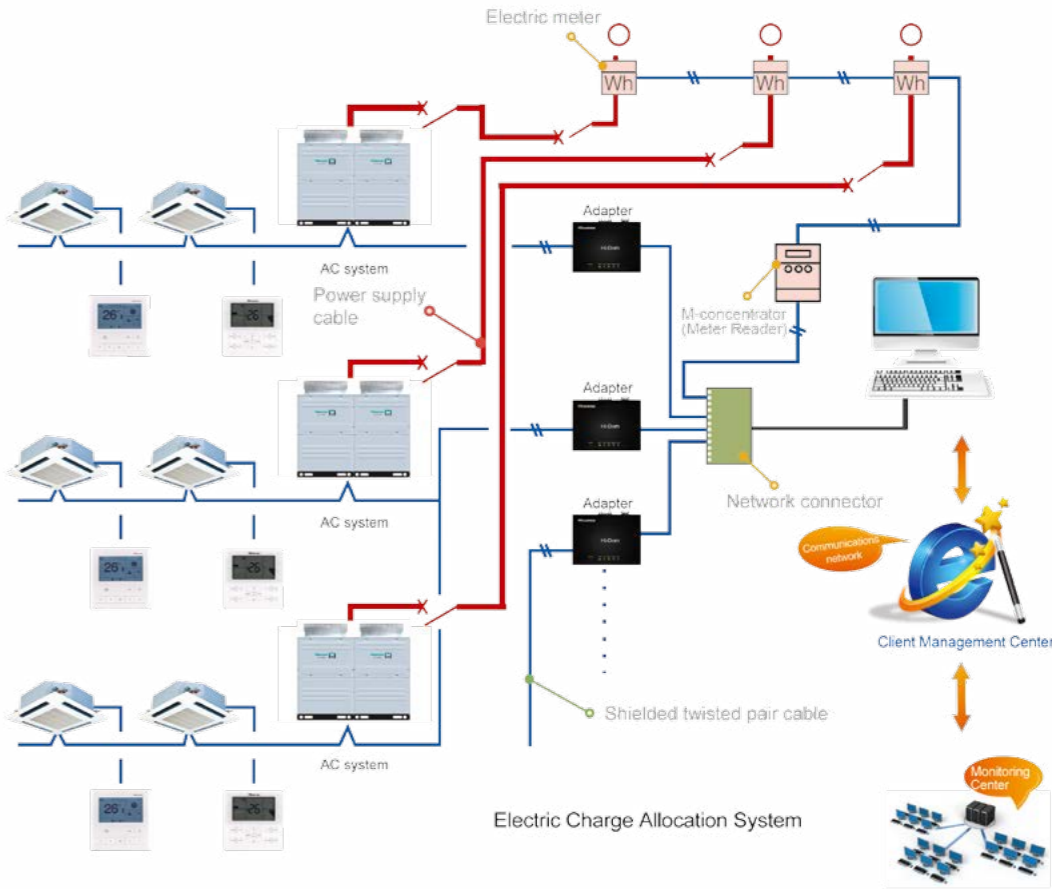


All the indoor units and outdoor units connected with one adapter comprise one communication BUS system .
Max.128 indoor units can be connected to a BUS system.
Max.32 adapters can be controlled by one computer.
Max.4096 indoor units are under control.

Electric Charge Allocation

Hi-Dom air conditioning management system consists of meter reading system and air conditioning management system. In accordance with the operation time and capacity output of indoor and outdoor units, the opening degree of EEV, the electric charge allocation software allocates the total power consumption to each indoor unit.

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.



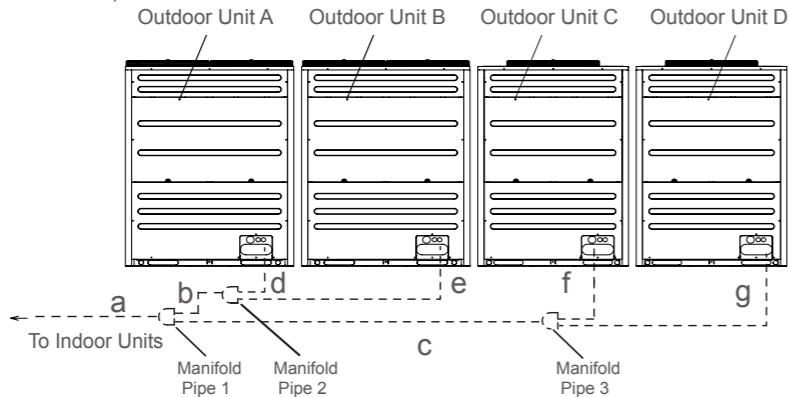
Hi-Dom System Specifications

Adapter	Model name	Power Supply	Dimension(mm)	Charging Function
(Hi-Dom)	HCCS-H128H2C1YM	DC 12V	180×110×40	With charging function
	HCCS-H128H2C1NM	DC 12V	180×110×40	Without charging function

| Piping Connection Kit

Manifold Pipe (For outdoor unit)

(Indoor Unit on Left Side)



For G+ Seris Heat Pump System

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

For G Series Heat Pump System

Outdoor Unit	AVWT-190~232UE(7)SZG1	AVWT-250~340UE(7)SZG	AVWT-364~510UE(7)SZG
Manifold Pipe 1	—	—	HFQ-M32F
Manifold Pipe 2	HFQ-M22F	HFQ-M32F	HFQ-M32F

For X Series Heat Pump System

Outdoor Unit	AVWT-480~AVWT-620
Outdoor Branch Pipe1	HFQ-M46F
Outdoor Branch Pipe2	HFQ-M32F
Outdoor Branch Pipe3	HFQ-M22F

For M Series Heat Pump System

Outdoor Unit	AVWT-182~232U6(7)SZ	AVWT-250~307U6(7)SZ	AVWT-328~386U6(7)SZ	AVWT-402~460U6(7)SZ
Manifold Pipe 1	—	—	HFQ-M32F	HFQ-M32F
Manifold Pipe 2	HFQ-M22F	HFQ-M32F	HFQ-M22F	HFQ-M32F

For R Series 2-Pipe Heat Pump System

Outdoor Unit	AVWT-190~232FE(7)SZ	AVWT-250~340FE(7)SZ	AVWT-364~510FE(7)SZ
Manifold Pipe 1	—	—	HFQ-M32F
Manifold Pipe 2	HFQ-M22F	HFQ-M32F	HFQ-M32F

For R Series Heat Recovery System

Outdoor Unit	AVWT-190~232FE(7)SZ	AVWT-250~340FE(7)SZ	AVWT-364~510FE(7)SZ
Manifold Pipe 1	—	—	HFQ-M302F
Manifold Pipe 2	HFQ-M202F	HFQ-M212F	HFQ-M302F

Branch Pipe (For indoor unit)

First Branch Pipe

For G+ Series 2-Pipe Heat Pump System

Outdoor Unit Hp	8 and 10	12 to 16	18 to 24	26 to 54	46 to 66	68 to 88
Branch Pipe	HFQ-102F	HFQ-162F	HFQ-242F	HFQ-302F	HFQ-462F	HFQ-682F

For G/X/M/R Series 2-Pipe Heat Pump System

Outdoor Unit Hp	8 and 10	12 to 16	18 to 24	26 to 54
Branch Pipe	HFQ-102F	HFQ-162F	HFQ-242F	HFQ-302F

For R Series Heat Recovery System

Outdoor Unit Hp	8 and 10	12 to 16	18 to 24	26 to 54	38 to 54
Branch Pipe	HFQ-M282F	HFQ-M452F	HFQ-M582F	HFQ-M892F	HFQ-M902F

First Branch Pipe~ Last Branch Pipe

For G+ Series 2-Pipe Heat Pump System

Total Indoor Unit HP	Lower than 6	6 to8.99	9 to11.99	12 to15.99	16 to17.99	18 to25.99	26 to35.99	34 to45.99	46 to57.99	58 to67.99	68
Gas (Φmm)	Φ15.88	Φ19.05	Φ22.2	Φ25.4	Φ28.6	Φ28.6	Φ31.75	Φ38.1	Φ41.3	Φ44.5	Φ50.8
Liquid (Φmm)	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ15.88	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ25.4
Branch Pipe	HFQ-102F			HFQ-162F		HFQ-242F	HFQ-302F		HFQ-462F		HFQ-682F

For G/X/M/R Series 2-Pipe Heat Pump System

Total Indoor Unit HP	Lower than 6	6 to 8.99	9 to 11.99	12 to 15.99	16 to 17.99	18 to 25.99	26 to 35.99	Over 36
Gas (Φmm)	Φ15.88	Φ19.05	Φ22.2	Φ25.4	Φ28.6	Φ28.6	Φ31.75	Φ38.1
Liquid (Φmm)	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ15.88	Φ19.05	Φ19.05
Branch Pipe	HFQ-102F			HFQ-162F		HFQ-242F	HFQ-302F	

For R Series Heat Recovery System

Total Indoor Unit HP	Lower than 6	6 to 8.99	9 to 11.99	12 to 15.99	16 to 17.99	18 to 21.99	22 to 25.99	26 to 35.99	Over 36
Low Pressure Gas (Φmm)	Φ15.88	Φ19.05	Φ22.2	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ31.75	Φ38.1
High Pressure Gas (Φmm)	Φ12.7	Φ15.88	Φ19.05	Φ22.2	Φ22.2	Φ22.2	Φ25.4	Φ28.6	Φ31.75
Liquid (Φmm)	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ19.05	Φ19.05
Branch Pipe	HFQ-M142F	HFQ-M282F		HFQ-M452F	HFQ-M562F		HFQ-M692F		HFQ-M902F

First Branch Pipe~ Last Branch Pipe

Indoor Unit	Pipe Size (Φmm)		Max. Liquid Pipe Length
	Gas Pipe	Liquid Pipe	
7kBtu/h~14kBtu/h	12.7	6.53	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

Notes 1. When liquid pipe length of indoor unit(07 18kBtu/h) is more than 15m, please change the liquid pipe dimension from Φ6.35 into Φ9.53.

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

Model	Gas Line	Liquid Line	Reducer for Gas Line	Reducer for Liquid Line
HFQ-052F				
HFQ-102F				 Q'ty : 2
HFQ-162F				 Q'ty: 1
HFQ-242F				 Q'ty: 1
HFQ-302F				 Q'ty: 1
HFQ-682F				

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

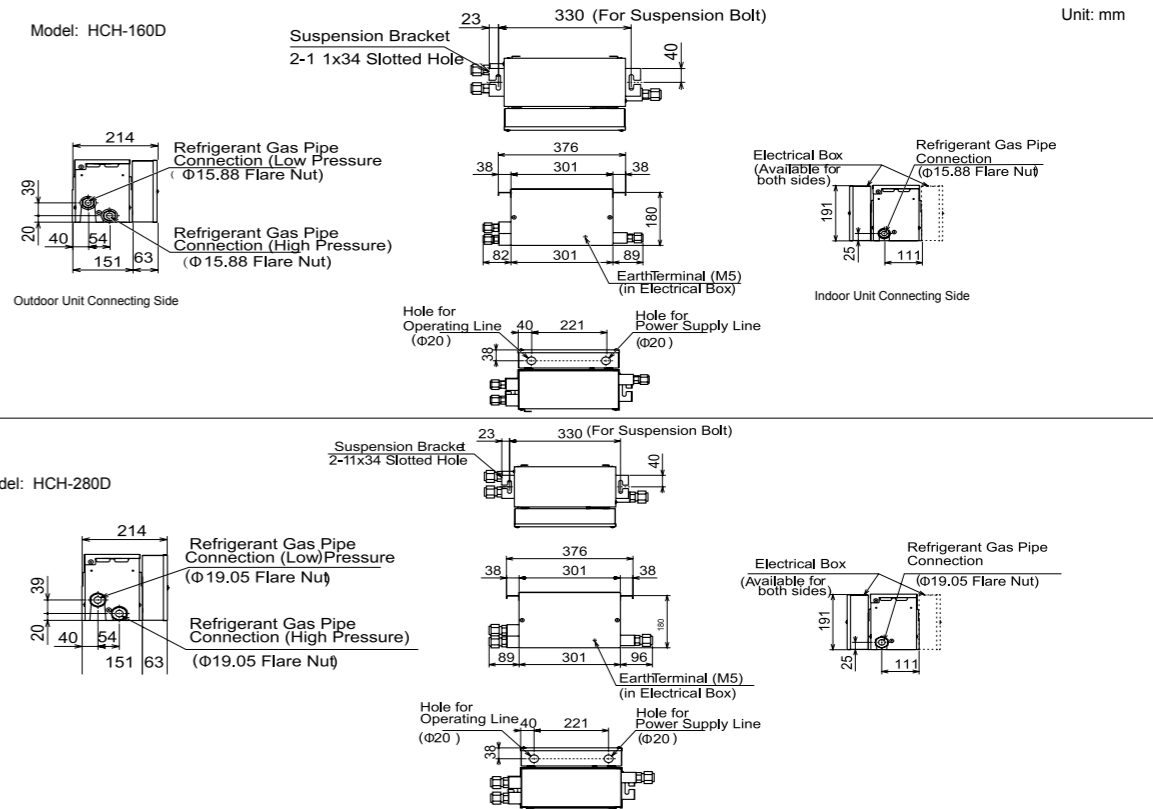
Branch Pipe Parameter

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				—	—	 Q'ty :2
HFQ-M282F				—	—	 Q'ty :2
HFQ-M452F				 Q'ty :1	 Q'ty :2	 Q'ty :1
HFQ-M562F				 Q'ty :1	 Q'ty :2	 Q'ty :1
HFQ-M692F				 Q'ty :1	 Q'ty :1	 Q'ty :1
HFQ-M902F				 Q'ty :1	 Q'ty :1	 Q'ty :1

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

Switch Box

Model	HCH-160D	HCH-280D
Power Supply	AC1Φ 220~240V/50Hz, 220V/60Hz	
Refrigerant	R410A	
Input (W)		
Connectable Indoor Unit Total Capacity	less than 54kBtu/h	55 to 96kBtu/h
Number of Connectable Indoor Unit	1 to 7	1 to 8
Net Weight (kg)	7	



Filter

Ceiling Ducted Type (Low Static Pressure)

Model	Applicable models	Picture
AVD-76*	HF-224L-FE	
AVD-96*	HF-280L-FE	

Ceiling Ducted Type (High Static Pressure)

Model	Applicable models	Picture
AVD-76*	HF-224L-FE	
AVD-96*	HF-280L-FE	

Ceiling Ducted Type (Low-Height)

Model	Applicable models	Picture
AVE-07~14*	KW-AC2Q	
AVE-17~24*	KW-BC2Q	

Ceiling Ducted Type (Slim)

Model	Applicable models	Picture
AVE-07~14*	HF-40L-ZFE	

Drain Pump—Optional

Model	Power supply	Consumption	MAX. Lift (mm)	Applicable models	HPS-132/HPS-162	HPS-151
HPS-132	AC 220~240V(50/60Hz)	9±1.5 W	900	For Ceiling ducted type(0.8 2.5Hp)		
HPS-162	AC 220~240V(50/60Hz)	9±1.5 W	900	For Ceiling ducted type(3.0 6.0Hp)		
HPS-151	AC 220~240V(50/60Hz)	9±1.5 W	600	External type, for general purpose(0.8 10Hp)		

Technology

We are passionate about technology and making it accessible to the world.

We believe that for technology to be truly innovative, it has to be accessible. It's not about what it is; it's about what it does. Technology connects us to our passion. It should make our world a better place. It should make what we want to do, where we want to go, and what we want to learn easier. And, it should be easy to use and available to everyone. Our mission is to develop technological innovations that improve the lives of others. We want our customers to happily exclaim, "Life is better with Hisense."

Warranty

We are passionate about standing behind our products.

We believe that products should perform so well that customers shouldn't need a warranty, but unexpected things happen. Therefore, all our products come with a warranty to provide peace of mind that, should something go wrong, we will stand behind our products.

Quality & Value

We are passionate about building dependable, easy-to-use, affordable products.

We believe the best things in life exceed expectations and that everyone should be able to enjoy the benefits of state-of-the-art technology. We take pride in the quality of our products. Our stringent Quality Improvement Process helps ensure we offer products that we're proud to sell and that you are proud to own. We want you to feel confident when buying Hisense, because we're a reliable brand that you can trust. Our "best value for your money" commitment gives our customers assurance that buying Hisense is the smart choice.

Service

We are passionate about making our customers happy.

We believe that manufactures need to be there after the sale. Technology changes rapidly and sometimes you need a little guidance along the way. Our service team is here to help. And, if you should have a problem, we want to help get it solved as fast as possible. Additionally, our service team works side-by-side with R&D, engineering, sales and marketing to ensure company-wide understanding of our customers and how our products are performing.

