# Hisense

Qingdao Hisense HVAC Equipment Co., Ltd.

Hisense Tower, Qingdao, China

🚯 http://www.hisense-vrf.com 🛛 export@hisensehitachi.com 🗣 HisenseVRFGlobal 🖬 @HisenseVRFGlobal 🗓 Hisense VRF



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# COMFORT AIR SOLUTION



# **COMPANY PROFILE** –

Qingdao Hisense HAVC Equipment Co., Ltd. is a wholly owned subsidiary of Qingdao Hisense Hitachi Air-conditioning Systems Co., Ltd., who is a joint-venture of Hisense Group and Hitachi Air Conditioning (changed to Johnson Control Hitachi in 2015) and was established in 2003. It integrates technology development for commercial and residential central air conditioners, product manufacturing, marketing and service as a whole. With the full support of all the shareholders such as Hisense Group and Johnson Control Hitachi, Hisense VRF is committed to becoming the market leader in the industry.



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



# **CONTENTS**

# & Benefits

RELIABILITY

EFFICIENCY

COMFORT

FLEXIBILITY

# Key Features Outdoor Unit

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

# **Indoor Unit**

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

# **Control System**

Accessory

INDEPENDENT CONTROLLER CENTRALIZED CONTROLLER Hi-DOM III BMS





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

The comprehensive and best technologies maintain system stability and reliability.



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



High corrosion resistance coating:EPOXY RESIN Hydrophilic coating



# RELIABILITY

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

#### HIGH RELIABILITY



# COMFORT

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





# INTELLIGENCE

What is business intelligence? Now, human need intelligence in all ways. Control whole
system only need a computer or a phone. You can know all running conditions. It is very
timely to find problems and solve them.
Individual billing system realizes more precise electric charge calculating to manage
efficiently. Enjoy the life of modernization.

HIGH INTELLIGENCE



- -

EFFICIENCY

7



COMFORT

FLEXIBILITY

## System oil cycle

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



#### **Oil retaining capability**

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

#### **Needless of oil balancing pipes**

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





#### **Oil separation**

First-stage oil separation is realized through efficient oil separation structure inside the compressor. Only a small amount of oil is brought out of the compressor. During second-stage oil separation, the small amount of oil discharged from compressor is separated by a large-capacity, high-efficiency centrifugal oil separator, with efficiency over 99%.



Blocking oil separation

#### **Double back-up protection**

ensure user's continuous comfort.





First Backup

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

# RELIABILITY

Centrifugal oil separation

Gravity oil separation

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

Second Backup

#### **Smart rotative operation**

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



#### **Anti-corrosion solution**

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



#### Hi black fin

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





#### **Self-protection**

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



# RELIABILITY

Hydrophilic coating High corrosion resistance coating: EPOXY RESIN Aluminum allov



#### **Electro-magnetic protection**

Air-conditioning units produced by Hisense VRF requires strict electromagnetic protection.

As to overcome such inevitable natural phenomenon to cause damages, 4000V sudden high voltage tests are infused into the long list of electromagnetism quality tests in our internationally qualified test laboratories.



## Safety protection

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



#### **Extreme weather withstand ability**

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

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



#### **Independent** maintenance

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



#### **Reliability transportation**

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

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



# RELIABILITY



## **EFFICIENCY**

#### Generation of enhanced vapor injection scroll compressor

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



#### 1 New Air Suction Structure

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

#### 2 Overpressure Releasing Valve

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

#### 3 Driven-frame Structure

High performance technology by reducing leakage loss and friction loss.

#### 4 Special Exhaust System

Minimum oil loss and saving oil within the compressor.

#### **5** Vapor Injection Design

#### 6 High-efficiency Motor

High efficiency by rare earth magnet and special designed motor.

#### **7** Oil-balance Pipe

Improve units reliability.

#### 8 Oil-separation Structure

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

#### 9 PVE Oil

Using PVE oil ensuring a high reliable and long life.

#### **Efficient energy usage**

metric scroll and patented release valves.



#### New advanced corrugated fin design

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

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

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

# **EFFICIENCY**

#### Wasted power is reduced by minimizing leakage and overcompression while compressing refrigerant gas with asym-





#### **EFFICIENCY**

#### Two-stage sub-cooling technology

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



**Optimized refrigerant circuit** 

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

2-to-1 Refrigerant flow path



#### Hisense refrigerant temperature control

Features:

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



Refrigerant evaporation temperature: Et=Eto+K Evaporating temperature control could be adjusted based on the difference between the indoor temperature (Tin) and the setting temperature (Tset).

 $\angle T = T \text{ in } - T \text{ set}$ 

Et: evaporating temperature Eto: initial value of evaporation temperature, Eto can be adjusted through the outdoor unit setting. K can be automatically adjusted according to the difference between the indoor temperature and the setting temperature  $\angle T$ .

# **EFFICIENCY**

## **EFFICIENCY**

#### High efficiency aerodynamic axial fan

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



#### **Demand mode**

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



#### **PTT defrosting mode**

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





Traditional Defrosting Mode



#### **Bottom anti-frosting structure**

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



# COMFORT

ost	ting		I		
	Heating				
		Les Rei	ss Frost, ducing Fre	equency of Defrostin	g
	Heating			Heating	
sti	ng	Defrostir	ng		

## COMFORT

#### **AirPure**

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

All-in-one Purifying Ionizer



#### Application

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





4-Way Cassette



Mini 4-Way Cassette



AC/DC Low-height

Ceiling Ducted





High/Low Static Pressure Ceiling Ducted\*

Console

#### perature in the range of ±0.5°C, reduces temperature fluctuation and effectively maintains the

desired temperature.

Precise temperature control

Hisense VRF provides very close tolerance of tem-



#### Precisely judge

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

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

#### Lower noise

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



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

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

## **COMFORT**

- Precisely judge indoor temperature:
- (1) Air return temperature sensor
- (2) Temperature sensor on wired remote controller
- (3) Based on the average value suitable for irregu-
- larly shaped room



# COMFORT

#### Night mode

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



#### 90s rapid heating start-up

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



#### **Smarter sensor - Hi-Motion**

What's more comfortable than having a unit that follows you to wherever corner of the room? Hisense VRF offers more than just artificial intelligent integrated AC unit. Hi-Motion, unbeatable style with elegant white circular design. Dynamic and practical with detection capability upto 7m distance and area of 34m<sup>2</sup>. Boundaryless installation including wall mounted or ceiling attached to meet any space restrictions and interior designs.



#### **VIP mode**

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



# COMFORT

#### **Main Functions**

#### **High Precision**

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

#### Wide Range

Sense as much as 34m<sup>2</sup> with almost no blind area

#### High Energy Conservation

Turn off AC automatically when nobody is in the room

## **FLEXIBILITY**

#### Mistake connection

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



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

#### **One-touch test run**

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



## Indoor unit dry contact interface

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



Note: this function can be achieved by the wired controller: HYXW-VA01, HYXM-VB01, HYXE-J01H

#### Automatic restart

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



The ODU will re-start and return to default conditions.

#### Automatic addressing

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



# **FLEXIBILITY**

# **FLEXIBILITY**

#### **Compact and light-weight**

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





#### **Convenient maintenance**

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



#### 7-segment LED on the outdoor

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



## Accurate intelligent system diagnosis

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



Note: The data collector is just used for maintenance.

# **FLEXIBILITY**



# **OUTDOOR UNIT**

Hi-FLEXi **S** Series Heat Recovery Hi-FLEXi **S** Series Heat Pump Hi-FLEXi G+ Series Heat Pump Hi-FLEXi W Series Water Source Heat Pump Hi-SMART H Series Heat Pump





## 360° fitted refrigerant cooling technology

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



## **Consecutive heating**

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





#### **Dual 20RT EEV**

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



10RT / 480 steps

# **Hi-FLEXi S Series Heat Recovery**





20RT / 3000 steps

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

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



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

#### Hydro box defrost

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







#### Extra long pipe design

With extra long pipe, the height difference between the installation more flexible.

Maximum length of a single pipe: 190m Total length of pipes: 1,000m	Maximum difference 15m(30m)
Maximum height difference between indoor and outdoor units: when the outdoor unit is above: 50m(90m)* when the outdoor unit is below: 40m(90m)*	Maximum the first br the farthe 90m
Max. pipe length between ODUs: 10m	

# Fan static pressure adaptive technology

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



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

# Hi-FLEXi S Series Heat Recovery



#### With extra long pipe, the height difference between the indoor unit and outdoor unit is up to 90m\*, which makes

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





# **APPLICATION CASE**





# Heat Recovery Without Switch Box (Summer)



# Heat Recovery Without Switch Box (Winter)



# Heat Pump Mode (Summer)



# Heat Pump Mode (Winter)



#### **ENERGY SAVING BACKGROUND**

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



#### WHY CHOOSE HEAT RECOVERY

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

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





	HP		7HP	10HP	12HP	
	Model		AVWT-72FFFH	AVWT-96FFFH	AVWT-120FFFH	
Model	Modules		-	-	-	
	Power Supply			AC 3Ф 208/230V/60Hz		
		kW	20.2	27.0	33.4	
Cooling*1/2	Capacity	kBtu/h	69	92	114	
	EER(Ducted/Non-ducted)	(Btu/h)/W	12.15/14.80	11.80/14.05	11.80/13.90	
	Conscitu	kW	22.0	29.3	36.9	
Heating*1/2	Capacity	kBtu/h	75	100	126	
	COP(Ducted/Non-ducted)	kW/kW	3.51/4.15	3.68/4.10	3.53/4.30	
	MCA	A	34.3	41.2	49.3	
	MOP	A	45	50	60	
Mantilation	Air Flow Rate	m³/min	183	183	200	
ventilation	Fan Quantity	-	1	1	2	
Sound*3	Sound*3 Sound Power Level dB(i		59	59 60		
_	Туре	-	E	nhanced Vapor Injection Scroll Compress	or	
Compressor	Compressor Quantity	PC	1	1 1		
Defriencet	Туре	-				
Retrigerant	Pre-charged Quantity	kg	6.0	6.0	8.8	
	Net Weight	kg	242	243	289	
Weight	Gross Weight	kg	270	271	320	
	External (H*W*D)	mm	1730×9	1730×950×750		
Dimensions	Packing(H*W*D)	mm	1950×1	1950×1275×790		
Cabinet Color*4	-	-		Ivory White		
		mm	Ф19.05	Φ22.20	Φ25.40	
Heat Pump	Gas	in.	Ф3/4	Φ7/8	Φ1	
Operation System		mm	Φ9.53	Ф9.53	Ф12.70	
	Liquid	in.	Φ3/8	Ф3/8	Φ1/2	
	Low Pressure Gas Line	mm	Φ19.05	Φ22.20	Ф25.40	
	Low Pressure ous Line	in.	Φ3/4	Φ7/8	Φ1	
Heat Recovery	High/Low Pressure Gas Line	mm	Φ15.88	Φ19.05	Ф22.20	
Operation System	Ingry cow rressure das Lille	in.	Φ5/8	Ф3/4	Φ7/8	
	Liquid Lipo	mm	Ф9.53	Ф9.53	Ф12.70	
		in.	Ф3/8	Ф3/8	Φ1/2	
Connectable Indoor Units	Quantity	PC	13	16	19	
Operation Range	Cooling	°C DB		-10~52		
	Heating °C WB		-25~16.5			

1. The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7\*C DB 19.4\*C WB, Outdoor Air Inlet Temperature: 35\*C DB, Piping Length: 7.6m, Piping Lift: 0m. Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB. Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: -8.3°C DB 6.9.4°C WB. 2. Rated capacity and efficency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

3. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 1.0m from the service cover surface and 1.5m from floor level.

4. The final appearance of outdoor units is subject to the actual products.



	HP		14HP	17HP	19HP			
	Model		AVWT-144FFFH	AVWT-168FFFH	AVWT-192FFFH			
Model	Modules		-	-	-			
	Power Supply			AC 3Ф 208/230V/60Hz				
		kW	40.4	46.9	53.9			
Cooling*1/2	Capacity	kBtu/h	138	160	184			
	EER(Ducted/Non-ducted)	(Btu/h)/W	10.85/12.10	11.00/11.85	11.40/11.85			
	Constitu	kW	44.0	49.8	58.6			
Heating <sup>*1/2</sup>	Capacity	kBtu/h	150	170	200			
	COP(Ducted/Non-ducted)	kW/kW	3.27/3.61	3.21/3.49	3.28/3.51			
	MCA	A	60.1	62.3	78.1			
MOP A			80	80	100			
Mandalatian	Air Flow Rate	m³/min	267	267	350			
ventilation	Fan Quantity	-	2	2	2			
Sound*3	Sound*3 Sound Power Level dB(A)		62 62		63			
_	Туре	-	E	Enhanced Vapor Injection Scroll Compressor				
Compressor	Compressor Quantity	PC	2 2		2			
Defrigerent	Туре	-	R410A					
Kerrigerant	Pre-charged Quantity	kg	9.8 9.8		11.5			
	Net Weight	kg	361	362	389			
Weight	Gross Weight	kg	392 393		422			
	External (H*W*D)	mm	1730×1	350×750	1730×1600×750			
Dimensions	Packing(H*W*D)	mm	1950×1	420×790	1950×1665×790			
Cabinet Color*4	-	-		Ivory White				
		mm	Φ25.40	Φ28.60	Φ28.60			
Heat Pump	Gas	in.	Φ1	Φ1-1/8	Φ1-1/8			
Operation System	theated	mm	Φ12.70	Φ12.70	Φ15.88			
	Liquid	in.	Φ1/2	Φ1/2	Φ5/8			
	Low Pressure Gas Line	mm	Φ25.40	Φ28.60	Φ28.60			
	Low Pressure Gas Enfe	in.	Φ1	Φ1-1/8	Φ1-1/8			
Heat Recovery	High/Low Pressure Gas Line	mm	Φ22.20	Φ22.20	Φ22.20			
Operation System	This is cow the source das Lille	in.	Φ7/8	Φ7/8	Φ7/8			
	Liquid Lino	mm	Ф12.70	Φ12.70	Φ15.88			
	Liquiu Line	in.	Φ1/2	Φ1/2	Φ5/8			
Connectable Indoor Units	Quantity	PC	23	29	33			
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Notes

1. The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7°C DB 19.4°C WB, Outdoor Air Inlet Temperature: 35°C DB, Piping Length: 7.6m, Piping Lift: 0m.

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

4. The final appearance of outdoor units is subject to the actual products.

	HP		22HP	24HP	26HP	29HP		
	Model		AVWT-216FFFH	AVWAVWT-240FFFH	AVWT-264FFFH	AVWT-120AVWT-288FFFH		
Model	Modules			AVWI-120FFFH	AVWI-120FFFH	AVVVI-144FFFH		
			AV WI-120FFFN	AVWI-120FFFH	AV WI-144FFFH	AVVVI-144FFFH		
	Power Supply			AC 3Ф 208/	/230V/60Hz			
Cooling*1/2	Constitu	kW	60.4	66.8	73.8	80.8		
	Capacity	kBtu/h	206	228	252	275.5		
	EER(Ducted/Non-ducted)	(Btu/h)/W	11.81/13.96	11.81/13.89	11.26/12.86	10.85/12.11		
	Conscitu	kW	66.2	73.8	80.9	88.0		
Heating*1/2	Capacity	kBtu/h	226	252	276	300.5		
	COP(Ducted/Non-ducted)	kW/kW	3.60/4.21	3.53/4.30	3.38/3.90	3.27/3.61		
	MCA	A	41.2+49.3	49.3+49.3	49.3+60.1	60.1+60.1		
	MOP	A	50+60	60+60	60+80	80+80		
Mantilation	Air Flow Rate	m³/min	183+200	200+200	200+267	267+267		
ventilation	Fan Quantity	-	1+2	2+2	2+2	2+2		
Sound*3	Sound <sup>*3</sup> Sound Power Level dB(A)		64	65	65	65		
	Туре	-						
Compressor	Compressor Quantity	PC	1+1	1+1	1+2	2+2		
Refrigerant	Туре	-	R410A					
	Pre-charged Quantity	kg	6.0+8.8	8.8+8.8	8.8+9.8	9.8+9.8		
	Net Weight	kg	243+289	289+289	289+361	361+361		
Weight	Gross Weight	kg	271+320	320+320	320+392	392+392		
	External (H*W*D)	mm	1730×950+1210×750	1730×1210+1210×750	1730×1210+1350×750	1730×1350+1350×750		
Dimensions	Packing(H*W*D)	mm	1950×1015+1275×790	1950×1275+1275×790	1950×1275+1420×790	1950×1420+1420×790		
Cabinet Color*4	-	-		Ivory V	Vhite			
	-	mm	Φ28.60	Φ31.75	Ф31.75	Ф31.75		
Heat Pump	Gas	in.	Ф1-1/8	Φ1-1/4	Φ1-1/4	Φ1-1/4		
Operation System		mm	Φ15.88	Φ19.05	Φ19.05	Φ19.05		
	Liquia	in.	Φ5/8	Ф3/4	Φ3/4	Ф3/4		
	Low Pressure Gas Line	mm	Φ28.60	Φ31.75	Ф31.75	Ф31.75		
	Edwirressure dus Eine	in.	Φ1-1/8	Φ1-1/4	Φ1-1/4	Ф1-1/4		
Heat Recovery	High /Low Prossure Cas Line	mm	Φ25.40	Φ25.40	Φ28.60	Φ28.60		
Operation System	High/LOW Flessure Gas Line	in.	Φ1	Φ1	Φ1-1/8	Ф1-1/8		
	the still the e	mm	Φ15.88	Φ19.05	Φ19.05	Φ19.05		
	Liquid Line	in.	Φ5/8	Ф3/4	Φ3/4	Φ3/4		
Connectable Indoor Units	Quantity	PC	36	43	47	50		
Operation Range	Cooling	°C DB		-10~	52			
operation nange	Heating	°C WB		-25~16.5				

1. The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7°C DB 19.4°C WB, Outdoor Air Inlet Temperature: 35°C DB, Piping Length: 7.6m, Piping Lift: 0m. Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB. Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB. 2. Rated capacity and efficency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

3. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 1.0m from the service cover surface and 1.5m from floor level.

4. The final appearance of outdoor units is subject to the actual products.





	HP		31HP	34HP	36HP	39HP		
	Model		AVWT-312FFFH	AVWT-336FFFH	AVWT-360FFFH	AVWT-384FFFH		
	moder							
Model	Modules		AVWT-144FFFH	AVWT-168FFFH	AVWT-168FFFH	AVWT-192FFFH		
			AVW1-168FFFH	AVW1-168FFFH	AVW1-192FFFH	AVWI-192FFFH		
	Power Supply			AC 3Ф 208,	/230V/60Hz			
		kW	87.3	93.8	100.8	107.8		
Cooling*1/2	Capacity	kBtu/h	298	320	344	368		
	EER(Ducted/Non-ducted)	(Btu/h)/W	10.92/11.98	10.99/11.84	11.19/11.84	11.40/11.84		
		kW	93.8	99.6	108.4	117.2		
Heating*1/2	Capacity	kBtu/h	320	340	370	400		
	COP(Ducted/Non-ducted)	kW/kW	3.24/3.54	3.21/3.49	3.25/3.50	3.28/3.51		
	MCA	A	60.1+62.3	62.3+62.3	62.3+78.1	78.1+78.1		
	MOP	A	80+80	80+80	80+100	100+100		
Mandiatan	Air Flow Rate	m³/min	267+267	267+267	267+350	350+350		
ventilation	Fan Quantity	-	2+2	2+2	2+2	2+2		
Sound*3	Sound*3 Sound Power Level dB(A)		65 65		66 66			
_	Туре	-		Enhanced Vapor Injec	tion Scroll Compressor			
Compressor	Compressor Quantity	PC	2+2	2+2	2+2	2+2		
Definement	Туре	-		R4	10A			
Remigerant	Pre-charged Quantity	kg	9.8+9.8 9.8+9.8		9.8+11.5	11.5+11.5		
	Net Weight	kg	361+362	362+362	362+389	389+389		
Weight	Gross Weight	kg	392+393	393+393	393+422	422+422		
	External (H*W*D)	mm	1730×1350	)+1350×750	1730×1350+1600×750	1730×1600+1600×750		
Dimensions	Packing(H*W*D)	mm	1950×1420	)+1420×790	1950×1420+1665×790	1950×1665+1665×790		
Cabinet Color*4	-	-		Ivory V	Vhite			
		mm	Φ31.75	Φ38.10	Ф38.10	Φ38.10		
Heat Pump	Gas	in.	Φ1-1/4	Φ1-1/2	Φ1-1/2	Φ1-1/2		
Operation System		mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05		
	Liquid	in.	Φ3/4	Ф3/4	Φ3/4	Ф3/4		
	Low Pressure Gas Line	mm	Ф31.75	Φ38.10	Ф38.10	Φ38.10		
	Eow messure dus Eine	in.	Φ1-1/4	Φ1-1/2	Φ1-1/2	Φ1-1/2		
Heat Recovery	High /Low Proceuro Cas Lino	mm	Φ28.60	Φ28.60	Φ31.75	Φ31.75		
Operation System	High/LOW Flessure Gas Line	in.	Φ1-1/8	Φ1-1/8	Φ1-1/4	Φ1-1/4		
	Liquid Ling	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05		
	Liquia Line	in.	Ф3/4	Φ3/4	Φ3/4	Ф3/4		
Connectable Indoor Units	Quantity	PC	53	59	64	64		
Operation Rango	Cooling	°C DB		-10^	52			
operation Range	Heating	°C WB	-25~16.5					

Notes

1. The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7°C DB 19.4°C WB, Outdoor Air Inlet Temperature: 35°C DB, Piping Length: 7.6m, Piping Lift: 0m. Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 23.1°C DB 6.1°C WB. Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB. Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB. 2. Rated capacity and efficency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org. 3. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 1.0m from the service cover surface and 1.5m from floor level.

4. The final appearance of outdoor units is subject to the actual products.

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	HP		41HP	43HP	46HP	
	Madal		AVWT-408FFFH	AVWT-432FFFH	AVWT-456FFFH	
-	IVIOUEI		AVWT-120FFFH	AVWT-144FFFH	AVWT-144FFFH	
Model	Modules		AVWT-144FFFH	AVWT-144FFFH	AVWT-144FFFH	
	modules		AVWT-144FFFH	AVWT-144FFFH	AVWT-168FFFH	
	Power Supply			AC 30 208/230V/60Hz		
Cooling*1/2		kW	114.2	121.2	127.7	
	Capacity	kBtu/h	389.5	413.5	435.5	
cooning	EER(Ducted/Non-ducted)	(Btu/h)/W	11.12/12.59	10.85/12.11	10.88/12.01	
		kW	124.9	132.0	137.8	
Heating <sup>*1/2</sup>	Capacity	kBtu/h	426	450.5	470	
ricuting	COP(Ducted/Non-ducted)	kW/kW	3.34/3.79	3,27/3.61	3.25/3.57	
	MCA	A	49.3+60.1+60.1	60.1+60.1	60.1+62.3	
	MOP	A	60+80+80	80+80+80	80+80+80	
	Air Flow Rate	m³/min	200+267+267	267+267+267	267+267+267	
Ventilation	Fan Quantity	-	2+2+2	2+2+2	2+2+2	
Sound Power Level		dB(A)	67	67	67	
Sound	Туре	-	Er	or		
Compressor	Compressor Quantity	PC	1+2+2	1+2+2 2+2+2		
Refrigerant	Туре	-				
	Pre-charged Quantity	kg	8.8+9.8+9.8	8.8+9.8+9.8 9.8+9.8		
	Net Weight	kg	289+361+361 361+361+361		361+361+362	
Weight	Gross Weight	kg	320+392+392	392+392+392	392+392+393	
	External (H*W*D)	mm	1730×1210+1350+1350×750	1730×1350+13	50+1350×750	
Dimensions	Packing(H*W*D)	mm	1950×1275+1420+1420×790	1950×1420+14	20+1420×790	
Cabinet Color*4		-		Ivory White		
		mm	Ф38.10	Φ38.10	Ф38.10	
Heat Pump	Gas	in.	Φ1-1/2	Φ1-1/2	Ф1-1/2	
Operation System		mm	Φ19.05	Φ19.05	Φ19.05	
	Liquid	in.	Φ3/4	Φ3/4	Ф3/4	
		mm	Ф38.10	Φ38.10	Ф38.10	
	Low Pressure Gas Line	in.	Φ1-1/2	Φ1-1/2	Φ1-1/2	
Heat Recovery		mm	Ф31.75	Φ31.75	Ф31.75	
Operation System	High/Low Pressure Gas Line	in.	Ф1-1/4	Φ1-1/4	Ф1-1/4	
		mm	Ф19.05	Φ19.05	Ф19.05	
	Liquid Line	in.	Ф3/4	Φ3/4	Φ3/4	
Connectable	Quantity	PC	64	64	64	
On another Design	Cooling	°C DB		-10~52		
Operation Range	Heating °C WB		-25~16.5			

1. The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 26.7°C DB 19.4°C WB, Outdoor Air Inlet Temperature: 35°C DB, Piping Length: 7.6m, Piping Lift: 0m. Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB. Heating Operation Conditions: Low Temp. Heating Condition, Indoor Air Inlet Temperature: 21.1°C DB, Outdoor Air Inlet Temperature: 8.3°C DB 6.1°C WB. 2. Rated capacity and efficency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

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4. The final appearance of outdoor units is subject to the actual products.



#### **NEW SWITCH BOX**

#### Introduction

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

#### Advantage

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

		Single Branch		Multiple Branch					
	iviodei			HCHS-N10XB	HCHM-N04XB	HCHM-N08XB	HCHM-N12XB	HCHM-N16XB	
Power Supply				1Ф 208/230V/60Hz					
Number of F	Ports (for Indoor Unit)		1	1	4	8	12	16	
Outer Din	nensions (H*W*D)	mm	301×191×214	301×191×214	303×352×260	543×352×260	783×352×260	1023×352×260	
Net Weight		kg	6.3	6.4	14.1	25.2	35.5	46.7	
Max. Number of Connected IDUs Per Port			8	8	8	8	6	6	
Max. Total Capacity of Connected IDUs Per Port		kW	16	28	16	16	16	16	
Maximum Total Ca	pacity of All Connected IDUs	kW	16	28	44.8	85	85	85	
Ope	ration Sound	dB(A)	33	33	31	31	34	34	
	Gas Line (High/Low Pressure)	mm	15.88	15.88	22.2	22.2	25.4	28.6	
Refrigerant Piping	Gas Line (Low Pressure)	mm	19.05	19.05	25.4	28.6	28.6	31.75	
	Liquid Line	mm	_	_	12.7	12.7	15.88	19.05	
Refrigerant Piping	Gas Line	mm	15.88	19.05	15.88	15.88	15.88	15.88	
(from IDUs)	Liquid Line	mm	_	_	9.53	9.53	9.53	9.53	

New Switch Box

**Original Products** 



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#### Specification for Hydro Box

Image: Figs and the set of	Hydro	Box Model		AHM-080FJFAA	AHM-160FJFAA	
Cooling Capacity (A //⊂ // № 30 s7C)KM7.511.25Heating Gapacity (A //⊂ // № 30 s7C)KM816Nomal Peer InputKM0.08(3.08)0.014(3.14)DimensionsH-WXPQM980-5504320980-5504320Packing DimensionsH-WXPQM980-55043201200-555-462WeightMetKg5558WeightNetKg7558Heat ExchangerIG7558Heat ExchangerIG1200-555-452Meter FooductionCG50-55Meter FooductionCG50-55Meter FooductionGG50-55Sound PressureB40(3G50-55Sound PressureB40(3GG50-55Piping ConnectionGGG50-55Piping ConnectionGásmmGG50-55Piping ConnectionGásMGG50-55Piping ConnectionGásMGG50-55Piping ConnectionGásMGG50-55Piping ConnectionGásMGGGGPiping ConnectionGásMGGGGPiping ConnectionGásMGGGGPiping ConnectionMGGGGGPiping ConnectionMGGGGGPiping Co	Power	Supply		AC 1Ф 220-	-240V/60Hz	
Heating Capacity (∠/ YG 20 35°C / YG 20 35°C / YG 20 35°C / YG 20 36°C /	Cooling Capacity (A	35/24°C /W 12-7°C )		7.5	12.5	
NemialNumNum0.08(3.08)0.14(3.14)DimensionsH4WADmm88055/03/088055/03/0Packing DimensionsH4WAD1120595546211205955462WeightH6MCKg0.55MeightGrossKg7275Heat ExchangerKg7275Heat ExchangerKg672Heat ExchangerKg672Heat ExchangerKg672Mute ProductionC672Diffwijk electric heater)C672Sound Pressur48(A)G32Sound Pressur48(A)G72Piping ConnectionsGásmmGJuliquidmmG12.5Piping ConnectionsGásmm12.5Piping ConnectionsKgG5Mater Pumping Head for Mater Circuit1012.5Pumping Head for Mater CircuitKg3Pumping Head for Mater CircuitKg3Mater FilterKWG3Piping Connections DiameterKWGMater FilterKgG13.4Piping Connections DiameterMin14.5Mater FilterKWG3Mater FilterMinGMater FilterKWG14.5Mater FilterKWG14.5Mater FilterKWG14.5Mater FilterKWG14.	Heating Capacity (A	7/6°C /W 30-35°C )	kW	8	16	
DimensionsIMWDNMB90-520420B90-520420Packing DimensionsHKWDNm1120-55%4621120-55%462WeghtNMSSSHatForSSSHeatNetSSSHeatEchanger// DefinitionSGSSMetherNetSGSSDefinitionSGSSSDefinitionCGSSSSound PressureBKGGGSSPiping ConcetonGaMGGSSPiping ConcetonGaMGSSSPiping ConcetonGaMGSSSPiping ConcetonGaMSSSSPiping ConcetonGaMSSSSPiping ConcetonGaMSSSSPiping ConcetonMGSSSSPiping Concetons DannerMGSGSSPiping Concetons DannerMGSGSSPiping Concetons DannerMGGGGGGPiping Concetons DannerMGGGGGGGGGGGGGGGGGGGGGGG <td< td=""><td>Nominal P</td><td>ower Input</td><td>kW</td><td>0.08(3.08)</td><td>0.14(3.14)</td></td<>	Nominal P	ower Input	kW	0.08(3.08)	0.14(3.14)	
<table-row><table-row>Paking DirectionMeMoMeMeMeMeMeNeightKGGGGMetherKGGGGMater DoubleKGGGGMater DoubleKGGGGGMater DoubleKGGGGGSourd PresserKGGGGGGMater DoubleGG<!--</td--><td>Dimensions</td><td>H×W×D</td><td>mm</td><td>890×520×320</td><td>890×520×320</td></table-row></table-row>	Dimensions	H×W×D	mm	890×520×320	890×520×320	
NeightNetNetNetSetHat ChargeriIHat ChargeriIHat ChargeriIBeat ChargeriIDiffyring ChargeriISound PresureGRIISound PresureGRIISound PresureGRIIPhiption ChargerIIPhiption ChargerIIPhiption ChargerIIPhiption ChargerIIPhiption ChargerIIPhiption ChargerIIPhiption ChargerIIIIIPhiption ChargerIIIIIPhiption ChargerII <t< td=""><td>Packing Dimensions</td><td>H×W×D</td><td>mm</td><td>1120×595×462</td><td>1120×595×462</td></t<>	Packing Dimensions	H×W×D	mm	1120×595×462	1120×595×462	
WingitGrosskg7275Heat Exchanger-IGROSSElastow-roadHeat Exchanger-Relating'CGROSSMeating or'CGROSSSourd Dissow-roadMater Production'CGROSSSourd Dissow-roadSound PressuredB(A)'CGROSSSound PressuredB(A)GROSSSourd Dissow-roadPiping ConnectionsGROSmGROSSJulquidmGROSSSourd Dissow-roadPiping ConnectionsGROSGROSSSourd Dissow-roadGROSmGROSSSourd Dissow-roadPiping ConnectionsMGROSSSourd Dissow-roadMater PumpGROSmGROSSPower InputMGROSSSourd Dissow-roadPiping ConnectionsmGROSSSourd Dissow-roadMater FilterDiameter PerforationsmGROSSPiping Connections DiametermGROSSGROSSMater CircuitFilting Connections DiametermGROSSMater CircuitFilting Connections DiameterMGROSSMater CircuitFilting Connections DiameterMGROSSMater CircuitFilting Connections DiameterMGROSSGROSSGROSSGROSSGROSSMater CircuitFilting Connections DiameterMGROSSGROSSGROSSGROSSGROSSMater CircuitGross DiameterMGROSSGROSSGROSS	Maight	Net	kg	55	58	
Heat ExchangerIndIndex IDataHeat ExchangerIndex IDataIndex IDataHeat ExchangerIndex IDataIndex IDataHeatingIndex IDataIndex IDataMatter ProductionIndex IDataIndex IDataSound PresureIdKIIndex IDAtaPiping ConectionIndex IDAtaIndex IDAta	weight	Gross	kg	72	75	
Heat ExcessionInitialInitialInitialHeating%GGMeter Production%GGSound Presure%GGSound Presure%GGSound Presure%GGSound Presure%GGSound Presure%GGSound Presure%GGSound Presure%GGSound Presure%GGSound Presure%GGParting Resure%GGParting Resure%GGMatter PurpMGGPresure%GGPresure%GGPresure%GGMatter Fuller%GGMatter Fuller%GGMatter Fuller%GGMatter Fuller%GGMatter Solution%GGMatter Solution%GG<	Heat Exc	hanger		Plate Heat	Exchanger	
Heating°C2000000000000000000000000000000000000	Heat Exchanger In	sulation Material		Elastome	eric Foam	
Water ProductionDHW(with electric heater)°C $35  ext{ Sound Pressure}$ Sound PressuredB(A) $5  ext{ Sound Pressure}$ dB(A)Sound PowerGasdB(A)		Heating	°C	20 t	o 55	
Ícoling°CICISound Pressure86/A	Water Production	DHW(with electric heater)	°C	35 t	io 75	
Sound PressuredB(A)Image: Constraint of the sector o		Cooling	°C	5 to	o 20	
Sound Powerd8(A)GasMmGPiping ConnectionsGasmmGLiquidmmGGMater PumpTypeGGPumping HeadMGGPumping Head for Water CircuitMGGPumping Head for Water CircuitMGGPumping Head for Water CircuitMGGPower InputWGGPower InputWGGPower InputMWGGPower InputMMGGPower InputMMG	Sound Pressure		dB(A)	33		
Piping ConnectionsGasmm0Liquidmm00Mater PumpTypeV0Pumping Headm1.2.51.2.5Pumping Head for Water CircuitM1.0.55Power InputW10.0160Power InputW3.03.0Power InputW3.03.0Power InputW3.03.0Power InputW3.03.0Power InputW0.0.650.0.65Power InputW0.0.650.0.65Power InputW0.0.650.0.65Power InputM0.0.650.0.65Power InputM0.0.61/4"0.0.65Power InputM0.0.760.0.65Power InputM0.0.750.0.65Power InputN0.0.650.0.65Power InputN0.0.650.0.65Power InputM0.0.61/4"0.0.65Power InputM0.0.750.0.65<	Sound Power			46		
Hyping connectorsIuquidmmOUTORHarry PumpInterpretationInterpretationInterpretationWater PumpPumping HeadmInterpretationPumping Head for Water CircuitInterpretationInterpretationPumping Head for Water CircuitInterpretationInterpretationPower InputWInterpretationInterpretationBooter TurnerInterpretationInterpretationInterpretationMater FilterInterpretationInterpretationInterpretationMater FilterInterpretationInterpretationInterpretationMater FilterInterpretationInterpretationInterpretationMater FilterInterpretationInterpretationInterpretationMater FilterInterpretationInterpretationInterpretationMater FilterInterpretationInterpretationInterpretationMater FilterInterpretationInterpretationInterpretationMater PretationInterpretationInterpretationInterpretationMater PresaureInterpretationInterpretationInterpretationMater PressureInterpretationInterpretationInterpretationMater PressureInterpretationInterpretationInterpretationMater PressureInterpretationInterpretationInterpretationMater PressureInterpretationInterpretationInterpretationMater PressureInterpretationInterpretationInterpretationMa	Dining Connections	Gas	mm	Ф9.53		
Water PumpImage for the second se	Piping connections	Liquid	mm	Φ15.88		
Water PumpSpeedInInternationalPumping Head for Water CircutImSpeedSpeedPumping Head for Water CircutImSpeedSpeedPower InputImSpeedSpeedPower InputImSpeedSpeedPower FilterImSpeedSpeedPhiping Connections DiameterImSpeedSpeedPhiping Connections DiameterImSpeedSpeedPhiping Connections DiameterImSpeedSpeedPhiping Connections DiameterImSpeedSpeedPhiping Connections DiameterImSpeedSpeedPhiping Connections DiameterImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpeedSpeedImSpeedSpeedSpee		Туре		DC Motor		
Pumping Headm1.2.5Pumping Head for Water CircuitV5Power InputW100Booser	Water Pump	Speed		Inverter Control		
Pumping Head for Water CircuitImage: Marcine SectorSPower InputW100160Booser		Pumping Head	m	12.5	12.5	
Power Inputw100160Booser - User SectorKW33Water FilterDiameter Perforationsmm0.850.85Mater FilterPiping Connections DiametermmGf.1.1/4"Gf.1.1/4"Piping Connections DiametermmGf.1.1/4"Gf.1.1/4"Mater CircuitPiping Connections DiametermmGf.1.1/4"Shut off ValveImGf.1.1/4"Gf.1.1/4"Shut off ValveImGf.1.1/4"Gf.1.1/4"Ghater ValveImGf.1.1/4"Gf.1.1/4"Ghater ValveImGf.1.1/4"Gf.1.1/4"Ghater ValveImGf.1.1/4"Gf.1.1/4"Ghater ValveImGf.1.1/4"Gf.1.1/4"Ghater ValveImGf.1.1/4"Gf.1.1/4"Max Dater PressureImGf.1.1.3Gf.1.1/4"Max.Water PressureImGf.1.1.3Gf.1.1.3Max.Water PressureImGf.1.1.3Gf.1.1.3Max.Water PressureImGf.1.1.3Gf.1.1.3Max.Water PressureImGf.1.3Gf.1.3Max.Water PressureImGf.1.3.3Gf.1.3.3Max.Water PressureImGf.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3		Pumping Head for Water Circuit		5	5	
Boostr+ting         kW         3         3           Water Filter         Diameter Perforations         mm         0.85         0.85           Meter Filter         Meterial         mm         0.85         0.85           Piping Connections Diameter         im         Gf.1/4"         Gf.1/4"           Mater Filter         Minode State Sta		Power Input	w	100	160	
Diameter Perforations         mm         0.85         0.85           Meter Filter         Meterial         M         0.85         0.85           Piping Connections Diameter         M         Gf.1/4"         Hpb59-1           Mater Circuit         Piping Connections Diameter         M         Gf.1/4"         Gf.1/4"           Mater Circuit         Shut off Valve         M         Yes         Yes           Mater Circuit         Shut off Valve         M         Yes         Yes           Mater Circuit         Shut off Valve         M         Yes         Yes           Mater Circuit         Mater Pressure         Math         Yes         Yes           Mater Pressure         Mater Pressure         Math         Safety Safety         Safety	Booster H	leating	kW	3	3	
Mater Hiter         Meterial         Hpb59-1         Hpb59-1           Piping Connections Diameter         mm         G1-1/4"         G1-1/4"           Mater Circuit         Piping Connections Diameter         mm         G1-1/4"         G1-1/4"           Mater Circuit         Shut off Valve         Mm         G1-1/4"         Mes           Mater Circuit         Shut off Valve         M         Mes         Mes           Mater Circuit         G1         Max         Mater Pressure         Ma           Max. Water Pressure         Mar         Gar         Gar         Gar	Mater Filter	Diameter Perforations	mm	0.85	0.85	
Piping Connections DiametermmG f1/4"G f1/4"Water CircuitPiping Connections DiameterMmG f1/4"Shut off ValveIIYesDrain ValveIIYesSafety ValveBarIIAir Purge ValveIIIMomIIIIIIIIIPapersonMarkIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	water Filter	Meterial		Hpb59-1	Hpb59-1	
Shut off Valve         N         Yes           Dain Valve         I         Yes         Yes           Dain Valve         I         Yes         Yes           Safety Valve         Bar         3         3         3           Air Purge Valve         I         Yes         Yes         3         3           Nominut         Im <sup>3</sup> /H         1.38         2.75         3           Argen Yessee         Im <sup>3</sup> /H         Imagen Yes         1magen Yes         3		Piping Connections Diameter	mm	G1-1/4"	G1-1/4"	
Water Circuit         Drain Value         Image: Constraint of the system         Yes           Air Purge Value         Bar         3         3           Air Purge Value         Image: Constraint of the system         Yes         Yes           Nominut         Mark         Mark         Mark         Sard         Sard           Air Purge Value         Mark         Mark         Sard         Sard         Sard           Mark Water Pressure         Bar         Sard         Sard         Sard         Sard		Shut off Valve		Yes	Yes	
Safety Valve         Bar         3         3           Air Purge Valve         V         Yes         Yes           Nomi>Verson         m³/h         1.38         2.75           Preson Verson         Volume         L         8         8           Max. Water Pressure         Bar         3         3	Water Circuit	Drain Valve		Yes	Yes	
Air Purge Valve         Yes           Nominal Value         m³/h         1.38         2.75           Presenting         Volume         L         8         8         3           Max. Water Pressure         Bar         3         3         3         3		Safety Valve	Bar	3	3	
Nominal Veter         m³/h         1.38         2.75           Kpansion Vessel         Volume         L         8         8         8           Max. Water Pressure         Bar         3         3         3		Air Purge Valve		Yes	Yes	
Volume         L         8         8           Max. Water Pressure         Bar         3         3	Nominal	Water	m³/h	1.38	2.75	
Max. Water Pressure Bar 3 3	Evenning Vasad	Volume	L	8	8	
	expansion vesser	Max. Water Pressure	Bar	3	3	

#### **Operation Range**

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

#### Water Module Cooling

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

#### Water Module Heating (DHW)

	Maximum	Minimum	DB: Dry
Inlet Water	54°C	10°C	(*) 48°C
Outdoor	43°C WB	-25°C WB**	(**) -20°

Bulb Bulb DB ~ 52°C DB, Operation Control Range C WB ~ -25°C WB, Operation Control Range

# Hi-FLEXi S Series Heat Recovery

#### Indoor Unit Heating

Indoor

Inlet Water Outdoor

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

#### Water Module Heating (Floor Heating)

Maximum	Minimum				
54°C	10°C				
16.5°C WB	-25°C WB**				





#### 360° fitted refrigerant cooling technology

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

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

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

# r°

#### **Extral long pipe design**

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

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

Maximum height 15m(30m)\*

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

90m

Max. pipe length between ODUs: 10m

## **Rapid heating under low temperature**

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

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

Test conditions:	50
<ul> <li>Outdoor suction temperature: -15°C(dry bulb),</li> <li>Relative humidity: 75%,</li> </ul>	40
<ul> <li>Indoor unit suction temperature : 20°C(dry bulb), high air volume.</li> <li>Length of indoor and outdoor pipes: 6 meters.</li> </ul>	30
Measurement sites: laboratory of constant temperature.	20
	10

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

# **Hi-FLEXi S Series Heat Pump**



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





460										
	нр		ЯНР	10HP	12HP	14HP	16HP	18НР		
	Model		AVWT-76HHESE	AVWT-96HHESE	AVWT-114HHESE	AVWT-136HHESE	AVWT-154HHESE	AVWT-170HHESE		
Model	Modules		-	-	-	-	-	-		
	Power Supply				AC 3Φ 46	60V/60Hz				
Cooling		kW	22.4	28.0	33.5	40.0	45.0	50.0		
	Capacity	kBtu/h	76.4	95.5	114.3	136.5	153.5	170.6		
	Power Input	kW	4.85	6.75	8.07	10.26	12.10	14.04		
	EER	kW/kW	4.62	4.15	4.15	3.90	3.72	3.56		
Heating		kW	25.0	31.5	37.5	45.0	50.0	56.0		
	Capacity	kBtu/h	85.3	107.5	128.0	153.5	170.6	191.1		
	Power Input	kW	5.15	6.77	9.17	10.82	12.14	14.74		
	COP	kW/kW	4.85	4.65	4.09	4.16	4.12	3.80		
	Air Flow Rate	m³/min		183	1	200				
Ventilation	Fan Quantity			1		2				
Sound	Sound Power Level	dB(A)	59	60	62	62	62	62		
_	Туре	-			Enhanced Vapo	r Injection Compress	sor			
Compressor	Compressor Quantity	PC	1	1	1	1	1	2		
	Туре	-		1	R4:	10A	1	L		
Refrigerant	Pre-charged Amount	kg	7.4	7.4	9.5	12.0	12.0	13.2		
14/-:	Net Weight	kg	231	232	252	304	305	354		
vveight	Gross Weight	kg	250	251	272	328	329	378		
	External (HxWxD)	mm		1730x950x750	1		1730x1210x750	L		
Dimensions	Packing(HxWxD)	mm		1930x1015x790			1930x1275x790			
Cabinet Color	-				lovry	White				
	C	mm	Φ19.05	Φ22.20	Φ25.40	Φ25.40	Φ28.60	Φ28.60		
Def Dining	GdS	in.	3/4	7/8	1	1	1-1/8	1-1/8		
Kel. Piping		mm	Φ9.53	Φ9.53	Φ12.70	Φ12.70	Φ12.70	Φ15.88		
	Liquid	in.	3/8	3/8	1/2	1/2	1/2	5/8		
Connectable Indoor Units	Quantity	PC	13	16	19	23	26	29		
	Height Difference Between	m		W	hen the Outdoor Un	it is Above: 50m(90n	n*)			
Pining Docign	ODU and IDU	m		W	hen the Outdoor Uni	t is Below:40m (90m	1*)			
TIPING DESIGN	Height Difference Between IDUs	m		Maximu	um Height Difference	of Indoor Units: 15r	n(30m*)			
	Max. Piping Length	m			10	000				
Operation Down	Cooling	°C DB			-51	~52				
Operation Range	Heating	°C WB	-25~16.5							

Notes:

1.Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m Heating conditions: indoor air inlet temperature:20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m 2.The above noise values are measured in the anchoic 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 height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
5.When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.



	HP		20HP	22HP	24HP	26HP	28HP		
	Model		AVWT-190HHFSE	AVWT-212HHFSE	AVWT-232HHFSE	AVWT-250HHFSE	AVWT-272HHFSE		
Model									
	Modules		-	-	-	-	-		
	Power Supply			-	AC 3Φ 460V/60Hz				
	Canacity	kW	56.0	61.5	68.0	72.5	80.0		
Cooling	Capacity	kBtu/h	191.1	209.8	232.1	246.5	272.0		
Cooling	Power Input	kW	15.47	17.93	20.61	21.90	24.24		
	EER	kW/kW	3.62	3.43	3.30	3.31	3.30		
	Canacity	kW	63.0	69.0	75.0	80.0	90.0		
Heating	capacity	kBtu/h	215.0	235.4	255.0	272.0	306.0		
i leating	Power Input	kW	16.45	18.80	21.37	22.22	25.71		
	COP	kW/kW	3.83	3.67	3.51	3.60	3.50		
	Air Flow Rate	m³/min	267	296	296	350	350		
Ventilation	Fan Quantity		2						
Sound	Sound Power Level	dB(A)	63	64	66	67	67		
_	Туре	-	Enhanced Vapor Injection Compressor						
Compressor	Compressor Quantity	PC	2						
Defrigerent	Туре	-	- R410A						
Reingerani	Pre-charged Amount	kg	14.3	15.5	15.5	17.3	17.3		
Woight	Net Weight	kg	368	376	377	421	422		
weight	Gross Weight	kg	402	403	404	453	454		
Dimensions	External (HxWxD)	mm		1730x1350x750		1730x16	1600x750		
	Packing(HxWxD)	mm	1930x1420x790 1930x166			565x790			
Cabinet Color	-				lovry White				
		mm	Φ28.60	Φ28.60	Φ28.60	Ф31.75	Φ31.75		
Ref. Piping	Gas	in.	1-1/8	1-1/8	1-1/8	1-1/4	1-1/4		
	Liquid	mm	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ19.05		
	Liquiu	in.	5/8	5/8	5/8	3/4	3/4		
Connectable Indoor Units	Quantity	PC	33	36	40	43	47		
	Height Difference Between	m		When the	Outdoor Unit is Above: !	50m(90m*)			
Disis a Dasian	ODU and IDU	m		When the	Outdoor Unit is Below:4	0m (90m*)			
Pipilig Design	Height Difference Between IDUs	m		Maximum Heig	ht Difference of Indoor U	Inits: 15m(30m*)			
	Max. Piping Length	m			1000				
Operation Rango	Cooling	°C DB			-5~52				
operation nange	Heating	°C WB			-25~16.5				

Notes:

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	Hisense Mi-FLEX	4
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460						Hisense 💽	
	HP		30HP	32HP	34HP	36HP	38HP
	Widder		AVVV1-290HHFSE	AVW1-SUGHIFSE	AVVV1-324nnFSE	AVW1-344HHF3E	AVW1-SOURIFSE
Model	Modules		AVWT-136HHFSE	AVWT-154HHFSE	AVWT-154HHFSE	AVWT-154HHFSE	AVWT-170HHFSE
	modules		AVWT-154HHFSE	AVWT-154HHFSE	AVWT-170HHFSE	AVWT-190HHFSE	AVWT-190HHFSE
	Power Supply		05.0	00.0	AC 3Ф 460V/60Hz	101.0	105.0
	Capacity	kW	85.0	90.0	95.0	101.0	201.7
Cooling	Douron Innut	kBtu/h	290.0	307.0	324.1	344.6	361.7
	FER	KVV	22.35	24.19	20.14	27.57	29.31
	EEN	KVV/KVV	5.60	100.0	105.0	112.0	119.0
	Capacity	KVV	224.1	341.2	361.7	285.6	406.1
Heating	Power Input		22 95	24.27	26.90	28.61	31.15
		KVV	A 1A	4.12	3.94	20.01	3.82
	Air Flow Rate	m <sup>3</sup> /min	400	400	400	467	467
Ventilation	Fan Quantity	111 /11111	400	400	400	107	107
Sound	Sound Power Level	dB(A)			67		
bound	Type	-		Enhan	ed Vapor Injection Com	oressor	
Compressor	Compressor Quantity	PC			3	4	
	Type	-					
Refrigerant	Pre-charged Amount	kg	24.0 24.0 25.2		26.3	27.5	
	Net Weight	kg	609	610	659	673	722
Weight	Gross Weight	kg	657	658	707	731	780
Dimensions	External (HxWxD)	mm		1730x(1210+1210)x750		1730x(1210	)+1350)x750
Dimensions	Packing(HxWxD)	mm		1930x(1275+1275)x790		1930x(1275	5+1420)x790
Cabinet Color	-				lovry White		
		mm	Φ31.75	Φ31.75	Ф38.1	Φ38.1	Ф38.1
Ref Dining	Gas	in.	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2
Net. Libring	(tout)	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
	Liquia	in.	3/4	3/4	3/4	3/4	3/4
Connectable Indoor Units	Quantity	PC	49	52	55	59	62
	Height Difference Between	m		When the	Outdoor Unit is Above:	50m(90m*)	
Dining Design	ODU and IDU	m		When the	Outdoor Unit is Below:4	0m (90m*)	
Piping Design	Height Difference Between IDUs	m		Maximum Heig	ht Difference of Indoor U	Inits: 15m(30m*)	
	Max. Piping Length	m			1000		
Operation Pange	Cooling	°C DB			-5~52		
Operation Range	Heating	°C WB			-25~16.5		

Notes:

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

Alated cooling capacity and rated heating capacity are tested in the following conditions:
 Cooling conditions: indoor air inlet temperature: 27°C DB 19°C VB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m
 Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m
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	HP		40HP	42HP	44HP	46HP	48HP		
	Model		AVWT-380HHFSE	AVWT-402HHFSE	AVWT-422HHFSE	AVWT-444HHFSE	AVWT-464HHFSE		
Model	Modules		AVWT-190HHFSE	AVWT-170HHFSE	AVWT-190HHFSE	AVWT-212HHFSE	AVWT-232HHFSE		
			AVWT-190HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE		
	Power Supply			· /	AC 3Ф 460V/60Hz	1	I		
		kW	112.0	118.0	124.0	129.5	136.0		
Cooling	Capacity	kBtu/h	382.1	402.7	432.2	441.9	464.2		
Cooling	Power Input	kW	30.94	34.65	36.08	38.54	41.21		
	EER	kW/kW	3.62	3.41	3.44	3.36	3.30		
	Canacity	kW	126.0	131.0	138.0	144.0	150.0		
Heating	Capacity	kBtu/h	430.0	446.1	470.0	490.4	510.0		
nearing	Power Input	kW	32.90	36.09	37.81	40.22	42.74		
	COP	kW/kW	3.83	3.63	3.65	3.58	3.51		
	Air Flow Rate	m³/min	534	496	563	592	592		
Ventilation	Fan Quantity		4						
Sound	Sound Power Level	dB(A)	67	67	68	68	69		
	Туре	-	Enhanced Vapor Injection Compressor						
Compressor	Compressor Quantity	PC	4						
Defrigenet	Туре	-	R410A						
Kerrigerant	Pre-charged Amount	kg	28.6	31.9	32.4	34.9	31.0		
	Net Weight	kg	736	731	745	753	754		
Weight	Gross Weight	kg	804	782	806	807	808		
Dimensions	External (HxWxD)	mm	1730x(1350+1350)x750	1730x(1210+1350)x750		1730x(1350+1350)x750			
	Packing(HxWxD)	mm	1930x(1420+1420)x790	1930x(1275+1420)x790		1930x(1420+1420)x790			
Cabinet Color	-				lovry White				
	_	mm	Ф38.1	Ф38.1	Ф38.1	Φ41.3	Φ41.3		
Ref. Piping	Gas	in.	1-1/2	1-1/2	1-1/2	1-5/8	1-5/8		
	Liquid	mm	Φ19.05	Φ19.05	Φ19.05	Φ22.2	Φ22.2		
	Liquiu	in.	3/4	3/4	3/4	7/8	7/8		
Connectable Indoor Units	Quantity	PC	64	64	64	64	64		
	Height Difference Between	m		When the	Outdoor Unit is Above: !	50m(90m*)			
Disise Desier	ODU and IDU	m		When the	Outdoor Unit is Below:4	0m (90m*)			
Piping Design	Height Difference Between IDUs	m		Maximum Heigh	nt Difference of Indoor U	Inits: 15m(30m*)			
	Max. Piping Length	m			1000				
Operation Rango	Cooling	°C DB			-5~52				
Operation Range	Heating	°C WB		-25~16.5					

#### Notes:

1.Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 3°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m 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 height difference between ODU&IDU more than 50(40)m, please contact our professional engineer. 5.When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.





	HP		50HP	52HP	54HP	56HP			
	Model		AVWT-482HHFSE	AVWT-504HHFSE	AVWT-522HHFSE	AVWT-544HHFSE			
Model	Modules		AVWT-232HHFSE	AVWT-232HHFSE	AVWT-250HHFSE	AVWT-272HHFSE			
			AVWT-250HHFSE	AVWT-272HHFSE	AVWT-272HHFSE	AVWT-272HHFSE			
Power Supply				AC 3Φ 460V/60Hz					
	Constitu	kW	140.0	148.0	152.5	160.0			
Castina	Capacity	kBtu/h	478.6	504.1	518.5	544.0			
Cooling	Power Input	kW	42.51	44.85	46.15	48.48			
	EER	kW/kW	3.29	3.30	3.30	3.30			
	Capacity	kW	155.0	165.0	170.0	180.0			
lleating	Capacity	kBtu/h	527.0	561.0	578.0	612.0			
neating	Power Input	kW	43.54	47.14	47.89	51.43			
	СОР	kW/kW	3.56	3.50	3.55	3.50			
	Air Flow Rate	m³/min	646	646	700	700			
Ventilation	Fan Quantity		4						
Sound	Sound Power Level	dB(A)	70						
	Туре	-		Enhanced Vapor Inj	jection Compressor				
Compressor	Compressor Quantity	PC		1					
	Туре	-	R410A						
Refrigerant	Pre-charged Amount	kg	32.8	32.8	34.6	34.6			
	Net Weight	kg	798	799	843	844			
Weight	Gross Weight	kg	857	858	907	908			
Dimensions	External (HxWxD)	mm		1730x(1350+1600)x750		1730x(1600+1600)x750			
Dimensions	Packing(HxWxD)	mm		1930x(1420+1665)x790		1930x(1665+1665)x790			
Cabinet Color	-			lovry	White	1			
		mm		Φ4	1.3				
Ref Dining	Gas	in.	1-5/8						
Net. Libing		mm		Φ2	2.2				
	Liquid	in.		7,	/8				
Connectable Indoor Units	Quantity	PC		6	i4				
	Height Difference Between	m		When the Outdoor Un	it is Above: 50m(90m*)				
	ODU and IDU	m		When the Outdoor Un	it is Below:40m (90m*)				
Piping Design	Height Difference Between IDUs	m		Maximum Height Difference	e of Indoor Units: 15m(30m*)				
	Max. Piping Length	m			000				
	Cooling	°C DB		-5'	~52				
Operation Range	Heating	°C WB		-25~16.5					

Notes:

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

Cooling conditions: indoor air inlet temperature: 20°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m 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.

The final appearance of outdoor units is subject to the actual products.
 For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
 When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.



460						
	Model		AVWT-552HHFSE	AVWT-570HHFSE	AVWT-592HHFSE	AVWT-612HHFSE
			AVWT-170HHESE	AV/WT-190HHESE	ΔV/W/T_170HHESE	۵\/WT-190HHESE
Model	Modules		AVWT-170HHESE	AVWT-190HHESE	AVWT-190HHESE	AVWT-190HHESE
			AVWT-212HHESE	AVWT-190HHESE	AVWT-232HHESE	AVWT-232HHESE
	Devers			AC 20 40		,
	Power Supply	LW.	161 5	AC 30 40	174.0	180.0
	Capacity	kPtu/b	551.0	573.3	593.7	614.3
Cooling	Power Input	kW	46.02	46.41	50.12	51 55
	EER	kW/kW	3.51	3.62	3.47	3.49
		kW	181.0	189.0	194.0	201.0
	Capacity	kBtu/h	617.6	645.0	661.1	685.0
Heating	Power Input	kW	48.27	49.35	52.57	54.32
	СОР	kW/kW	3.75	3.83	3.69	3.70
	Air Flow Rate	m³/min	696	801	763	830
Ventilation	Fan Quantity			6	;	
Sound	Sound Power Level	dB(A)		7	D	
	Туре	-		Enhanced Vapor Inj	ection Compressor	
Compressor	Compressor Quantity	PC		6	i	
	Туре	-		R41	AC	
Refrigerant	Pre-charged Amount	kg	41.9	42.9	43.0	44.1
Woight	Net Weight	kg	1084	1104	1099	1113
weight	Gross Weight	kg	1159	1206	1184	1208
Dimensions	External (HxWxD)	mm	1730x(1210+1210+1350)x750	1730x(1350+1350+1350)x750	1730x(1210+1350+1350)x750	1730x(1350+1350+1350)x750
	Packing(HxWxD)	mm	1930x(1275+1275+1420)x790	1930x(1420+1420+1420)x790	1930x(1275+1420+1420)x790	1930x(1420+1420+1420)x790
Cabinet Color	-			lovry	White	
	Gas	mm		Φ4	4.5	
Ref. Piping		in.		1-3	8/4	
	Liquid	mm		Φ2	2.2	
		in.		7,	/8	
Connectable Indoor Units	Quantity	PC		6	4	
	Height Difference Between	m		When the Outdoor Un	it is Above: 50m(90m*)	
Piping Design	ODO and IDO	m		When the Outdoor Un	it is Below:40m (90m*)	
	Height Difference Between IDUs	m		Maximum Height Difference	of Indoor Units: 15m(30m*)	
	Max. Piping Length	m		10		
Operation Range	Looling	°C DB		-5^	16.5	
	Heating	°C WB		-25~	16.5	

Notes:

1.Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 3°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m 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 height difference between ODU&IDU more than 50(40)m, please contact our professional engineer. 5.When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

59



	HP		66HP	68HP	70HP	72HP		
	Model		AVWT-634HHFSE	AVWT-654HHFSE	AVWT-676HHFSE	AVWT-696HHFSE		
No. Jel			AVWT-190HHFSE	AVWT-190HHFSE	AVWT-212HHFSE	AVWT-232HHFSE		
Model	Modules		AVWT-212HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE		
			AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE	AVWT-232HHFSE		
	Power Supply		AC 30 460V/60Hz					
		kW	185.5	192.0	197.5	204.0		
	Capacity	kBtu/h	633.0	655.3	674.0	696.3		
Cooling	Power Input	kW	54.01	56.68	59.14	61.82		
	EER	kW/kW	3.43	3.39	3.34	3.30		
		kW	207.0	213.0	219.0	225.0		
	Capacity	kBtu/h	705.4	725.0	745.4	765.0		
Heating	Power Input	kW	56.56	59.17	61.52	64.10		
	СОР	kW/kW	3.66	3.60	3.56	3.51		
	Air Flow Rate	m³/min	859	859	888	888		
Ventilation	Fan Quantity		6					
Sound	Sound Power Level	dB(A)	70 70 70 71					
	Туре	-	- Enhanced Vapor Injection Compressor PC 6					
Compressor	Compressor Quantity	PC						
	Туре	-	R410A					
Refrigerant	Pre-charged Amount	kg	45.3	45.3	46.5	46.5		
	Net Weight	kg	1121	1122	1130	1131		
Weight	Gross Weight	kg	1209	1210	1211	1212		
Dimensions	External (HxWxD)	mm		1730x(1350+13	350+1350)x750			
	Packing(HxWxD)	mm		1930x(1420+14	420+1420)x790			
Cabinet Color	-			lovry	White			
	-	mm	Φ44.5		Φ50.8			
Ref. Piping	Gas	in.	1-3/4		2			
	Liquid	mm	Φ22.2		Φ25.4			
	Liquid	in.	7/8		1			
Connectable Indoor Units	Quantity	PC	64		64			
	Height Difference Between	m		When the Outdoor Un	it is Above: 50m(90m*)			
Piping Decign	ODU and IDU	m		When the Outdoor Un	it is Below:40m (90m*)			
FIPIIIR DESIRI	Height Difference Between IDUs	m		Maximum Height Difference	e of Indoor Units: 15m(30m*)			
	Max. Piping Length	m		10	000			
Operation Range	Cooling	°C DB		-51	~52			
Operation Range	Heating	°C WB		-25^	16.5			

Notes:

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

Cooling conditions: indoor air inlet temperature: 20°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m 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.

The final appearance of outdoor units is subject to the actual products.
 For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.
 When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.



460						
	Model		AVWT-714HHESE	AVWT-732HHESE	AVWT-754HHESE	AVWT-776HHESE
	model		AV/WT-232HHESE	AVWT-232HHESE	AVWT-232HHESE	AVWT-232HHESE
Model	Modules		AVWT-232HHFSE	AVWT-250HHESE	AVWT-250HHESE	AVWT-272HHESE
			AVWT-250HHESE	AVWT-250HHESE	AVWT-272HHESE	AVWT-272HHESE
	Dowor Cumplu			AC 20 46	01/6047	
	Power supply	LAM .	208.5	213.0	220.5	228.0
	Capacity	kBtu/h	710.7	725.1	750.6	776.1
Cooling	Power Input	kW	63.12	64.41	66.75	69.09
	EER	kW/kW	3.30	3.31	3.30	3.30
		kW	230.0	235.0	245.0	255.0
line free	Capacity	kBtu/h	782.0	799.0	833.0	867.0
Heating	Power Input	kW	64.97	65.83	69.21	72.86
	COP	kW/kW	3.54	3.57	3.54	3.50
	Air Flow Rate	m³/min	942	996	996	996
Ventilation	Fan Quantity				5	
Sound	Sound Power Level	dB(A)		7	1	
Compressor	Туре	-		Enhanced Vapor In	jection Compressor	
Compressor	Compressor Quantity	PC			5	
Refrigerant	Туре	-		R41	0A	
	Pre-charged Amount	kg	48.3	50.1	50.1	50.1
Weight	Net Weight	kg	1175	1219	1220	1221
	Gross Weight	kg	1261	1310	1311	1312
Dimensions	External (HxWxD)	mm	1/30x((1350+1350+1600))x/50		1/30x(1350+1600+1600)x/50	
Coldinate Colori	Packing(HxWxD)	mm	1930X(1420+1420+1665)X790		1930X(1420+1665+1665)X/90	
Cabinet Color	-			lovry	white	
	Gas	in		Ψ	2	
Ref. Piping		III.		<u>.</u>	۲ ۵ ۵	
	Liquid	in		Ψ2	1	
Connectable Indoor Units	Quantity	DC		f	54	
and the second s	Usisht Differen Dat	m		When the Outdoor Ur	it is Above: 50m(90m*)	
	ODU and IDU	m		When the Outdoor Un	it is Below:40m (90m*)	
Piping Design	Height Difference Between IDUs	m		Maximum Height Difference	of Indoor Units: 15m(30m*)	
	Max. Piping Length	m		1	000	
	Cooling	°C DB		-5'	~52	
Operation Range	Heating	°C WB		-251	16.5	

Notes:

1.Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 3°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m 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 height difference between ODU&IDU more than 50(40)m, please contact our professional engineer. 5.When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.



Notes

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

Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m Heating conditions: indoor air inlet temperature: 27°C DB, 0utdoor air inlet temperature: 35°C 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.

The final appearance of outdoor units is subject to the actual products.
 For height difference between ODU&IDU more than 50(40)m, please contact our professional engineer.

5.When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.

460						964P
	Model		AVWT-866HHFSE	AVWT-886HHFSE	AVWT-908HHFSE	AVWT-928HHFSE
Model	Modules		AVWT-190HHFSE AVWT-212HHFSE AVWT-232HHFSE AVWT-232HHFSE	AVWT-190HHFSE AVWT-232HHFSE AVWT-232HHFSE AVWT-232HHFSE	AVWT-212HHFSE AVWT-232HHFSE AVWT-232HHFSE AVWT-232HHFSE	AVWT-232HHFSE AVWT-232HHFSE AVWT-232HHFSE AVWT-232HHFSE
	Power Supply	1	252.5	AC 30 46	0V/60Hz	272.0
Cooling	Capacity	kW kBtu/h	865.1	887.4	906.1	928.4
cooning	Power Input	kW	74.61	77.29	79.75	82.42
	EER	kW/kW	3.40	3.36	3.33	3.30
Heating -	Capacity	kW kBtu/h	282.0 960.4	288.0 980.0	294.0	300.0
	Power Input	kW	77.90	80.45	82.82	85.47
	COP	kW/kW	3.62	3.58	3.55	3.51
	Air Flow Rate	m³/min	1155	1155	1184	1184
Ventilation	Fan Quantity	,		٤	3	
Sound	Sound Power Level	dB(A)		7	2	
Comproses	Туре	-		Enhanced Vapor Inj	iection Compressor	
Compressor	Compressor Quantity	PC		٤	3	
Refrigerant	Туре	-		R41	0A	
Refigeranc	Pre-charged Amount	kg	60.6	61.6	64.3	62.0
Weight	Net Weight	kg	1498	1499	1507	1508
	Gross Weight	kg	1613	1614	1615	1616
Dimensions	External (HxWxD)	mm		1730x(1350+135	0+1350+1350)x750	
	Packing(HxWxD)	mm		1930x(1420+142	0+1420+1420)x/90	
Cabinet Color	-			lovry	white	
	Gas	mm		Ψ5	2	
Ref. Piping		in.		مە	5 /	
	Liquid	in			1	
Connectable Indoor Units	Quantity	PC			4	
		m		When the Outdoor Un	it is Above: 50m(90m*)	
	ODU and IDU	m		When the Outdoor Un	it is Below:40m (90m*)	
Piping Design	Height Difference Between IDUs	m		Maximum Height Difference	of Indoor Units: 15m(30m*)	
	Max. Piping Length	m		10	000	
On and the D	Cooling	°C DB		-51	*52	
Operation Range	Heating	°C WB		-25^	16.5	

Notes

1.Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 3°C DB 6°C 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 height difference between ODU&IDU more than 50(40)m, please contact our professional engineer. 5.When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer

460									
	Model		AVWT-946HHFSE	AVWT-968HHFSE	AVWT-988HHFSE	AVWT-1008HHFSE			
Model	Modules		AVWT-232HHFSE AVWT-232HHFSE AVWT-232HHFSE AVWT-250HHFSE	AVWT-232HHFSE AVWT-232HHFSE AVWT-232HHFSE AVWT-272HHFSE	AVWT-212HHFSE AVWT-232HHFSE AVWT-272HHFSE AVWT-272HHFSE	AVWT-232HHFSE AVWT-232HHFSE AVWT-272HHFSE AVWT-272HHFSE			
	Power Supply		276.5	AC 30 46	00V/60Hz	205.0			
Cooling	Capacity	kW kBtu/h	942.8	968.3	985.9	1008.0			
cooning	Power Input	kW	83.72	86.06	87.02	89.70			
	EER	kW/kW	3.30	3.30	3.33	3.30			
Heating	Capacity	kW	305.0	315.0	324.0	330.0			
		kBtu/h	1037.0	10/1.0	1102.4	1122.0			
	Power Input	kW	86.40	89.74	91.53	94.29			
	СОР	kW/kW	3.53	3.51	3.54	3.50			
Ventilation	Air Flow Rate	m³/min	1238	1238	1292	1292			
	Fan Quantity			8					
Sound	Sound Power Level	dB(A)	72	72	72	73			
Compressor	Туре	-		Enhanced Vapor Inj	ection Compressor				
	Compressor Quantity	PC		8					
Refrigerant	Туре	-		R410	A				
	Pre-charged Amount	kg	63.8	63.8	65.6	65.6			
Weight	Net Weight	kg	1552	1553	1597	1598			
	Gross Weight	kg	1665	1666	1715	1716			
Dimensions	External (HxWxD)	mm	1730x(1350+1350+	+1350+1600)x750	1730x(1350+1350	+1600+1600)x750			
	Packing(HxWxD)	mm	1930x(1420+1420+	+1420+1665)x790	1930x(1420+1420	+1665+1665)x/90			
Cabinet Color	-			lovry	White				
	Gas	mm		Ψ5	0.8				
Ref. Piping		in.							
	Liquid	mm		Ψ2	5.4				
Connectable Indees II-ite	Quantity	in.			4				
Connectable Indoor Units	Quantity	PC		When the Outdoor Up	4				
	Height Difference Between	m		When the Outdoor UN	t is Releved 0m (00*)				
Piping Design		m		when the Outdoor Uni	IL IS DEIOW:40M (90M*)				
	Height Difference Between IDUs	m		Maximum Height Difference	of Indoor Units: 15m(30m*)				
	Max. Piping Length	m °C DD		10	50 100				
Operation Range	Heating	CDB		-5"	16 5				
	nearing	CAAR	-25~16.5						

Notes:

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

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



460		Historic				112HP
	Model		AVWT-1026HHFSE	AVWT-1048HHFSE	AVWT-1066HHFSE	AVWT-1088HHFSE
Model	Modules		AVWT-232HHFSE AVWT-250HHFSE AVWT-272HHFSE AVWT-272HHFSE	AVWT-232HHFSE AVWT-272HHFSE AVWT-272HHFSE AVWT-272HHFSE	AVWT-250HHFSE AVWT-272HHFSE AVWT-272HHFSE AVWT-272HHFSE	AVWT-272HHFSE AVWT-272HHFSE AVWT-272HHFSE AVWT-272HHFSE
	Power Supply			AC 3Ф 46	OV/60Hz	
Cooling	Capacity	kW kBtu/h	300.5	308.0	312.5	320.0
cooming	Power Input	kW	90.99	93.33	94.63	96.97
	EER	kW/kW	3.30	3.30	3.30	3.30
	Capacity	kW	335.0	345.0	350.0	360.0
Heating		kBtu/h	1139.0	1173.0	1190.0	1224.0
Ŭ	Power Input	kW	94.90	98.57	99.43	102.86
	COP	kW/kW	3.53	3.50	3.52	3.50
Ventilation	Air Flow Rate	m³/min	1346	1346	1400	1400
ventilation	Fan Quantity			:	3	
Sound	Sound Power Level	dB(A)		7	3	
Compressor	Туре	-		Enhanced Vapor In	jection Compressor	
	Compressor Quantity	PC		1	3	
Refrigerant	Туре	-		R41	0A	
	Pre-charged Amount	kg	67.4	67.4	69.2	69.2
Weight	Net Weight	kg	1642	1643	1687	1688
	Gross Weight	kg	1765	1/66	1815	1816
Dimensions	Decking(UvWvD)	mm	1/30x(1350+1600-	1665,1665,700	1/30X(1600+1600+	1665 + 1665 \>700
Cabinet Color		mm	1550x(142011005	lovry	White	100311003/x730
	-	mm		001 y	in 8	
	Gas	in			2	
Ref. Piping		mm		02		
	Liquid	in			1	
Connectable Indoor Units	Quantity	PC		6		
	Hoight Difforces a Datum	m		When the Outdoor Ur	it is Above: 50m(90m*)	
	ODU and IDU	m		When the Outdoor Un	it is Below:40m (90m*)	
Piping Design	Height Difference Between IDUs	m		Maximum Height Difference	of Indoor Units: 15m(30m*)	
	Max. Piping Length	m		1	000	
	Cooling	°C DB		-5'	~52	
Operation Range	Heating	°C WB		-251	16.5	

Notes:

1.Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length: 7.5m, pipe height difference: 0m Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m 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 height difference between ODU&IDU more than 50(40)m, please contact our professional engineer. 5.When the operation temperature is under 48°C~52°C or -25°C~-20°C, please contact our professional engineer.



## **New-efficiency**

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



# Adaptive fan static pressure technology

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



# Extra long pipe design

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

Maximum length of a single pipe: 190m Total length of pipes: 1,000m	Maximum height difference of indoor u 15m(30m)*
Maximum height difference between indoor and outdoor units: when the outdoor unit is above: 50m(90m)*	Maximum length from the first branch pipe t the farthest indoor un 90m
40m(90m)*	
Max. pipe length between ODUs: 10m	

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



	HP		8HP	10HP	12HP			
	Model		AVWT-76U8SNA#C	AVWT-96U8SNA#C	AVWT-114U8SNA#C			
Model	Modules		-		-			
	Power Supply		AC 3Ф 208/230V/60Hz					
	Capacity	kW	22.4	28.0	33.5			
Cooling	Capacity	kBtu/h	76.4	95.5	114.3			
	EER	(Btu/h)/W	4.48	4.03	3.87			
	Conscitu	kW	25.0	31.5	37.5			
Heating	Capacity	kBtu/h	85.3	107.5	128.0			
	СОР	kW/kW	5.00	4.96	4.65			
	MCA	А	30.2	36.7	46.1			
	MOP	А	40	50	60			
Ventilation	Air Flow Rate	m³/h	155	170	175			
Ventilation	Fan Quantity		1	1	1			
Sound	Sound Pressure Level	dB(A)	64	66				
Compressor Type		-		Scroll Compressor				
Compressor	Compressor Quantity	PC	1	1	1			
Туре		-	R410A					
Keingerant	Pre-charged Amount	kg	8.5	9.9	9.9			
Weight	Net Weight	kg	239	240	241			
Weight	Gross Weight	kg	251	252	253			
Dimensions	External(H×W×D)	mm		1730×950×750				
Dimensions	Packing(H×W×D)	mm		1930×1015×790				
Cabinet Color	-			Ivory White				
	Gas	mm	Φ19.05	Ф22.2	Φ25.4			
Rof Diping	005	in.	3/4	7/8	1			
Kell Fibling	Liquid	mm	Ф9.53	Φ9.53	Φ12.7			
	Liquid	in.	3/8	3/8	1/2			
Connectable Indoor Units	Quantity	PC	13	16	19			
	Height Difference	m	W	hen the Outdoor Unit is Above: 50m(90n	n*)			
Dining Design	Between ODU and IDU	m	W	hen the Outdoor Unit is Below:40m (90m	1*)			
Piping Design	Height Difference Between IDUs	m	Maximu	um Height Difference of Indoor Units: 15r	n(30m*)			
	Max. Piping Length	m		165				
Operation Range	Cooling	°C DB		-5~48*				
operation hange	Heating	°C WB	-20~16.5					

Notes

Notes: 1. Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length:7.5m, pipe height difference: 0m. Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m. 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.

The final appearance of outdoor units is subject to the actual products.
 For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than

15m, please contact our professinal engineer. 5. When the cooling operation temperature is over 43°C, please contact our professional engineer.



HP		14HP	16HP	18HP	20HP	22HP	
	Model		AVWT-136U8STA#C	AVWT-154U8STA#C	AVWT-170U8STA#C	AVWT-190U8S1A#C	AVWT-212U8S1A#C
Model	Modules		-	-	-	-	-
	Power Supply			·	AC 3Ф 208/230V/60Hz		L
	Constitu	kW	40.0	45.0	50.0	56.0	61.5
Cooling	Capacity	kBtu/h	136.5	153.5	170.6	191.1	209.8.
	EER	(Btu/h)/W	3.77	3.57	3.48	3.41	3.06
	Constitu	kW	45.0	50.0	56.0	63.0	69.0
Heating	Capacity	kBtu/h	153.5	170.6	191.1	215.0	235.4
	СОР	kW/kW	4.54	4.07	4.01	3.84	3.61
	MCA	А	50.3	55.4	67.2	80.3	85.4
	MOP	А	70	70	90	110	110
Ventilation	Air Flow Rate	m³/h	195	195	240	255	270
Ventilation	Fan Quantity		1	1	1	2	2
Sound	Sound Pressure Level	dB(A)	68 68 69 0				69
Compressor		-		-	Scroll Compressor		·
Compressor	Compressor Quantity	PC	2	2	2	2	2
Pofrigorant	Туре	-	R410A				
Kenigerant	Pre-charged Amount	kg	12.5	12.5	12.5	15.7	16.2
Weight	Net Weight	kg	331	332	333	394	395
in cigire	Gross Weight	kg	353	354	355	415	416
Dimensions	External(H×W×D)	mm		1730×1210×750		1730×13	350×750
Dimensions	Packing(H×W×D)	mm		1930×1275×790		1930×14	420×790
Cabinet Color	-				Ivory White		
	Gas	mm	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Ref Dining		in.	1	1-1/8	1-1/8	1-1/8	1-1/8
Net. Libring	Liquid	mm	Φ12.7	Ф12.7	Φ15.88	Φ15.88	Φ15.88
	Liquid	in.	1/2	1/2	5/8	5/8	5/8
Connectable Indoor Units	Quantity	PC	23	26	26	33	36
	Height Difference	m		When the	Outdoor Unit is Above: 5	0m(90m*)	
Dining Design	Between ODU and IDU	m		When the	Outdoor Unit is Below:40	)m (90m*)	
Libilik nezikij	Height Difference Between IDUs	m		Maximum Heigh	nt Difference of Indoor U	nits: 15m(30m*)	
	Max. Piping Length	m			165		
Operation Range	Cooling	°C DB			-5~48*		
Operation Range	Heating	°C WB			-20~16.5		

Notes

Notes:
 1. Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length:7.5m, pipe height difference: 0m. Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
 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 50/40m(ODU is lower than IDU) or height difference between IDUs more than

15m, please contact our professinal engineer. 5. When the cooling operation temperature is over 43°C, please contact our professional engineer.



	HP		24HP	26HP	28HP	30HP	32HP
-	Model		AVWT-232U8SZA#C	AVWT-250U8SZA#C	AVWT-268U8SZA#C	AVWT-287U8SZA#C	AVWT-306U8SZA#C
Model	Modules		AVWT-96U8SNA#C AVWT-136U8SNA#C	AVWT-114U8SNA#C AVWT-136U8SNA#C	AVWT-114U8SNA#C AVWT-154U8SNA#C	AVWT-96U8SNA#C AVWT-190U8SNA#C	AVWT-114U8SNA#C AVWT-190U8SNA#C
	Power Supply				AC 3Ф 208/230V/60Hz		
		kW	68.0	73.5	78.5	84.0	89.5
Cooling	Capacity	kBtu/h	232.0	250.8	267.8	286.6	305.4
	EER	(Btu/h)/W	3.87	3.81	3.69	3.59	3.57
		kW	76.5	82.5	87.5	94.5	100.5
Heating	Capacity	kBtu/h	261.0	281.5	298.6	322.4	342.9
	COP	kW/kW	4.71	4.59	4.30	4.15	4.11
	MCA	A	87.0	96.4	101.5	117.0	126.4
	MOP	A	120	130	130	160	170
Ventilation	Air Flow Rate	m³/h	365	370	370	425	430
Ventilation	Fan Quantity		2	2	2	3	3
Sound	Sound Pressure Level	dB(A)	69	70	73	73	73
Comproser	Туре -				Scroll Compressor		
Compressor Compressor Quantity		PC	3	3	3	3	3
Defrigerent	Туре	-	R410A				
Reingerant	Pre-charged Amount	kg	22.4	22.4	22.4	25.6	25.6
Weight	Net Weight	kg	571	572	573	634	635
weight	Gross Weight	kg	605	606	607	667	668
Dimensions	External(H×W×D)	mm		1730×(950+1210)×750		1730×(950	+1350)×750
Dimensions	Packing(H×W×D)	mm	-	1930×(1015+1275)×790		1930×(101	5+1420)×790
Cabinet Color	-				Ivory White		
	Gas	mm	Ф28.6	Ф31.75	Φ31.75	Φ31.75	Φ31.75
Rof Diping	000	in.	1-1/8	1-1/4	1-1/4	1-1/4	1-1/4
Ket. Fipling	Linuid	mm	Ф15.88	Φ19.05	Φ19.05	Φ19.05	Φ19.05
	Liquiu	in.	5/8	3/4	3/4	3/4	3/4
Connectable Indoor Units	Quantity	PC	40	43	47	50	53
	Height Difference	m		When the	Outdoor Unit is Above: 5	60m(90m*)	
	Between ODU and IDU	m		When the	Outdoor Unit is Below:40	0m (90m*)	
Piping Design	Height Difference Between IDUs	m		Maximum Heigh	nt Difference of Indoor U	nits: 15m(30m*)	
	Max. Piping Length	m			165		
Operation Pange	Cooling	°C DB			-5~48*		
Operation Range	Heating	°C WB			-20~16.5		

Notes:

Notes: 1. Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length:7.5m, pipe height difference: 0m. Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m. 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.

 The final appearance of outdoor units is subject to the actual products.
 For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professinal engineer. 5. When the cooling operation temperature is over 43°C, please contact our professional engineer.

al luthiain'		Planta		Real Providence of the second se			
	HP		34HP	36HP	38HP		
	Model		AVWT-324U8SZA#C	AVWT-340U8SZA#C	AVWT-364U8SZA#C		
Model	odel Modules		AVWT-154U8SNA#C AVWT-170U8SNA#C	AVWT-170U8SNA#C AVWT-170U8SNA#C	AVWT-154U8SNA#C AVWT-212U8SNA#C		
	Power Supply			AC 3Ф 208/230V/60Hz			
		kW	95	100	106.5		
Cooling	Capacity	kBtu/h	324.1	341.2	363.4		
	EER	(Btu/h)/W	3.52	3.48	3.26		
		kW	106 0	112.0	119.0		
Heating	Capacity	kBtu/h	361.7	382.1	406.0		
	COP	kW/kW	4.04	4.01	3.79		
	MCA	A	122.6	134.4	140.8		
	MOP	A	160	180	180		
Ventilation	Air Flow Rate	m³/h	435	480	465		
Ventilation	Fan Quantity		2	2	3		
Sound	Sound Pressure Level	dB(A)	73	73	73		
-	Туре	-	Scroll Compressor				
Compressor	Compressor Quantity	PC	4	4	4		
	Туре	-		R410A			
Refrigerant	Pre-charged Amount	kg	25.0	25.0	28.7		
144-1-6-6	Net Weight	kg	665	666	727		
weight	Gross Weight	kg	709	710	770		
Dimensions	External(H×W×D)	mm	1730×(1210+	-1210)×750	1730×(1210+1350)×750		
Dimensions	Packing(H×W×D)	mm	1930×(1275+	-1275)×790	1930×(1275+1420)×790		
Cabinet Color	-			Ivory White			
	Gar	mm	Ф38.1	Φ38.1	Ф38.1		
Def Disise	085	in.	1-1/2	1-1/2	1-1/2		
ker. Piping		mm	Ф19.05	Ф19.05	Ф19.05		
	Liquid	in.	3/4	3/4	3/4		
nectable Indoor Units	Quantity	PC	56	59	64		
	Height Difference	m	W	nen the Outdoor Unit is Above: 50m(90m	*)		
	Between ODU and IDU	m	W	nen the Outdoor Unit is Below:40m (90m	*)		
Piping Design	Height Difference Between IDUs	m	Maximu	m Height Difference of Indoor Units: 15m	n(30m*)		
	Max. Piping Length	m		165			
poration Process	Cooling	°C DB		-5~48*			
peration Kange	Heating	°C WB		-20~16.5			

	HP		34HP	36HP	38HP			
	Model		AVW1-324U8SZA#C	AVWT-340U8SZA#C	AVW1-364U8SZA#C			
Model	Modules		AVWT-154U8SNA#C AVWT-170U8SNA#C	AVWT-170U8SNA#C AVWT-170U8SNA#C	AVWT-154U8SNA#C AVWT-212U8SNA#C			
	Power Supply			AC 3Ф 208/230V/60Hz				
Canacity		kW	95	100	106.5			
Cooling	Capacity	kBtu/h	324.1	341.2	363.4			
	EER	(Btu/h)/W	3.52	3.48	3.26			
	Constitut	kW	106 0	112.0	119.0			
Heating	Capacity	kBtu/h	361.7	382.1	406.0			
COP		kW/kW	4.04	4.01	3.79			
	MCA	А	122.6	134.4	140.8			
	MOP	А	160	180	180			
Ventilation	Air Flow Rate	m³/h	435	480	465			
Ventilation	Fan Quantity		2	2	3			
Sound	Sound Pressure Level	dB(A)	73 73		73			
Туре		-		Scroll Compressor				
Compressor	Compressor Quantity	PC	4	4	4			
Defriencest	Туре	-	R410A					
Kerrigerant	Pre-charged Amount	kg	25.0	25.0	28.7			
Weight	Net Weight	kg	665	666	727			
weight	Gross Weight	kg	709	710	770			
Dimensions	External(H×W×D)	mm	1730×(1210+	+1210)×750	1730×(1210+1350)×750			
Dimensions	Packing(H×W×D)	mm	1930×(1275+	+1275)×790	1930×(1275+1420)×790			
Cabinet Color	-			Ivory White				
	Gas	mm	Φ38.1	Φ38.1	Ф38.1			
Def Dining	603	in.	1-1/2	1-1/2	1-1/2			
Kei. Piping	1 Sec. S.d.	mm	Φ19.05	Φ19.05	Φ19.05			
	Liquia	in.	3/4	3/4	3/4			
nnectable Indoor Units	Quantity	PC	56	59	64			
	Height Difference	m	W	hen the Outdoor Unit is Above: 50m(90m	)*)			
	Between ODU and IDU	m	W	nen the Outdoor Unit is Below:40m (90m	*)			
Piping Design	Height Difference Between IDUs	m	Maximu	m Height Difference of Indoor Units: 15m(30m*)				
	Max. Piping Length	m		165				
Operation Pange	Cooling	°C DB		-5~48*				
peration Range	Heating	°C WB		-20~16.5				

Notes

Notes:
 1. Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length:7.5m, pipe height difference: 0m. Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
 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 50/40m(ODU is lower than IDU) or height difference between IDUs more than

15m, please contact our professinal engineer. 5. When the cooling operation temperature is over 43°C, please contact our professional engineer.





	HP		40HP	42HP	44HP			
	Model		AVWT-382U8SZA#C	AVWT-398U8SZA#C	AVWT-420U8SZA#C			
Model	Modules		AVWT-190U8SNA#C AVWT-190U8SNA#C	AVWT-190U8SNA#C AVWT-212U8SNA#C	AVWT-212U8SNA#C AVWT-212U8SNA#C			
	Power Supply			AC 3Φ 208/230V/60Hz				
	Capacity	kW	112	117.5	123			
Cooling	Capacity	kBtu/h	382.1	400.9	419.7			
	EER	(Btu/h)/W	3.41	3.22	306			
	Conscitu	kW	126.0	132.0	138.0			
Heating	Capacity	kBtu/h	429.9	450.4	470.9			
	СОР	kW/kW	3.84	3.72	3.61			
	MCA	А	160.6	165.7	170.8			
	MOP	А	220	220	220			
Ventilation	Air Flow Rate	m³/h	510	525	540			
Ventilation	Fan Quantity		4	4	4			
Sound	Sound Pressure Level	dB(A)	74 74		74			
Type -		-		Scroll Compressor				
Compressor	Compressor Quantity	PC	4	4	4			
Defrierment	Туре	-	R410A					
Kerrigerant	Pre-charged Amount	kg	31.4	31.9	32.4			
Weight	Net Weight	kg	788	789	790			
AAGRIIC -	Gross Weight	kg	830	831	832			
Dimensions	External(H×W×D)	mm		1730×(1350+1350)×750				
Dimensions	Packing(H×W×D)	mm		1930×(1420+1420)×790				
Cabinet Color	-			Ivory White				
	Gas	mm	Ф38.1	Ф38.1	Ф38.1			
Dof Dining	665	in.	1-1/2	1-1/2	1-1/2			
Kei. Piping	thead	mm	Φ19.05	Φ19.05	Φ19.05			
	Liquia	in.	3/4	3/4	3/4			
Connectable Indoor Units	Quantity	PC	64	64	64			
	Height Difference	m	W	hen the Outdoor Unit is Above: 50m(90m	*)			
	Between ODU and IDU	m	W	hen the Outdoor Unit is Below:40m (90m	*)			
Piping Design	Height Difference Between IDUs	m	Maximu	um Height Difference of Indoor Units: 15n	n(30m*)			
	Max. Piping Length	m		165				
Operation Ban	Cooling	°C DB		-5~48*				
Operation Range	Heating	°C WB		-20~16.5				

Notes:

Notes: 1. Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length:7.5m, pipe height difference: 0m. Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m. 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.

The final appearance of outdoor units is subject to the actual products.
 For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than

15m, please contact our professinal engineer. 5. When the cooling operation temperature is over 43°C, please contact our professional engineer.

	HP		46HP	48HP	50HP	52HP	54HP
-	Model		AVWT-438U8SZA#C	AVWT-454U8SZA#C	AVWT-476U8SZA#C	AVWT-494U8SZA#C	AVWT-510U8SZA#C
Model	Modules	HP         66HP         68HP         69HP         50HP         52HP         Avvrt-438U852AIC           Model         AVVT-438U852AIC         AVVT-436U852AIC         AVVT-476U852AIC         A	AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-170U8SNA#C				
	Power Supply				AC 3Ф 208/230V/60Hz		
	Canacity	kW	128.5	133.5	140	145.0	150
Cooling	Capacity	kBtu/h	438.4	455.5	477.7	494.7	511.8
	EER	(Btu/h)/W	3.61	3.57	3.38	3.36	3.48
	Constitu	kW	1435	149.5	156.5	162.5	168.0
Heating	Capacity	kBtu/h	489.6	510.1	534.0	554.5	573.2
	COP	kW/kW	4.18	4.15	3.97	3.95	4.01
	MCA	A	168.7	1805	186.9	198.7	201.6
	MOP	A	220	240	240	260	270
Ventilation	Air Flow Rate	m³/h	610	655	640	685	720
ventilation	Fan Quantity	n Rate         m³/h         660         665         640         685         1           antity         3         3         4	3				
Sound	Sound Pressure Level	dB(A)	75 75		75	75	75
Comproses	Туре	-			Scroll Compressor		
Compressor	Compressor Quantity	PC	5	5	5	5	6
Defiinment	Туре	-			R410A		
Reingerant	Pre-charged Amount	kg	34.9	R410A 34.9 38.6 38.6 907 968 969	37.5		
Weight	Net Weight	kg	906	907	968	138.7       260       685       4       75       5       38.6       969       1024       210+1350)×750       1730x(12       1275+1420)×790       1930x(11)	999
weight	Gross Weight	kg	962	963	1023		1065
Dimensions	External(H×W×D)	mm	1730×(950+12	10+1210)×750	1730×(950+121	0+1350)×750	1730×(1210+1210+1210)×750
Dimensions	Packing(H×W×D)	mm	1930×(1015+12	275+1275)×790	1930×(1015+12	75+1420)×790	1930×(1275+1275+1275)×790
Cabinet Color	-				Ivory White		
	Gas	mm	Φ41.3	Ф41.3	Ф41.3	Ф41.3	Ф41.3
Def Dining	005	in.	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8
Rei. Piping	1 tout d	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Liquid	in.	7/8	4.15         3.97         3.95         4.01           1805         186.9         198.7         201.6           240         240         260         270           655         640         685         720           3         4         4         3           75         75         75         75           Scroll Compressor           Scroll Compressor           Scroll Compressor           5         5         6           R410A         38.6         38.6         37.5           907         968         969         999           963         1023         1024         1065           \$+1210\x750         1730x(950+1210+1350)x750         1730x(120+1210+120)x750           \$+1275\x790         1930x(1015+1275+1420)x790         1930x(1275+1275)x790           Ivory White           \$\Delta + 1.3         \$\Delta + 1.3         \$\Delta + 1.3           \$\Delta + 1.5/8         1-5/8         1-5/8           \$\Delta + 1.5/8         1-5/8         1-5/8           \$\Delta + 2.2         \$\Delta + 2.2         \$\Delta + 2.2           \$18         \$\Text{18         \$\Text{17			
Connectable Indoor Units	Quantity	PC	64	64	64	64	64
	Height Difference	m		When the	Outdoor Unit is Above: 5	0m(90m*)	1
	Between ODU and IDU	m		When the	Outdoor Unit is Below:40	)m (90m*)	
Piping Design	Height Difference Between IDUs	m		Maximum Heigh	t Difference of Indoor Ur	nits: 15m(30m*)	
	Max. Piping Length	m			165		
Operation Range	Cooling	°C DB			-5~48*		
operation Kange	Heating	°C WB			-20~16.5		

Notes

Notes:
 1. Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length:7.5m, pipe height difference: 0m. Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m.
 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.

The fault appearance of outdoor units is subject to the actual products.
 For Max. pipe length more than 165m, height difference between ODU&IDU more than 50/40m(ODU is lower than IDU) or height difference between IDUs more than 15m, please contact our professinal engineer.
 When the cooling operation temperature is over 43°C, please contact our professional engineer.





	HP		68HP	70HP	72HP	74HP	
	Model		AVWT-649U8SZA#C	AVWT-666U8SZA#C	AVWT-688U8SZA#C	AVWT-705U8SZA#C	
Model			AVWT-114U8SNA#C AVWT-154U8SNA#C	AVWT-114U8SNA#C AVWT-170U8SNA#C	AVWT-114U8SNA#C AVWT-154U8SNA#C	AVWT-114U8SNA#C AVWT-170U8SNA#C	
	Modules		AVWT-170U8SNA#C	AVWT-170U8SNA#C	72HP         74HP           AVWT-688U8SZA#C         AVWT-705U8SZA#C           AVWT-114U8SNA#C         AVWT-114USSNA#C           AVWT-1212U8SNA#C         AVWT-1212U8SNA#C           AVWT-212U8SNA#C         AVWT-212U8SNA           AVWT-212U8SNA#C         AVWT-212U8SNA           AVWT-212U8SNA#C         AVWT-212U8SNA           AVWT-212U8SNA#C         AVWT-212U8SNA           AVWT-212U8SNA#C         AVWT-212U8SNA           201.5         206.5           687.5         704.6           3.28         3.27           225.5         231.5           769.4         789.9           3.85         3.84           272.3         284.1           350         370           910         955           6         6           77         77           compressor         7           410A         1363           1363         1364           1439         1440           1730x(950+1210+1350)×750           1930x(1015+1275+1420+1420)×790           Y White         050.8           Q25.4         Q25.4           1         1           64         64	AVWT-212U8SNA#C	
	Power Supply		AVWT-212U8SNA#C	AVWT-212U8SNA#C	AVWT-212U8SNA#C	AVWT-212U8SNA#C	
	Fower Supply		100	AC 54 200/	2007/0012	200 5	
Carlina	Capacity	kW	190	195	201.5	206.5	
Cooling		kBtu/h	648.3	665.3	687.5	/04.6	
	EER	(Btu/h)/W	3.30	3.39	3.28	3.27	
	Capacity	kW	212.5	218.5	225.5	231.5	
Heating		kBtu/h	725.1	745.5 769.4		789.9	
	COP	kW/kW	3.98	3.97	3.85	3.84	
	MCA	A	254.1	265.9	272.3	284.1	
	MOP	A	330	350	350	370	
Ventilation	Air Flow Rate	m³/h	880	925	910	955	
	Fan Quantity		5	5	6	6	
Sound	Sound Pressure Level	dB(A)	77	77	77	77	
Comproscor	Туре	-		Scroll Compressor			
compressor	Compressor Quantity	PC	7	7	7	7	
	Туре	-		R4	10A		
Refrigerant	Pre-charged Amount	kg	51.1	51.1 51.1 54.8		54.8	
Weight	Net Weight	kg	1301	1302	R410A           54.8         54.           1363         136	1364	
weight	Gross Weight	kg	1378	1379	1439	1440	
Dimensione	External(H×W×D)	mm	1730×(950+1210+	+1210+1350)×750	1730×(950+1210-	+1350+1350)×750	
Dimensions	Packing(H×W×D)	mm	1930×(1015+1275	+1275+1420)×790	1930×(1015+1275+1420+1420)×790		
Cabinet Color	-			Ivory	White		
		mm	Φ50.8	Ф50.8	Φ50.8	Ф50.8	
	Gas	in.	2	2	2	2	
Ref. Piping		mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4	
	Liquid	in.	1	1	1	1	
Connectable Indoor Units	Quantity	PC	64	64	64	64	
	Height Difference	m		When the Outdoor Uni	it is Above: 50m(90m*)		
	Between ODU and IDU	m		When the Outdoor Uni	t is Below:40m (90m*)		
Piping Design	Height Difference Between IDUs	m		Maximum Height Difference	of Indoor Units: 15m(30m*)		
	Max. Piping Length	m		- 16	55		
On another Dama	Cooling	°C DB		-5~	48*		
Operation Kange	Heating	°C WB		-20~	201.5         206.5           201.5         206.5           687.5         704.6           3.28         3.27           225.5         231.5           225.5         231.5           225.5         231.5           272.3         284.1           3.85         3.84           277.3         284.1           350         370           910         955           910         955           77         77           1         77           7         7           8         54.8           1363         1364           1439         1440           1330×(950+1210+1350+1350)×750           1330×(1015+125+1420)×790           rory         1330×(950+1210+1350+1350)×750           1330×(1015+125+1420)×790         1440           1330×(950+1210+1350+1350)×750         15           1         1         1           1         64         64           1         1         1           1         64         64           1         1         1           1         64         64 <tr <="" td=""><td></td></tr>		

Notes

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15m, please contact our professinal engineer. 5. When the cooling operation temperature is over 43°C, please contact our professional engineer.

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	HP		56HP	58HP	60HP	62HP	64HP	66HP
	Model		AVWT-534U8SZA#C	AVWT-551U8SZA#C	AVWT-572U8SZA#C	AVWT-590U8SZA#C	AVWT-611U8SZA#C	AVWT-630U8SZA#0
Model	Modules		AVWT-154U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-190U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-190U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-212U8SNA# AVWT-212U8SNA# AVWT-212U8SNA#
	Power Supply				AC 3Φ 208	/230V/60Hz		
	Constitu	kW	156.5	161.5	167.5	173	179	184.5
Cooling	Capacity	kBtu/h	534.0	551.0	571.5	590.3	610.7	629.5
	EER	(Btu/h)/W	3.32	3.31	3.29	3.17	3.16	3.06
		kW	175.0	181.0	188.0	194.0	201.0	207.0
Heating	Capacity	kBtu/h	597.1	617.6	641.5	661.9	685.8	706.3
	COP	kW/kW	3.86	3.85	3.80	3.72	3.68	3.61
	MCA	A	208.0	219.8	232.9	238.0	251.1	256.2
	MOP	А	270	290	310	310	330	330
Ventilation	Air Flow Rate	m³/h	705	750	765	780	795	810
Ventilation	Fan Quantity		4	4	5	5	AVWT-611U8SZA#C           AVWT-611U8SZA#C           AVWT-212U8SNA#C           AVMT-5           3.16           201.0           685.8           3.68           251.1           330           795           6           76           6           48.1           1184           1247           1730x(1350+1350-1350-1350-1350-1350-1350-1350-1350-	6
Sound	Sound Pressure Level	dB(A)	76	76	76	76	76	76
Compressor	Туре	-			Scroll Co	ompressor	04HP           AVWT-611U8SZA#C           AVWT-611U8SZA#C           AVWT-12U8SNA#C           AVWT-212U8SNA#C           G85.8           3.68           251.1           330           795           6           76           6           76           6           776           930x(1420+142           044.5           1-3/4           Ф22.2           7/8           64           m*)           m*(30m*)	
compressor	Compressor Quantity	PC	6	6	6	6		6
Pofrigorant	Туре	-		-	R4	10A	C AVWT-190USSA#C AVWT-190USSA#C C AVWT-190USSA#C AVWT-212USSNA#C AVWT-212USSNA#C AVWT-212USSNA#C 201.0 6610.7 3.16 201.0 685.8 3.68 251.1 330 795 6 76 48.1 1184 1247 1730×(1350+135) 1930×(1420+142) 1730×(1350+135) 1930×(1420+142) 48.1 1730×(1350+135) 1930×(1420+142) 48.1 1730×(1350+135) 1930×(1420+142) 48.1 1730×(1350+135) 1930×(1420+142) 48.1 1730×(1350+135) 1930×(1420+142) 48.1 1730×(1350+135) 1930×(1420+142) 48.1 1730×(1350+135) 1930×(1420+142) 48.1 1730×(1350+135) 1930×(1420+142) 48.1 1730×(1350+135) 1930×(1420+142) 1930×(1420	-
Reingerant	Pre-charged Amount	kg	41.2	41.2	44.4	44.9		48.6
Weight	Net Weight	kg	1061	1061	1122	1123	1184	1185
Weight	Gross Weight	kg	1125	1126	1186	1187	AVWT-611U8SZA#C AVWT-190U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C 610.7 3.16 201.0 685.8 3.68 251.1 330 795 6 76 76 6 76 76 6 76 76 76 76 76 76 76	1248
Dimensions	External(H×W×D)	mm	1730×(1210+1	210+1210)×750	1730×(1210+135	60+1350)×750	1730×(1350+1350	)+1350)×750
Differisions	Packing(H×W×D)	mm	1930×(1275+1	275+1420)×790	1930×(1275+142	6         6         6           110A         44.9         48.1         48.4           1123         1184         118         118           1187         1247         124           50+1350)×750         1730×(1350+1350+1350)×75         20+1420)×790         1930×(1420+1420+1420)×79		0+1420)×790
Cabinet Color	-				Ivory	White		
	Gas	mm	Φ41.3	Φ44.5	Φ44.5	Φ44.5	Φ44.5	Φ44.5
Ref Pining		in.	1-5/8	1-3/4	1-3/4	1-3/4	1-3/4	1-3/4
iter. riping	Liquid	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Elquid	in.	7/8	7/8	7/8	7/8	7/8	7/8
Connectable Indoor Units	Quantity	PC	64	64	64	64	64	64
	Height Difference	m		W	/hen the Outdoor Ur	iit is Above: 50m(90r	m*)	
Pining Decign	Between ODU and IDU	m		W	/hen the Outdoor Un	it is Below:40m (90n	n*)	
Tiping Design	Height Difference Between IDUs	m		Maxim	um Height Differenc	e of Indoor Units: 15	m(30m*)	
	Max. Piping Length	m			1	.65		
Operation Range	Cooling	°C DB			-5^	~48*		
speratornange	Heating	°C WB			-20′	~16.5		



	HP		76HP	78HP	80HP	
	Model		AVWT-722U8SZA#C	AVWT-742U8SZA#C	AVWT-761U8SZA#C	
Model	HP       Model     Model       Model     Modules       Power Supply       Cooling     Capacity       EER       Heating     Capacity       Heating     Capacity       MOP       Kentilation     Air Flow Rate       Ompressor     Type       Ompressor     Type       Ompressor     Corpressor Quantity       Verifigerant     Type       Weight     Gross Weight       Uimensions     External(H×W×D)       Ibinet Color     -       Ref. Piping     Liquid       Ltable Indoor Units     Quantity       ping Design     Height Difference Between ODU and IDU       Height Difference Between IDUs     Max. Piping Length		AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-190U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-170U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	
	Power Supply			AC 3Ф 208/230V/60Hz		
	Constitu	kW	211.5	217.5	223	
Cooling	Capacity	kBtu/h	721.6	742.1	760.9	
-	EER	(Btu/h)/W	3.35	3.33	3.24	
	Constitut	kW	237.0	244.0	250.0	
Heating	Capacity	kBtu/h	808.6	832.5	853.0	
	COP	kW/kW	3.88	3.85	3.78	
	MCA	А	287.0	300.1	305.2	
	MOP	А	380	400	400	
Ventilation	Air Flow Rate	m³/h	990	1,005	1,020	
Ventilation	Fan Quantity		5	6 77 Scroll Compressor		
Sound	Sound Pressure Level	dB(A)	77	77	77	
Comproses	Туре	-		Scroll Compressor		
compressor	Compressor Quantity	PC	8	8	8	
Defiierment	Туре	-		R410A		
Keingerant	Pre-charged Amount	kg	53.7	56.9	57.4	
Weight	Net Weight	kg	1394	1455	1456	
weight	Gross Weight	kg	1481	1541	1542	
Dimensions	External(H×W×D)	mm	1730×(1210+1210+1210+1350)×750	1730×(1210+1210	+1350+1350)×750	
Dimensions	Packing(H×W×D)	mm	1930×(1275+1275+1275+1420)×790	1930×(1275+1275	+1420+1420)×790	
Cabinet Color	-			Ivory White		
	Gas	mm	Φ50.8	Φ50.8	Φ50.8	
Pof Diping	005	in.	2	2	2	
Kel, Fipling	Linuid	mm	Φ25.4	Φ25.4	Φ25.4	
	Liquiu	in.	1	1	1	
Connectable Indoor Units	Quantity	PC	64	64	64	
	Height Difference	m	W	hen the Outdoor Unit is Above: 50m(90n	1*)	
Dising Design	Between ODU and IDU	m	W	hen the Outdoor Unit is Below:40m (90m	*)	
Fibring Design	Height Difference Between IDUs	m	Maximu	Im Height Difference of Indoor Units: 15r	n(30m*)	
	Max. Piping Length	m		165		
Operation Range	Cooling	°C DB		-5~48*		
operation nange	Heating	°C WB		AVWT-212U8SNA#C         AVWT-212U8SNA#C           AC 30 208/230V/60Hz         223           742.1         760.9           3.33         3.24           244.0         250.0           832.5         853.0           3.85         3.78           300.1         305.2           400         400           400         400           1,005         1,020           6         6           77         77           Scroll Compressor         8           8         8           R410A         1542           0         1730×(1210+1210+1350)×750           0         1730×(1210+1210+1350)×750           0         1730×(1210+1210+1350)×750           0         1730×(1210+1210+1350)×750           0         1730×(1210+1210+1350)×750           0         1730×(1210+1210+1350)×750           0         1930×(1275+1425+1420+1420)×790           Ivory White         2           Q55.4         Q25.4           Q25.4         Q25.4           Q25.4         Q25.4           Q25.4         Q25.4           Q25.4         Q25.4           Mben the Outdo		

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	HP		82HP	84HP	86HP	88HP	
	Model		AVWT-782U8SZA#C	AVWT-800U8SZA#C	AVWT-821U8SZA#C	AVWT-840U8SZA#C	
Model Cooling Leating Heating Heating Sound Sound Compressor Compressor Compressor Compressor Compressor Compressor Compressor Compressor Compressor Compressor	Modules		AVWT-170U8SNA#C AVWT-190U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-170U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-190U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C AVWT-212U8SNA#C	
	Power Supply			AC 3Ф 208/	230V/60Hz		
		kW	229	234.5	240.5	246	
Cooling	Capacity	kBtu/h	781.3	800.1	820.6	839.4	
	EER	(Btu/h)/W	3.23	3.14	3.13	3.06	
	Conscitu	kW	257.0	263.0	270.0	276.0	
Heating	Capacity	kBtu/h	876.9	897.4 9		941.7	
	COP	kW/kW	3.75	3.69	3.66	3.61	
	MCA	А	318.3	323.4	336.5	341.6	
	MOP	A	420	420	440	440	
Ventilation	Air Flow Rate	m³/h	1,035	1.050	1,065	1,080	
- Critilation	Fan Quantity		7	7	86HP         8           ISZA#C         AVWT-821U8SZA#C         AVWT- SNA#C         AVWT-190U8SNA#C         AVWT- SNA#C         AVWT- AVWT-212U8SNA#C         AVWT- AVWT- SNA#C         AVWT- AVWT-212U8SNA#C         AVWT- AVWT- SNA#C         AVWT- SNA#C         AV	8	
Sound	Sound Pressure Level	dB(A)	77	77	77	77	
Compressor	Туре	-		Scroll Compressor			
compressor	Compressor Quantity	PC	8	8	8	8	
Defrigerent	Туре	-		R41	LOA		
Keingerant	Pre-charged Amount	kg	60.6	61.1	64.3	64.8	
Weight	Net Weight	kg	1517	1518	10A 64.3 6579 1663 1664	1580	
weight	Gross Weight	kg	1602	1603	1663	1664	
Dimensions	External(H×W×D)	mm	1730×(1210+1350	+1350+1350)×750	1730×(1350+1350	+1350+1350)×750	
Dimensions	Packing(H×W×D)	mm	1930×(1275+1420	+1420+1420)×790	1930×(1420+1420+1420+1420)×790		
Cabinet Color	-			Ivory	White		
	Gas	mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8	
Rof Diping	005	in.	2	2	2	2	
Kel, Fipilig	Liquid	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4	
	Liquiu	in.	1	1	1	1	
Connectable Indoor Units	Quantity	PC	64	64	64	64	
	Height Difference	m		When the Outdoor Uni	t is Above: 50m(90m*)		
Dining Design	Between ODU and IDU	m		When the Outdoor Uni	t is Below:40m (90m*)		
Libilik neziku	Height Difference Between IDUs	m		Maximum Height Difference	of Indoor Units: 15m(30m*)		
	Max. Piping Length	m		16	55		
Operation Bange	Cooling	°C DB		-5~4	48*		
operation hange	Heating	°C WB		-20~	AVW1-212USSNA#C     AVW1-212USS       AVW1-212USSNA#C     AVW1-212USS       240.5     246       820.6     839.4       3.13     3.06       270.0     276.0       921.2     941.7       3.66     3.61       336.5     341.6       440     440       1.065     1,080       8     8       77     77       npressor     8       64.3     64.8       1579     1580       1663     1664       1730×(1350+1350+1350)×750     1930×(1420+1420+1420)×790       White     2     2       025.4     025.4       1     1       64     64       1     1       64     64       1     1       64     64       1     1       64     64       1     1       64     64       1     1       64     64       64     64       64     64       1     1       64     64       1     1       64     64       64     64       64     64		

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 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 50/40m(ODU is lower than IDU) or height difference between IDUs more than

15m, please contact our professinal engineer. 5. When the cooling operation temperature is over 43°C, please contact our professional engineer.



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



#### Application



Adoption of surface water



Adoption of soil source



Cooling tower

## Modular structure, flexible installation

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



Stacked Installation on the Floor

## Long pipe design

Combining water cycling system with refrigerant cycling system, the pipe length of water cycling system is not affected by the scale of building, so the units can be installed close to the A/C area, easily to meet the demand of large-scale and high-rise building. The units adopts two-stage super cooling technology to enhance the cooling capacity and make longer pipes, as well as the longer side pipes of refrigerant. For chiller system, it provides heat or cold water source directly for indoor units, to reduce more power consumption of pump due to long pipes. What's more, the energy of refrigerating medium will be dissipated during transmission.



# Hi-FLEXi W Series Water Source Heat Pump



about 1,000mm

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

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

# Hi-FLEXi W Series Water Source Heat Pump

# e W Hisense M-FLEXI

	HP		3HP	4HP	5HP	6HP	8HP	10HP
	Model		AVWW-28U2SA	AVWW-38U2SA	AVWW-48U2SA	AVWW-54U2SA	AVWW-72U9SC#C	AVWW-96U9SC#C
Model Cooling Heating Sound Compressor Refrigerant Weight Dimensions Cabinet Color Ref. Piping	Modules		-	-	-	-	-	-
	Power Supply			AC 1Ф 22	20V/60Hz		AC 3Ф 208	3/230V/60Hz
	Canacity	kW	8.00	11.20	14.00	15.50	20.2	28.1
Cooling	Capacity	kBtu/h	27.3	38.2	47.8	52.9	69.0	96.0
cooning	EER(Ducted/Non-ducted)	AtPAtPOPPAttract and	12.30/13.40					
	IEER(Ducted/Non-ducted)	(Btu/h)/W	-	-	-	-	BHP           A         AVWW-72U9SC#C         -           A         AC 3Φ 208         20.2           69.0         14.40/17.00         24.30/28.30           22.6         77.0         24.30/28.30           22.6         77.0         4.94/5.70           31.00         40.00         50 / 51           64 / 65         -         -           2         0.11         1000×7           1120×82         -         -           4019.05         3/4         -           4012.7         1/2         -           75.0         17.6         -           17.6         1-21         -	25.20/27.30
	Canaaitu	kW	9.00	12.5	16.00	18.00	Otto           AVWW-72U9SC#4           AVWW-72U9SC#4           Q0.2           69.0           14.40/17.00           24.30/28.30           22.6           77.0           4.94/5.70           31.00           40.00           50/51           64/65           1000           1120           019.05           3/4           012.7           1/2           75.0           17.6           1.0	30.3
Heating	Capacity	kBtu/h	30.7	42.7	54.6	61.4	77.0	103.0
	COP(Ducted/Non-ducted)	kW/kW	5.00	5.21	5.10	5.00	4.94/5.70	5.13/4.70
	MCA	A	-	-	-	-	31.00	31.00
	MOP	A	-	-	-	-	40.00	40.00
Sound	Sound Pressure Level	dB(A)	49	51	51	51	50/51	51/52
Sound	Power	dB(A)	-	-	-	-	64 / 65	65 / 66
Compressor	Туре	-			Scroll C	ompressor		
Defrigerent	Туре	-			R4	410A		
Kenigerani	Pre-charged Amount	kg	-	-	-	-	2.2	2.2
	Net Weight	kg	78	-         -         -         2.2           100         100         100         160           107         107         107         107	.60			
weight	Gross Weight	kg	85	107	107	107	AC 3Φ 208/           20.2           69.0           14.40/17.00           24.30/28.30           22.6           77.0           4.94/5.70           31.00           40.00           50/51           64/65           1120×85           0           1120×85           1120×85           75.0           75.0           17.6           1.21/           611/	.65
Dimensions	External (H*W*D)	mm		980X45	50X930		40.00         40.00           50 / 51         51 / 52           64 / 65         65 / 66           2.2         160           165         1000×780×550           1120×850×600         1120×850×600           40.00         40.00           3/4         7/8	780×550
Dimensions	Packing(H*W*D)	mm			-		1120×	850×600
Cabinet Color	-				Ivory \	White		
	C	mm	Ф15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2
Ref Pining	Gas	in.	5/8	5/8	5/8	5/8	AC 3Φ 208/2300/(4           20.2           69.0           14.40/17.00           22.6           77.0           22.6           77.0           4.94/5.70           50/51           50/51           64/65           64/65           1000×780×550           1120×850×600           1120×850×600           1120×850×600           1120×850×600           1120×850×600           1120×850×600           1120×850×600           75.0           75.0           75.0           17.2           75.0           17.2           611/48	7/8
iter. riping	Linuid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7
	Liquid	in.	3/8	3/8	3/8	3/8	SHP           AVWW-72U9SC#C           -           AC 3Φ 20           20.2           69.0           14.40/17.00           24.30/28.30           22.6           77.0           4.94/5.70           31.00           40.00           50 / 51           64 / 65           -           1000×           1120×           Φ19.05           3/4           Φ12.7           1/2           75.0           17.6           1-2           G1	1/2
Decign Pressure	High	MPa			4.1	15	AVWW-72035C#C         AVWW-72035C#C           AC 3Ф 208/230V/60         20           20.2         2           69.0         9           14.40/17.00         12.3           24.30/28.30         25.2           22.6         3           77.0         14           4.94/5.70         5.1           31.00         3           40.00         44           50/51         51           64/65         66           1120×850×600         1120×850×600           01120×850×600         1120×850×600           3/4         7           3/4         7           012.7         Φ           1/2         3           75.0         1           17.6         2           4.1/2         3	
Design ressure	Low	MPa			2.2	21		
	Water Temp. Range	°C			10~	45		
Water Side Heat Exchange	Water Flow Rate	l/min	30	38	48	53	75.0	105
Ŭ	Water Pressure Drop	kPa	30	30	35	40	24.30/28.30         25.2           1.00         22.6         3           1.4         77.0         1           .00         4.94/5.70         5.1           -         31.00         3           -         40.00         4           51         50/51         5           -         64/65         6           r         -         2.2           .00         160         07           .00         160         07           .00         160         07           .00         160         07           .120×850×600         1120×850×600           .5.88         Φ19.05         Φ           .6/8         3/4         9.53           .012.7         Φ           .3/8         1/2           .53         75.0           .40         17.6           .1-21/32         G1 1/48	24.6
	Water Inlet/Outlet Pipline Diameter	in.			-		1-2	1/32
Water Piping	Thread of Connector			G	18		G1	1/4B
	Drain Pipe/Hole	mm			18	.0		
Water Side Bearing Pressure Capacity		kgf/cm <sup>3</sup>			20	.0		

#### Notes:

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

The sound pressure is based on the following conditions.
 1m from the unit service cover surface, and 1.5m from floor level.

The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field. 3. When unit is used out of the allowable range of water temperature, the unit will not start normally and will show water temperature alarm. In cooling operation, unit operates continuously in a range of 15<sup>-x457</sup>C.
 It is the thread of connection joint for heat source inlet/outlet of condenser unit.
 For AHRI rating, refer to the AHRI website http://www.ahridirectory.org.

	HP		16HP	18HP	20HP	24HP	26HP	28HP	30HP
	Model		AVWW-144U9SC#C	AVWW-168U9SC#C	AVWW-192U9SC#C	AVWW-216U9SC#C	AVWW-240U9SC#C	AVWW-264U9SC#C	AVWW-288U9SC#C
Model	Modules		AVWW-72U9SC#C AVWW-72U9SC#C	AVWW-72U9SC#C AVWW-96U9SC#C	AVWW-96U9SC#C AVWW-96U9SC#C	24HP         26HP         28HP           AVWW-216U9SCHC         AVWW-240U9SCHC         AVWW-26U9SCHC         AVWW-26U9SCHC         AV           AVWW-72U9SCHC         AVWW-72U9SCHC         AVWW-72U9SCHC         AVWW-72U9SCHC         AV           AVWW-72U9SCHC         AVWW-72U9SCHC         AVWW-72U9SCHC         AVWW-96U9SCHC         AV           20 208/230V/60Hz         E         E         E         E           60.4         68.6         76.2         E         E           206.0         234.0         2660.0         I         E           206.0         234.0         2660.0         I         E           206.0         234.0         2660.0         I	AVWW-96U9SC#C AVWW-96U9SC#C AVWW-96U9SC#C		
	Power Supply				A	C 3Ф 208/230V/6	OHz		
	Capacity	kW	42.2	48.1	56.3	60.4	68.6	76.2	84.4
Cooling	Capacity	kBtu/h	144.0	164.0	192.0	206.0	234.0	28HP           AWW-264U9SC#C           AWW-72U9SC#C           AWW-96U9SC#C           AWH           AWH           AWH           AWH           AWH	288.0
Cooling	EER(Ducted/Non-ducted)	(Btu/h)/W	13.00/14.95	11.80/12.80	11.10/11.20	12.30/12.50	11.40/11.40	11.60/11.40	10.10/10.10
	IEER(Ducted/Non-ducted)	(Btu/h)/W	23.80/25.80	22.60/24.40	21.40/23.60	22.60/22.50	21.40/21.40	21.60/21.40	19.60/19.40
	Constitu	kW	45.1	52.8	60.4	67.4	75.0	82.7	90.3
Capacity         KW           Heating         Capacity         kBtu//           COP(Ducted/Non-ducted)         kW/kV           MCA         A           MOP         A           Sound         Sound Pressure Level         dB(A)           Power         dB(A)           Compressor         Type         -           Refrigerant         Pre-charged Amount         kg           Weight         Gross Weight         kg           Dimensions         External (H*W*D)         mm	kBtu/h	154.0	180.0	206.0	230.0	256.0	282.0	308.0	
	COP(Ducted/Non-ducted)	kW/kW	5.02/5.34	4.81/5.07	4.47/5.00	4.73/5.14	4.53/4.94	28HP           AVWW-264U9SCHC         ////////////////////////////////////	4.24/4.69
	MCA		62.00	62.00	62.00	93.0	93.0	93.0	93.0
	MOP	A	80.00	80.00	80.00	120.0	120.0	120.0	120.0
Sound	Sound Pressure Level	dB(A)	52 / 53	52 / 53	53 / 54	55/56	55/56	56/57	56/57
Sound	Power	dB(A)	66 / 67	66 / 67	67 / 68	69/70	69/70	28HP           AVWW-264USSCHC           AVWW-724USSCHC           AVWW-72USSCHC           AVWW-72USSCHC           AVWW-72USSCHC           AVWW-96USSCHC           AVWW-96USSCHC           I11.60/11.40           21.60/21.40           82.7           282.0           4.70/4.81           93.0           120.0           56/57           70/71           +2.2+2.2           +160+160           +165+165           +780+780)×550           +x850+850)×600           Φ31.75           1-1/4           Φ19.05           3/4	70/71
Compressor	Туре	-	Scroll Compressor						
Refrigerant	Туре	-				R410A			
Retrigerant	Pre-charged Amount	kg		2.2+2.2			2.2+2	28HP         30           AVWW-264U9SCHC         AVWW-26           AVWW-72U9SCHC         AVWW-9           AVWW-96U9SCHC         AVWW-9           76.2         84           260.0         28           11.60/11.40         10.10           21.60/21.40         19.60           82.7         90           282.0         300           4.70/4.81         4.24           93.0         93           120.0         121           56/57         56           70/71         70           .2+2.2         50+160           55+165         80+780)×550           50+850)×600         50+850)           50+850)×600         41           019.05         Φ1           3/4         3           2285         3           22.3         24	
	Net Weight	kg		160+160			160+16	28HP AVWV-264095CHC AVWV-72095CHC AVWV-96095CHC AVWV-96095CHC 76.2 260.0 11.60/11.40 21.60/21.40 82.7 282.0 4.70/4.81 93.0 120.0 56/57 70/71 22.2 60+160 65+165 80+780)×550 500+850)×600 4.70/4.81 93.0 120.0 56/57 70/71 3.4 4.70/4.81 93.0 120.0 56/57 1.1/4 019.05 3./4 2.85 22.3 4.70/4.81 2.85 2.2.3 4.70/4.81 4.70	
Weight	Gross Weight	kg		165+165			165+16		
Dimonsions	External (H*W*D)	mm	1	000×(780+780)×5	50	1000×(780+780+780)×550			
Dimensions	Packing(H*W*D)	mm	1	120×(850+850)×6	00		1120×(850+8	28HP           995CHC         AVWW-264U9SCHC           995CHC         AVWW-264U9SCHC           995CHC         AVWW-96U9SCHC           995CHC         AVWW-96U9SCHC           140         11.60/11.40           140         21.60/21.40           82.7         282.0           .94         4.70/4.81           93.0         120.0           6         56/57           0         76.7           2.2+2.2+2.2         160+160           165+165+165         (780+780)×550           (850+850+850)×600         75           9         3/4           -11/4         25           9         22.3	
Cabinet Color	-					Ivory White	R410A     2.2+2.2+2.2       160+160+160       165+165+165       1000x(780+780+780)×550       1120x(850+850+850)×600       Ivory White       028.6     031.75     031.75     031.75		
		mm	Ф28.6	Ф28.6	Ф28.6	Ф28.6	Ф31.75	Ф31.75	Ф31.75
Rof Dining	Gas	in.	1-1/8	1-1/8	1-1/8	1-1/8	1-1/4	28HP           AVWW-26JUSSCHC           AVWW-26JUSSCHC           AVWW-72USSCHC           AVWW-26JUSSCHC           76.2           260.0           11.60/11.40           21.60/21.40           82.7           282.0           4.70/4.81           93.0           120.0           56/57           70/71           +2.2           >>1660           54/550           0+780)×550           0+850)×600           Ф31.75           1-1/4           Ф19.05           3/4           285           22.3	1-1/4
Kel. Fipling		mm	Ф15.88	Φ15.88	Ф15.88	Φ19.05	HC         AVWV-240J9SCHC         AVWV-260J9SCHC         AVWV-260J9SCHC           MC         AVWV-72U9SCHC         AVWV-72U9SCHC         AVWV-72U9SCHC         AVWV-72U9SCHC           AVWV-72U9SCHC         AVWV-96U9SCHC         AVWV-96U9SCHC         AVWV           AVWV-96U9SCHC         AVWV-96U9SCHC         AVWV-96U9SCHC         AVWV           AVWV-96U9SCHC         AVWV-96U9SCHC         AVWV-96U9SCHC         AVWV           AVWV-96U9SCHC         AVWV-96U9SCHC         AVWV         AVWV-96U9SCHC         AVWV           Q         234.0         2660.0         Z         AVWV         AVWV-96U9SCHC         AVWV           Q         11.40/11.40         11.60/11.40         10.1         10.1         10.1         10.1           Q         21.40/21.40         21.60/21.40         19.4         4.1         1	Φ19.05	
	Liquid	in.	5/8	5/8	5/8	3/4	3/4	28HP AWW-264U95CHC AWW-72U95CHC AWW-96U95CHC 776.2 260.0 11.60/11.40 21.60/21.40 82.7 282.0 4.70/4.81 93.0 120.0 56/57 70/71 222.0 120.0 56/57 70/71 224.2.2 0+160 55+165 30+780)×550 50+850)×600 60+850)×500 50+850 22.3	3/4
Design Pressure	High	MPa				4.15			
Design Pressure	Low	MPa				2.21			
	Water Temp. Range	°C				10~45		165+165 780+780)×550 850+850)×600 031.75 1-1/4 Φ19.05 3/4 285	
Water Side Heat Exchange	Water Flow Rate	l/min	150	180	210	225	255	285	315
	Water Pressure Drop	kPa	17.6	21.1	24.6	17.6	19.9	22.3	24.6
	Water Inlet/Outlet Pipline Diameter	in.				1-21/32			
Water Piping	Thread of Connector					G1 1/4B			
	Drain Pipe/Hole	mm				18.0		28HP         28HP           AWW-264U9SCHC         AWW           AWW-7209SCHC         AWW           AWW-7209SCHC         AWW           AWW-96U9SCHC         AWW           AWW-96U9SCHC         AWW           AWW-96U9SCHC         AWW           I11.60/11.40         IC           282.0         I           4.70/4.81         4           93.0         I           56/57         I           70/71         I           2.2+2.2         I           160+160         I           165+165         I           70/71         I           2.2+2.2         I           160+160         I           165+165         I           700/71         I           Ø31.75         I           1-1/4         I           Ø19.05         I           3/4         I	
Water Side Bearing Pressure Capacity		kgf/cm <sup>3</sup>				20.0			

Notes:

1. Rated capacity and efficiency is certified under AHRI Standard 1230, "Performance Rating of Variable Refrigerant Flow (VRF) Multi-Split Air Conditioning and Heat Pump Equipment" The sound pressure is based on the following conditions.
 1m from the unit service cover surface, and 1.5m from floor level.

The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field. 3. When unit is used out of the allowable range of water temperature, the unit will not start normally and will show water temperature alarm. In cooling operation, unit operates continuously a range of 15~45°C.
 It is the thread of connection joint for heat source inlet/outlet of condenser unit.
 For AHRI rating, refer to the AHRI website http://www.ahridirectory.org.

# Hi-FLEXi W Series Water Source Heat Pump





#### Insect protection design

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



## Flexible refrigerant piping work

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

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

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

Max. Height difference between indoor units: \*H3

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

\*Note: If you have any questions, please contact technical enginee

P	ower supply	AC 1Ф 220V-240V/60Hz	AC 1Ф 220V/60Hz	АС 3Ф 208/230V/60Hz	
	HP	3/4/5	4/5/6	8/10/12	
	Picture				
Tota	l piping length-L1	30m	120m	250m	
longe	st length actual-L2	25m	75m	100m	
Longest len	gth after first branch-L3	10m	30m	40m	
Level difference	Outdoor unit is higher-H1	20m	30m	50m	
and outdoor unit up	Outdoor unit is lower-H2	20m	30m	40m	
Level differen	ce between indoor unit H3	3.5m	10m	15m	





# New refrigerant piping connection with flare-nut branch pipe

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



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



#### Wide Operation Range

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



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



HP			3HP	4HP	5HP	4HP	5HP	6HP	8HP	10HP	12HP	
	Model		AVW- 28HJFH	AVW- 34HJFH	AVW- 43HJFH	AVW- 38HJFH	AVW- 48HJFH	AVW- 54HJFH	AVW- 76HFFH	AVW- 96HFFH	AVW- 114HFFH	
	Power Supply		AC 10	⊅ 220V-240V/	60Hz	A	C 1Ф 220V/60	IHz	AC 3Φ	208/230V/6	50Hz	
	Capacity	kW	8.0	10.0	12.5	11.2	14.0	15.5	22.4	28.0	33.5	
Cooling		kBtu/h	27.3	34.1	42.7	38.2	47.8	52.9	76.5	95.6	114.0	
	EER	(Btu/h)/W	4.15	4.27	4.19	4.31	4.05	3.68	3.56	3.37	3.13	
		kW	9.5	11.2	14.0	12.5	16.0	18.0	25.0	31.5	37.5	
Heating	Capacity	kBtu/h	32.4	38.2	47.8	42.7	54.6	61.4	85.3	107.5	128.0	
-	COP	kW/kW	4.01	3.72	3.37	4.50	4.31	4.03	4.24	JUHP           JUHP           >96HFFH           28.0           95.6           3.37           31.5           107.5           4.04           34.0           45.0           150.0           2           56/58           168           1806×1185×53           1806×1185×53           100×1100×35           100×1100×35           100×1100×35           100×1100×35           100×1100×35           100×1100×35           100×1100×35           100×1100×35           100×1100×35           100×1100×35           100×1100×35           100×1100×35           100×1100×35           010×10×1100×12           100           50.0/40.0*2           15.0           100.0	3.79	
	MCA	A	A 19.5 27.5 31.5 26.0 34.0 44.0		44.0							
	MOP	A	40.0	40.0	50.0	-	-	35.0 45.0 60.0		60.0		
Ventilation	Air Flow Rate	m³/min	46.5	69.0	78.0	90.0	90.0	100.0	121.0	150.0	163.0	
, critilation	Fan Quantity		1	1	1	-	-	-	2	2	2	
Sound	Sound Pressure Level	dB(A)	50/52	53/55	54/57	50/52	52/54	53/55	53/55	56/58	56/61	
	Туре	-			Rotary Co	mpressor			Scr	oll Compres	npressor	
Compressor	Compressor Quantity	PC					1			10HP           AWW-           96HFFH           30 208/230V/6           28.0           95.6           3.37           31.5           107.5           4.04           34.0           4.04           34.0           4.04           34.0           4.04           34.0           4.04           34.0           45.0           2           50/58           Scroll Compress           1650×1100×35           188           1650×1100×35           180<1185×53		
Refrigerant	Туре	-					R410A			10HP           AVW- 96HFFH           228.0           95.6           3.37           31.5           107.5           4.04           34.0           45.0           150.0           2           5.5           168           1806×1185×53           406×1185×53           1806×1185×53           100           50.0/40.0°2           15.0           100           50.0/40.0°2           15.0           100.0		
	Pre-charged Amount	kg	2.5	2.8	2.8	-	-	-	5.0	5.5	6.5	
147-1-64	Net Weight	kg	65	73	78	93	95	97	162	168	171	
vveignt	Gross Weight	kg	72	81	86	111	111	111	185	188	189	
Dimensions	External (H*W*D)	mm		800×950×370	)		1380×950×370	)	SHP         10HP           AVW- 76HTFH         ACW- 96HTFH           AC 3→ 208/230V/61           22.4         28.0           76.5         95.6           3.56         3.37           25.0         31.5           85.3         107.5           4.24         4.04           26.0         34.0           35.0         45.0           121.0         150.0           2         2           53/55         56/58           Scroll Compress           5.0         5.5           162         168           185         188           1650×1100×35           185         188           1650×1100×35           3/4         7/8           Ф9.53         Ф12.7           3/8         1/2           10         10           50.0/40.0° <sup>2</sup> 15.0           3/8         1/2           100.0         100.0	90		
Dimensions	Packing(H*W*D)	mm		930×1020×46	0	1	1520×1025×46	0		30		
Cabinet Color	-						Ivory White					
	Gas	mm	Ф15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2	Φ25.4	
	Gas	in.	5/8	5/8	5/8	5/8	5/8	5/8	3/4	7/8	1/1	
Ret. Piping	Linuid	mm	Φ9.53	Φ9.53	Φ9.53	Ф9.53	Φ9.53	Φ9.53	Ф9.53	Ф12.7	Φ12.7	
	Liquid	in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2	
Connectable Indoor Units	Quantity	PC	5	6	8	9	11	11	10	10	10	
	Height Difference Between ODU and IDU	m		20.0			-			28.0         95.6           95.6         3.37           31.5         1           107.5         1           4.04         1           45.0         1           45.0         1           55.5         1           55.5         168           180         1185×530           180         1185×530           100.5         1100.390           1012.7         1           4012.7         1           10         50.0/40.0*2           50.0/40.0*2         15.0           100.0         100.0	2	
Piping Design	Height Difference Between IDUs	m	2.0	2.0	3.5		-			15.0		
	Max. Piping Length	m	25.0	25.0	50.0		-			100.0		
	Cooling	°C DB					-5~46					
Operation Kange	Heating	°C WB		-15~15.5			-20~15.5		3.56         3.37           3.50         31.5           25.0         31.5           4.24         4.04           26.0         34.0           35.0         45.0           35.0         45.0           121.0         150.0           2         2           53/55         56/58           Score         56/58           5.0         5.5           162         168           185         188           185         188           185         188           919.05         Ф22.2           3/4         7/8           10         10           3/8         1/2           10         10           5.0.0/40.0*2			

Notes: 3-6HP

Notes: 3-6HP 1.Rated cooling capacity and rated heating capacity are tested in the following conditions: Cooling conditions: indoor air inlet temperature: 26.7°C DB 19.4°C WB, Outdoor air inlet temperature: 35°C DB. Heating conditions: Indoor air inlet temperature: 21.1°C DB, Outdoor air inlet temperature: 8.3°C DB 6.1°C WB. Low Temp. Heating Conditions: Outdoor air inlet temperature: 8.3°C, WB -9.4°C. 2.The sound pressure level is based on following conditions: 1.5m beneath the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field

field. 3.\*1 the data is tested under AHRI Standard connecting with non-ducted IDUs.

# Hi-FLEXi H Series Heat Pump

Notes: 8/10/12HP
 A This see the second based of

A The cooling and heating performances are the values when combined with our specified indoor units. Cooling operation conditions: Indoor air inlet temperature: 27°C DB/19°C WB, Outdoor air inlet temperature: 35°C DB, Piping length: 7.5m piping lit:0m. Heating operation conditions: Indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C

Heating operation conditions: indoor air inter temperature: 20 C DB, Outdoor air inter temperature: 20 DB 6°C WB, Piping length: 7.5m piping lit: 0m. 5.The sound pressure is based on the following conditions: 1 meter from the unit service cover surface, and 1.5m from floor level.

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

consideration in the field.  $6.^{*2}$  when the outdoor unit is above: 50m when the outdoor unit is below: 40m.



4-way Cassette Type

Mini 4-way Cassette Type

**Ceiling Ducted Type** 

1-way Cassette Type

2-way Cassette Type

**Console Type** 

Wall Mounted Type

Ceiling & Floor Type

**Floor Concealed Type** 

All Fresh Air Indoor Unit

**Heat Recovery Ventilator** 

**AHU Connection Kit** 

#### **Installation & Maintenance**



#### 1200m condensate pump

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



#### **Self-Diagnosis**

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

#### Compact size



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

# Easy cleaning

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



<u>}</u>

#### Large capacity range

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

#### **Special Function**



## Auto restart mode after any involuntary power cut off.

Indoor units with Auto Restart Function ,automatically restarts in default mode or restoring to the previous



Low temperature cooling

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



Wireless receiver Indoor units compatible to an optional wireless receiver to enable remote control when an wireless

control is not the standard controller of the unit.



#### Humidity sensor (optional)

Hi-Motion (optional)

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



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



# **Functions & Accessories**

#### **Basic Function**



Remote control

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



Silent operation

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



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



#### Swing louver

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



Fan speed

Selectable fan speeds are available.



#### Auto fan speed

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

#### **Air Quality**



#### Fresh air introduction

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



#### Standard filter included

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



#### **Optional filter**

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

# 4-way Cassette Type Mini 4-way Cassette Type



#### **Independent louvers control**

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





#### Fresh air intake

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



#### Humidity sensor(optional)

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

#### Motion sensor (optional)

The indoor unit will automatically set through Motion Sensor.

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

#### Standard equipped drain pump

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

#### Breeze mode

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





# 4-Way Cassette Type



	Model		AVC-05HJFA	AVC-07HJFA	AVC-09HJFA	AVC-12HJFA	AVC-15HJFA	AVC-17HJFA	AVC-19HJFA		
	Power Supply				A	C 1Ф 220~240V/60⊦	łz				
		kW	1.5	2.2	2.8	3.6	4.5	5.0	5.6		
	Model         AVC-05HIFA         AVC-07HIFA         AVC-09HIFA         AVC-12HIFA         AVC-12HIFA         AVC-17HIFA         AVC-17HIFA           Power Supply	19,040									
Capacity		kW	2.0	2.5	3.3	4.2	5.0	5.6	6.3		
	Heating	Btu/h	6,800	8,500	11,220	14,280	17,000	19,040	21,420		
D	Cooling	W	14	14	14	16	22	30	40		
Power Input	Heating	W	14	14	14	16	22	30	40		
Sound	d Pressure	dB(A)	30/29/28/26	30/29/28/26	32/30/28/26	34/32/29/26	38/36/31/28	42/39/36/31	45/42/38/34		
Airflow Rate		L/s	119/108/103/93	119/108/103/93	131/119/108/97	136/119/108/97	156/146/118/111	183/158/146/118	208/181/156/133		
	Connection Type	-			Flare-nu	Connection(With Fl	are Nuts)	AVC-17HJFA 5.0 17,000 5.6 19,040 30 42/39/36/31 183/158/146/11 06.35 1/4 012.7 1/2 15.8 18.6 18.6 4 15.8 18.6 2.7 4.5			
		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Ф6.35		
Disiss	Liquid	in.	1/4	1/4	1/4	1/4	1/4	1/4	1/4		
Piping	_	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Ф12.7		
	Gas	in.	1/2	1/2	1/2	1/2	1/2	1/2	1/2		
	Condensate Drain	mm	0.D.32								
	Net Weight	kg	14.5	14.5	14.8	14.8	15.8	15.8	15.8		
Weight	Gross Weight	kg	17.3	17.3	17.6	17.6	18.6	18.6	18.6		
Dimensions	External (H×W×D)	mm				215×570×570					
Dimensions	Packaging (H×W×D)	mm				292×668×730					
	Model	-	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK	HPE-D-NK		
	Panel Colour	-				Neutral White					
Power Supply         AC 10         AC 10         AC 10         AC 10         AC 10         AC 10           Capacity         Cooling         KW         1.5         2.2         2.8         3.6         4.5           Power Supply         KW         1.0         7.480         9.520         12.240         15.300           Power Input         Heating         KW         2.0         2.5         3.3         4.2         5.0           Power Input         Cooling         W         14         14         14         16         22           Sound Pressure         dB(A)         30/29/28/26         30/29/28/26         32/30/28/26         34/32/29/26         38/36/31/28           AiriFlow Rate         L/s         119/108/103/93         131/19/108/97         136/119/108/97         156/146/118/111           Figure         Math         1/4         1/4         1/4         1/4         1/4           Piping         Connection Type         -         -         Filter-nit         Filter-nit         Filter-nit         Filter-nit           Gas         Liquid         in         1/2         1/2         1/2         1/2         1/2           Piping         Connection Type         rm <td colspan="4"></td>											
	Packaging Dimensions (H×W×D)	mm				115×680×690					
	Net Weight	kg	2.7	2.7	2.7	2.7	2.7	2.7	2.7		
	Gross Weight	kg	4.5	4.5	4.5	4.5	4.5	4.5	4.5		

#### NOTES:

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

	Model		AVBC-09 HJFKA	AVBC-12 HJFKA	AVBC-15 HJFKA	AVBC-19 HJFKA	AVBC-22 HJFKA	AVBC-24 HJFKA	AVBC-27 HJFKA	AVBC-30 HJFKA	AVBC-38 HJFKA	AVBC-48 HJFKA	AVBC-54 HJFKA
	Power Supply						AC 1	Ф 220~240V/	60Hz				
	Cooling	kW	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0
Capacity	Cooling	Btu/h	9,600	12,300	15,400	19,100	21,500	24,200	27,300	30,700	38,200	47,800	54,600
Capacity	Li sulla s	kW	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0
	Heating	Btu/h	9,900	13,600	17,100	21,500	24,200	27,300	30,700	34,100	42,700	54,600	61,400
D	Cooling	W	14	24	24	34	54	64	54	54	124	124	124
Power Input	Heating	W	14	24	24	34	54	64	54	54	124	124	124
<b>C</b>		10(4)	30/28/28/	32/29/29/	33/31/29/	34/31/30/	36/33/32/	36/33/32/	37/36/35/	37/36/35/	11.2         14.0         16.0           38,200         47,800         54,600           12.5         16.0         18.0           42,700         54,600         61,400           124         124         124           124         124         124           42/40/38/         46/44/40/         46/44/4           36/34/33         38/36/34         40/38/3           617/500/         617/558/         617/56           457/413/         493/453/         512/48           373/327         403/373         427/39           Ф9.53         Ф9.53         Ф9.53           3/8         3/8         3/8           Ф15.88         Ф15.88         Ф15.88           5/8         5/8         5/8           226         26         26           31         31         31           288×840×840         342×945×945         HP-G-NK	46/44/41/	
Soun	a Pressure	dB(A)	27/26/26	28/27/26	29/27/26	28/28/26	31/29/28	31/29/28	33/31/30	33/31/30	36/34/33	38/36/34	40/38/36
			250/223/	283/233/	350/267/	367/292/	433/333/	450/350/	450/367/	450/383/	617/500/	617/558/	617/567/
Airf	low Rate	L/s	200/180/	213/197/	248/227/	265/258/	305/283/	318/300/	338/312/	345/327/	457/413/	493/453/	512/482/
			167/147	180/152	212/187	227/208	252/217/	272/245/	280/257	295/268/	373/327	403/373	427/397/
	Connection Type	-					Flare-nut Co	nnection(Wit	h Flare Nuts)				
		mm	Ф6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	FKA         HJFKA           1.2         14.0           ,200         47,800           2.5         16.0           2.5         16.0           2.700         54,600           2.4         124           2.4         124           2.4         124           40/38/         46/44/40/           38/36/34         4/3/33           /500/         617/558/           /413/         493/453/           /3/327         403/373           9.53         Ф9.53           9.53         Ф9.53           8/8         5/8           5/8         Φ15.88           5/8         5/8           226         226           226         226           226         226           228         22           22×945×945           G-NK         HP-G-NK           5.7         5.7           8         8	Φ9.53
Diping	Liquid	in.	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
Fibilit		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Φ15.88	Φ15.88
	Gas	in.	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain	mm						0.D.32					
	Net Weight	kg	20	20	21	21	23	23	26	26	26	26	26
Weight	Gross Weight	kg	24	24	25	25	27	27	31	31	31	31	31
Dimensions	External (H×W×D)	mm			238	×840×840					288×840×	840	
Dimensions	Packaging (H×W×D)	mm			292	×945×945					342×945×	945	
	Model	-	HP-G-NK	HP-G-NK	HP-G-NK								
	Panel Colour	-						Neutral White	e				
Panel	Body Dimensions (H×W×D)	mm						47×950×950	)				
Panel	Packaging Dimensions (H×W×D)	mm					1	05×1014×10	14				
	Net Weight	kg	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
_	Gross Weight	kg	8	8	8	8	8	8	8	8	8	8	8

#### NOTES:

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

# Mini 4-Way Cassette Type

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB.

Outdoor Air Inlet Temperature: 7°C DB, 6°C WB 2.The sound pressure level is based on the following conditions: 1.5m beneath the unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

Heating Operation Conditions Heating Operation Conditions Indoor Air Inlet Temperature: 20°C DB. Outdoor Air Inlet Temperature: 7°C DB, 6°C WB 2.The sound pressure level is based on the following conditions: 1.5m beneath the unit. The above data was measured in an anechoic chamber so that the reflected sound the old heat heat is in the field of should be taken into consideration in the field.

# Ceiling Ducted Type



#### Adjustable static pressure

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

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



#### **Flexible installation**

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

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



#### **3D-airflow**

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

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

#### **Enjoy comfortable**

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



#### Standard equipped drain pump

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



NOTE: Only for DC Low-height

#### Various device connection

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



# DC Low-height



	Model		AVE-05 HJFDL	AVE-07 HJFDL	AVE-09 HJFDL	AVE-12 HJFDL	AVE-15 HJFDL	AVE-17 HJFDL	AVE-19 HJFDL	AVE-22 HJFDL	AVE-24 HJFDL
	Power Supply					AC 1	LФ 220V~240V/	60Hz			
		kW	1.7	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
Connaite	Cooling	Btu/h	5,800	7,500	9,600	12,300	15,300	HJFDL         HJFDL         HJFDL           240V/60Hz           240V/60Hz           25.0         5.6         6.3           0         17,100         19,100         21,500           0         17,100         19,100         21,500           0         19,100         21,500         24,200           60         60         90         30/36/35/           23         30/26/23         28/25/23         33/31/24           157/         200/180/157/         225/208/187         300/268/23           /92         135/113/92         167/147/128         205/175/14          30)	21,500	24,200	
Capacity		kW	1.9	2.5	3.2	4.0	5.0	5.6	6.3	7.1	8.0
	Heating	Btu/h	6,500	8,500	11,300	13,600	17,100	19,100	21,500	24,200	27,300
Devues la sut	Cooling	w	30	30	50	50	60	60	60	90	90
Power Input	Heating	W	30	30	50	50	60	60	60	90	90
60	und Drossuro	dD(A)	28/27/26/	28/27/26/	35/32/32/	35/32/32/	35/32/32/	35/32/32/	35/32/30/	38/36/35/	38/36/35/
30		UD(A)	24/23/21	24/23/21	30/26/23	30/26/23	30/26/23	30/26/23	28/25/23	HJFDL           6.3           21,500           7.1           24,200           90           38/36/35/           33/31/24           300/268/238           205/175/145           4           0           90           33/31/24           300/268/238           205/175/145           3/8           5/8           5/8           24           29           192×1180×447           270×1406×574	33/31/24
		1/5	117/108/102/	117/108/102/	150/135/122/	150/135/122/	200/180/157/	200/180/157/	225/208/187	300/268/238	300/268/238
Д	artlow Rate	L/S	95/88/80	95/88/80	112/98/87	112/98/87	135/113/92	135/113/92	167/147/128	6.3           21,500           7.1           24,200           90           38/36/35/           33/31/24           7           300/268/238           205/175/145           7           0           9           9           9           9           1           300/268/238           205/175/145           1           9           9           9           9           9           9           1           1           1           1           1           1           1           1           1           1           1           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2 <td>205/175/145</td>	205/175/145
Extern	al Static Pressure	Pa					10(0-10-30)				-
	Connection Type	-				Flare-nut C	Connection(With	Flare Nuts)			
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53					
Disiss	Liquid	in.	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3/8	3/8
Piping	Car	mm	Φ 12.7	Φ 15.88	Φ 15.88	Φ 15.88					
	Gas	in.	1/2	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8
	Condensate Drain	mm					O.D.32			NFDL         N           6.3         7           21,500         24           7.1         8           24,200         27           90         9           90         9           38/36/35/         38/3           33/31/24         33/3           300/268/238         300/2           205/175/145         205/1           0         9.53         0           3/8         3           3/8         9           3/8         5           24         2           24         2           24         2           24         2           24         2           29         2           192×1180×447         2	
Woight	Net Weight	kg	16	16	17	17	20	20	24	24	24
weight	Gross Weight	kg	19	19	20	20	24	24	5.0         5.6         6.3           100         19,100         21,500           5.6         6.3         7.1           100         21,500         24,200           60         60         90           60         60         90           60         28/25/23         33/31/24           80/157/         225/208/187         300/268/238           113/92         167/147/128         205/175/145           6.35         Φ 6.35         Φ 9.53           1/4         1/4         3/8           1/2         5/8         5/8           1/2         5/8         25/8           1/2         29         29           20         24         24           24         29         29	29	
Dimonsions	External (H×W×D)	mm		192×70	0×447		192×91	0×447		192×1180×447	
DIFFERINCINS	Packaging (H×W×D)	mm		270×92	5×574		270×11	36×574		HJFDL           6.3           21,500           7.1           24,200           90           90           38/36/35/           33/31/24           300/268/238           205/175/145           0           9           0           9.53           3/8           Φ 9.53           3/8           Φ 15.88           5/8           24           29           192×1180×447           270×1406×574	

NOTES:

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

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

2. The sound pressure level is based on the following conditions: 1.5m beneath the unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.



	Model			AVD-07 H3FCH	AVD-09 H3FCH	AVD-12 H3FCH	AVD-15 H3FCH	AVD-19 H3FCH	AVD-22 H3FCH	AVD-24 H3FCH	AVD-27 H3FCH	AVD-30 H3FCH	AVD-38 H3FCH	AVD-48 H3FCH	AVD-54 H3FCH	AVD-76U X2SEH*2	AVD-96U X2SFH*2
	Power Supply								A	С 1Ф 2081	230V/60H	łz					
			kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28
Constitu	Cooling		Btu/h	7500	9600	12300	15400	19100	21600	24200	27400	30800	38000	48000	54500	76500	95600
Capacity			kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0	25	31.5
	Heating		Btu/h	8500	10900	13700	17100	21600	24200	27400	30800	34200	42500	54500	61500	21500	27100
	Cooling		kW	0.10(0.13*3)	0.10(0.13*3)	0.13(0.16*3)	0.13(0.16*3)	0.14(0.21*3)	0.19(0.24*3)	0.19(0.24*3)	0.25(0.34*3)	0.25(0.34*3)	0.25(0.34*3)	0.34(0.45*3)	0.43(0.59*3)	1.03	1.28
Power Input	Heating		kW	0.10(0.13*3)	0.10(0.13*3)	0.13(0.16*3)	0.13(0.16*3)	0.14(0.21*3)	0.19(0.24*3)	0.19(0.24*3)	0.25(0.34*3)	0.25(0.34*3)	0.25(0.34*3)	0.34(0.45*3)	0.43(0.59*3)	1.03	1.28
Sound Pressure	230V/60Hz		dB(A)	37/33/28	37/33/28	40/38/33	40/38/33	42/40/34	43/37/30	43/37/30	44/42/37	44/42/37	44/42/37	47/43/38	46/42/38	52	54
Air Flow	(Hi/Me/Lo)		m³/min	9/7/6	9/7/6	12/10/8.5	12/10/8.5	15/13/10	19/14/10	19/14/10	28/24/19.5	28/24/19.5	28/24/19.5	35.5/29/24	39/31/24	220	220
External Static Pressure	External tic Pressure 230V/60Hz P Connection Type -				80(105)	90(115)	90(115)	90(115)	90(115)	90(115)	170(150)	170(150)	170(150)	170(150)	170(150)	-	-
	Connection Typ	e	-					Flare-nu	t Connect	ion(with F	lare Nuts)					Bra	izing
	Liquid		mm	Φ6.35	Φ6.35	Φ6.35	Ф6.35	Φ 6.35	Ф9.53	Φ 9.53	Φ9.53	Φ9.53	Ф9.53	Ф9.53	Φ9.53	H3FCH         X2SEH*2           16.0         22.4           16.0         76500           18.0         250           51500         21500           3005*1         1.03           3025*2         220           70150         2           70150         -           70150         0           30.8         0           31.9         0           31.9         0           31.9         0           70(150)         0           70150         0           31.9         0           31.9         0           31.9         0           31.9         0           31.9         0           31.9         0           31.9         0           31.9         0           31.0         0           32.0         0           32.0         0           32.0         0           32.0         0           32.0         0           32.0         0           33.0         0           32.0         0           32.0 </td <td>Ф9.53</td>	Ф9.53
Disiss	Eldara		inch	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Pipilig	Gas		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ 15.88	Ф15.88	Φ 15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Ф15.88	Φ19.05	Φ22.2
	Gas		inch	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	3/4	7/8
	Condensate Dra	in	mm							0.0	).32						
Woight	Net Weight		kg	25(24*3)	25(24*3)	25(24*3)	25(24*3)	30(31*3)	30(31*3)	30(31*3)	45(44*3)	45(44*3)	45(44*3)	53(50* <sup>3</sup> )	53(50*3)	94	106
weight	Gross Weight		kg	31(30*3)	31(30*3)	31(30*3)	31(30*3)	36(38*3)	37(38*3)	37(38*3)	52(52*3)	52(52*3)	52(52*3)	61(59* <sup>3</sup> )	61(59*3)	106	111
		н	mm	270	270	270	270	270	270	270	300	300	300	300	300	470	470
	External	w	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	1100+75	1100+75	1100+75	1400+75	1400+75	1060	1250
Dimonsions		D	mm	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
Dimensions		н	mm	385	385	385	385	385	385	385	415	415	415	415	415	1345	1345
Dimensions —	Packaging	w	mm	895	895	895	895	1140	1140	1140	1345	1345	1345	1640	1640	1276	1466
		D	mm	870	870	870	870	870	870	870	950	950	950	950	950	546	546

#### NOTES:

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

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

# High Static Pressure

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

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

# 1-way Cassette Type



#### **Convenient installation**

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



#### Wider 3D-airflow range

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

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



#### **Efficiency DC motor**

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



#### Standard equipped drain pump

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



	Model		AVY-07UXJSJA	AVY-09UXJSJA	AVY-12UXJSJA	AVY-14UXJSJA	AVY-18UXJSKA	AVY-24UXJSKA					
	Power Supply				AC 1Ф 220°	°240V/60Hz	5.6         7.1           0         19,100         24,200           6.3         8.0           0         21,500         27,300           0         21,500         27,300           34         74           44         94           3/30/29         41/39/36/35/33/31         48/46/43/40/37/33           113/         202/165/147/         260/210/187/           /85         137/130/110         165/140/118           Nuts)         11/4         3/8           7         Ф15.88         Ф15.88           5/8         5/8         5/8           24         24         24           29         29         29						
	Cooling	kW	2.2	2.8	3.6	4.0	5.6	7.1					
Constitu	Cooling	Btu/h	7,500	9,600	12,300	13,600	19,100	24,200					
Capacity		kW	2.5	3.2	4.0	4.5	6.3	8.0					
	Heating	Btu/h	8,500	10,900	13,600	15,400	21,500	27,300					
Deventerent	Cooling	W	14	14	24	34	34	74					
Power Input	Heating	W	14	24	34	44	44	94					
Sound	d Pressure	dB(A)	33/32/31/30/29/28	35/34/32/31/29/28	40/36/35/33/30/29	40/36/35/33/30/29	41/39/36/35/33/31	48/46/43/40/37/33					
	_		103/98/93/	110/103/93/	138/122/113/	138/122/113/	202/165/147/	260/210/187/					
Airtl	ow Rate	L/s	85/80/77	85/80/77	103/93/85	103/93/85	137/130/110	165/140/118					
	Connection Type	-			Flare-nut Connecti	on(With Flare Nuts)							
		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53					
Dining	Liquid	in.	1/4	1/4	1/4	1/4	1/4	3/8					
Pipilig		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88					
	Gas	in.	1/2	1/2	1/2	1/2	5/8	5/8					
	Condensate Drain	mm			0.0	0.32							
	Net Weight	kg	19	19	20	20	24	24					
Weight	Gross Weight	kg	23	23	24	24	29	29					
Dimonsions	External (H×W×D)	mm		192×91	.0×470		192×11	80×470					
DITIENSIONS	Packaging (H×W×D)	mm		268×11	36×574		268×14	06×574					
	Model	-	HP-D-NA	HP-D-NA	HP-D-NA	HP-D-NA	HP-E-NA	HP-E-NA					
	Panel Colour	-			Neutra	l White							
Panol	Body Dimensions (HxWxD)	mm		55×11	00×550		55×13	70×550					
ranci	Packaging Dimensions (H×W×D)	mm		130×1	160×610		130×14	30×610					
	Net Weight	kg	5	5	5	5	6	6					
	Gross Weight	kg	8	8	8	8	10	10					

NOTES:

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



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

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

# 2-way Cassette Type



#### 2-way individual louver

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



#### **Efficiency DC motor**

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



#### Space saving

The slim structure of the cassette having height as low as 298mm can be installed in ceiling spaces with a minimum of 310mm. Narrow corridors or zoned spaces are best fitted with 2 way casettes due to its compact design having 1.42m.



#### Standard equipped drain pump

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



	Model		AVL-07 UXISGA	AVL-09 UXJSGA	AVL-12 UXISGA	AVL-14 UXJSGA	AVL-18 UXJSGA	AVL-24 UXJSGA	AVL-27 UXJSGA	AVL-30 UXJSGA	AVL-38 UXJSHA	AVL-48 UXJSHA	AVL-54 UXJSHA
	Power Supply						AC 10	⊅ 220~240V/	60Hz				
	Casling	kW	2.2	2.8	3.6	4.3	5.6	7.1	8.4	9.0	11.2	14.0	16.0
Conneitu	Cooling	Btu/h	7,500	9,600	12,300	14,700	19,100	24,200	28,700	30,700	38,200	47,800	54,600
Capacity	II. alter	kW	2.8	3.3	4.0	4.9	6.5	8.0	9.0	10.0	13.0	16.0	18.0
	Heating	Btu/h	9,600	11,300	13,600	16,700	22,200	27,300	30,700	34,100	44,400	54,600	61,400
Device la sut	Cooling	W	14	14	14	24	34	44	64	74	84	104	114
Power input	Heating	W	14	14	14	24	34	44	64	74	84	104	114
Caura	l Danaanaa		32/30/	33/30/	34/31/	40/37/	42/39/	45/42/	47/44/	49/46/	46/44/	48/45/	49/46/
Sound	1 Pressure	UB(A)	29/27	29/28	30/28	34/32	36/33	40/36	40/36	42/37	40/38	42/38	43/40
٨irfl	ow Rate	1/5	167/142/	183/157/	200/175/	250/220/	283/248/	317/273/	350/307/	367/322/	500/440/	583/513/	617/542/
AIII	ownate	L/ 3	120/100	137/110	148/125	192/165	217/187	238/205	260/210	272/218	385/330	448/352	473/402
	Connection Type	-					Flare-nut Co	nnection(Wit	h Flare Nuts)				
		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Ф9.53	Ф9.53	Ф9.53	Φ9.53	Ф9.53	Ф9.53
Pining	Liquid	in.	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
1 IPINB	Car	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Ф15.88	Ф15.88	Φ15.88	Ф15.88	Ф15.88	Φ15.88	Ф15.88
	692	in.	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain	mm						O.D.32					
Mainh+	Net Weight	kg	22	22	22	24	24	24	24	24	39	39	39
weight	Gross Weight	kg	28	28	28	30	30	30	30	30	47	47	47
Dimensions	External (H×W×D)	mm				298×86	60×630				2	98×1420×63	0
	Packaging (H×W×D)	mm				350×10	70×710				з	350×1630×71	0
	Model	-	HP-C-NA	HP-F-NA	HP-F-NA	HP-F-NA							
	Panel Colour	-					I	Neutral White	2				
Panel	Body Dimensions (H×W×D)	mm				30×110	00×710					30×1660×71	.0
- and	Packaging Dimensions (H×W×D)	mm				160×11	70×740					160×1710×7	40
	Net Weight	kg	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.5	10.5	10.5
	Gross Weight	kg	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	17.8	17.8	17.8

NOTES:

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

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 The sound pressure level is based on the following conditions: 1.5m beneath the unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

# Console Type



#### 3D air supply/return

#### Heat Mode

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



#### Cool Mode

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



#### **Stylish aesthetics**

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



#### **Connected with Hi-Motion**

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

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



	Model		AVK-05HJFCAA	AVK-07HJFCAA	AVK-09HJFCAA	AVK-12HJFCAA	AVK-15HJFCAA	AVK-17HJFCAA				
	Power Supply				AC 1Φ 220V	~240V/60Hz						
	Casting	kW	1.5	2.2	2.8	3.6	4.5	5.0				
	Cooling	Btu/h	5,100	7,500	9,600	12,300	15,300	17,100				
Capacity		kW	2.0	2.5	3.3	4.2	5.0	5.6				
	Heating	Btu/h	6,800	8,500	11,200	14,300	17,000	19,100				
	Cooling	W	10	11	12	14	18	23				
Power Input	Heating	W	10	11	12	14	18	23				
So	und Pressure	dB(A)	32/30/29/28/26/24	34/32/31/29/27/26	36/35/32/31/29/27	39/36/34/31/29/27	41/39/37/35/33/32	44/43/41/39/37/36				
	· 0		100/95/88/	123/117/107/	133/123/117/	137/127/113/	AVK-15HJFCAA         AVK-17H.           4.5         5.0           15,300         17,10           5.0         5.6           17,000         19,10           18         23           9/27         41/39/37/35/33/32         44/43/41/3           3/         150/142/130/         168/162           120/110/107         142/132         142/132           ts)         Φ 6.35         Φ 6.3           1/4         1/4         1/4           1/2         1/2         1/2           17.4         17.4         17.4	168/162/150/				
μ	artiow Rate	L/s	85/78/75	100/93/88	107/100/93	103/95/88		142/132/122				
P	anel Colour	-			Pure White							
	Connection Type	-			Flare-nut Connecti	on(With Flare Nuts)						
	Liquid	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35	Φ 6.35				
	Liquid	in.	1/4	1/4	1/4	1/4	1/4	1/4				
Piping	C	mm	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7	Φ 12.7				
	Gas	in.	1/2	1/2	1/2	1/2	1/2	1/2				
	Condensate Drain	mm			0.0	0.32						
	Net Weight	kg	16.1	16.1	16.1	17.4	17.4	17.4				
Weight	Gross Weight	kg	20.6	21.1	21.1	21.5	21.5	21.5				
	External (H×W×D)	mm			630×70	00×225						
Dimensions	Packaging (H×W×D)	mm			725×7	90×315						

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions: Cooling Operation Conditions Indoor Air Inlet Temperature: 27°C DB, 19.0°C WB Outdoor Air Inlet Temperature: 35°C DB Piping Length: 7.5 Meters Piping Lift: 0 Meter Heating Operation Conditions Indoor Air Inlet Temperature: 20°C DB Outdoor Air Inlet Temperature: 7°C DB, 6°C WB 2.The sound pressure level is based on following conditions: It is measured in anechoic room. Operation noise differs with operation and ambient conditions. Location of Microphone:



# Wall Mounted Type



#### Wider 3D-airflow range

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



#### **Sleek smooth design**

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



standard for Wall Mounted Type.



#### Lighter to simplify installation

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



#### **Flexible piping connection**

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



	Model		AVS-07H3FSTD	AVS-09H3FSTD	AVS-12H3FSTD	AVS-14H3FSTD	AVS-18H3FSTD	AVS-22H3FSTD	AVS-24H3FSTD			
I	Power Supply				A	C1Φ 208/230V/60Hz						
	Cooling	kW	2.2	2.8	3.6	4.0	5.6	6.3	7.1			
	Cooling	Btu/h	7,500	9,600	12,300	13,700	19,100	21,500	24,200			
Capacity	Heating	kW	2.5	3.3	4.0	4.5	6.3	7.1	8.0			
	ricuting	Btu/h	8,500	11,300	13,700	15,300	21,500	24,200	27,300			
Deversion	Cooling	W	55	55	65	65	65	74	83			
Power input	Heating	W	55	55	65	65	75	83	91			
I	MCA	А	0.70	0.70	0.72	0.72	0.97	1.02	1.07			
I	MOP	А	15	15	15	15	15         15         15           /39/32/28         41/37/34/30         44/41/36/31         46/43/38		15			
Sound	d Pressure	dB(A)	39/34/32/28	39/34/32/28	41/39/32/28	41/39/32/28	41/37/34/30	44/41/36/31 46/43/38/3				
Airflow Rate		m <sup>3/</sup> min	11/9.8/8.7/7.7	11/9.8/8.7/7.7	12/11/8.7/7.7	12/11/8.7/7.7	14.9/13/11.2/10.4	16.8/14.9/11.9/10.4	18.7/16.4/13.4/10.8			
Airflov	Connection Type				Flare-Nut	Connection (with Flar	e Nuts)					
	Liquid	mm		Φ	6.35			Ф9.53				
Piping	Gas	mm		Φ	12.7			Φ15.88				
	Condensate Drain					VP 16						
	Net Weight	kg		1	3.5			16.0				
Weight	Gross Weight			1	7.0			20.0				
	External (H×W×D)	mm		315×9	60×230			315×1,120×230				
Piping CC Weight Ext Dimensions Par		mm		438×1,0	073×349			438×1,238×349				
	Packaging(H×W×D)											
Wireless Re	mote Controller					HYE-W01						

#### NOTES:

1. The nominal cooling capacity is the combined capacity of the Hisense standard split system. Cooling Operation Conditions Indoor Air Inlet Temperature:27°C DB (80°F DB), 19.0°C WB (66°F WB) Outdoor Air Inlet Temperature:35°C DB (95°F DB), Heating Operation Conditions Indoor Air Inlet Temperature:20°C DB (68°F DB) Outdoor Air Inlet Temperature:7°C DB (44°F DB), 6°C WB (42°F WB) Piping Length: 7.5m(24.6ft.), Piping Lit: 0m (0ft.)

The sound pressure level is based on following conditions.
 0.8m (2.6ft.) beneath the unit and 1m (3.3ft.) in front of the unit The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
 The above air flow rate and noise level are tested with AC 230V power supply .

# Ceiling & Floor Type



#### **Convenient design**

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



#### Wider 3D-airflow range

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

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



	Model		AVV-17URSCA	AVV-18URSCA	AVV-22URSCA	AVV-24URSCA	AVV-27URSCB	AVV-30URSCB	AVV-38URSCB	AVV-48URSCC
	Power Supply					AC 1Ф 220V	~240V/60Hz			
		kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
Constitu	Cooling	Btu/h	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500
Capacity	lis afra a	kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
	неатия	Btu/h	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600
Deuterland	Cooling	W	40	40	70	70	70	80	130	160
PowerInput	Heating	W	40	40	70	70	70	80	130	160
Sound	Ceiling	dB(A)	39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
Pressure	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
A	irflow Rate	L/s	217/183/150	217/183/150	268/233/188	268/233/188	303/253/203	323/272/222	413/342/272	550/467/383
Speed	-up Setting HH1	m³/min	14.2	14.2	17.8	17.8	19.8	21.2	27.0	
Speed	l-up Setting HH2	m³/min	16.0	16.0	20.0	20.0	22.3	23.5	29.2	37.4
P	anel Colour	-	-	-	-	-	-	-	-	-
	Connection Type	-			F	lare-nut Connecti	on(With Flare Nut	s)		
	tionid	mm	Φ 6.35	Φ 6.35	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53
	Liquid	in.	1/4	1/4	3/8	3/8	3/8	3/8	3/8	3/8
Piping	Gas	mm	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88	Φ 15.88
	665	in.	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Condensate Drain	mm				O.E	0.32			
Woight	Net Weight	kg	31	31	32	32	39	40	41	47
weight	Gross Weight	kg	38	38	39	39	46	47	48	56
Dimensions	External (H×W×D)	mm		230×99	Φ 15.88         Φ 15.88         Φ 15.88           5/8         5/8         5/8           31         32         32           38         39         39           230×990×680         340×1110×830         340×1110×830			230×1285×680		230×1580×680
Dimensions	Packaging (H×W×D)	mm		340×11	10×830			340×1400×830		340×1690×830

NOTES:

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

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

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

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

# Floor Concealed Type



#### **Connectable devices**

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



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





	Model		AVH-09UX2SAA	AVH-14UX2SAA	AVH-18UX2SBA	AVH-24UX2SBA					
1	Power Supply			AC 1Ф 22	0V/60Hz						
	Cooling	kW	2.8	4.3	5.6	7.1					
Constitu	Cooling	Btu/h	9,600	14,700	19,100	24,200					
Capacity	lleating	kW	3.3	4.9	6.5	8.5					
	пеация	Btu/h	11,300	16,700	22,200	29,000					
lowor loout	Cooling	W	50	80	90	120					
ower input	Heating	W	50	80	90	120					
Sou	und Pressure	dB(A)	34/31/27	40/36/34         41/36/32         44/40/36           172/150/133         247/206/175         272/231/197							
Ai	irflow Rate	L/s	247/206/175	272/231/197							
	Connection Type	-		Flare-nut Connection	on(With Flare Nuts)						
	1 invited	mm	Φ 6.35	Φ 6.35	Φ 6.35	Φ 9.53					
Dining	Liquid	in.	1/4	1/4	1/4	3/8					
Piping	Gas	mm	Φ 12.7	Φ 12.7	Φ 15.88	Φ 15.88					
	Gas	in.	1/2	1/2	5/8	5/8					
	Condensate Drain	mm		O.D	0.32						
Woight	Net Weight	kg	18	22	26	27					
weight	Gross Weight	kg	30	31	37	37					
Dimonsions	External (H×W×D)	mm	620×(948+139)×202	620×(948+139)×202	620×(1218+139)×202	620×(1218+139)×202					
JILLIEUSIOLIS	Packaging (H×W×D)	mm	675×1160×240	675×1160×240	675×1430×240	675×1430×240					

NOTES:

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

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

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2. The sound pressure level is based on the following conditions: 1.5m meters from the unit and 1.5m meters from floor level. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

# All Fresh Air Indoor Unit



## Create comfortable and healthy indoor environment

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

#### Higher external static pressure

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

#### **Flexible line-up**

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

#### Saving energy

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





Model				AVA-30UX 2SCH-70	AVA-48UX 2SQH-108	AVA-76UX 2SRH-168	AVA-96UX 2SRH-210
Power Supply					AC 1Ф 22	20V/60Hz	
	Caslina		kW	9.0	14.0	22.4	28.0
Capacity	Cooling		Btu/h	30,700	47,800	76,500	95,600
cupucity			kW	8.6	13.7	21.9	24.5
	Heating		Btu/h	29,400	46,800	74,700	83,600
Power Input	Cooling		W	150	330	490	510
rower input	Heating		W	150	330	490	510
Sound Pressure			dB(A)	32	43	45	46
Airflow Rate			m³/min	11.0	18.0	28.0	35.0
External Static Pressur	re		Pa	60(120)	200	220	220
	Liquid		mm	Φ 9.53	Φ 9.53	Φ 9.53	Φ 9.53
Diping	Liquiu		inch	3/8	3/8	3/8	3/8
FIDING	G. 1		mm	Φ 15.88	Φ 15.88	Φ 19.05	Φ 22.2
	Gas		inch	5/8	5/8	3/4	7/8
Weight	Net Weight		kg	46	60	97	97
weight	Gross Weight		kg	51	64	117	117
		н	mm	370	370	486	486
	External	W	mm	920	1320	1270	1270
Dimensions		D	mm	800	800	1069	1069
Dimensions		н	mm	800         800           390         390	1290	1290	
	Packaging	W	mm	1112	1512	1466	1466
		D	mm	922	922	540	540
Temperature Range o	f Fresh Air		-		Cooling: 20°C~43°C	, Heating: -7°C~15°C	

#### NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions Cooling operation conditions:  $33^{\circ}C$  DB,  $28^{\circ}C$  WB, piping length: 7.5m, piping lift: 0m Heating operation conditions: 0°C DB, -9°C WB, piping length: 7.5m, piping lift: 0m (Heating capacity is tested when defrosting is not available ) 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, the duct, which is to be connected omatically shift to ventilation operation; Under heating mode, when outdoor temperature is higher than 15°C; The system will automatically shift to ventilation operation; In case inlet to this unit, shall be installation for dew protection. temperature is below -7°C, all fresh air unit will stop.

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 S Series. In case of connecting this unit with other

indoor units in the same refrigerant cycle, calculate the capacity of this unit as
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rate is 100% (Recommended ). 8. Under cooling mode, when outdoor temperature is lower than 20°C, the system will

# **Heat Recovery Ventilator**

#### Compact machine, Convenient installation.

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



#### **Airflow system**



HKF-150B2EE~HKL-500B2EE

#### **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** 



#### **Technical Parameters**

Model	Air	Volume m	²/h	Ent (Su	halpy Effici mmer) भ	iency i	Enti (Wir	halpy Effici nter) η i	ency	Ex F	ternal Stat Pressure Pa	ic I	Power	Inp	ut Current	A	Inp	ut Power	ĸw	Noi	se Level	dB(A)	Weight
	High	Middle	Low	High	Middle	Low	High	Middle	Low	High	Middle	Low	Supply	High	Middle	Low	High	Middle	Low	High	Middle	Low	kg
HKF-15B2E2	150	150	110	58	58	60	65	65	69	85	70	65	220V/60Hz	0.38	0.36	0.31	2× 0.041	2× 0.038	2× 0.029	30	29	28	25

#### **Energy saving analysis**

#### **Summer Energy Saving Analysis**



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

#### Winter Energy Saving Analysis



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



	Model	L	L1	w	W1	W2	н	с	N	H1
oor	HKF-15B2E2	665	723	580	514	290	265	90	Ф144	20

# Heat Recovery Ventilator

#### HKF-25B2E2~HKF-100B2E2

#### **Product Dimensions**





Model	L	11	w	W1	W2	н	с	G	N	Н1
HKF-25B2E2	745	675	600	656	315	270	90	19	Ф144	110
HKF-35B2E2	745	675	805	861	480	270	90	19	Φ144	110
HKF-50B2E2	825	755	905	961	500	270	96	19	Φ194	110
HKF-65B2E2	1115	1050	885	941	430	390	80	19	Φ242	175
HKF-80B2E2	1115	1050	1135	1191	675	390	80	19	Φ242	175
HKF-100B2E2	1115	1050	1135	1191	675	390	80	19	Φ242	175

#### **Technical Parameters**

Model	Air	/olume r	n³/h	Enth (Su	alpy Effic Immer) †	c <b>iency</b> ו י	Enth (V	alpy Effic Vinter) भ	iency i	Ext P	ternal Sta ressure l	atic Pa	Power	Inpu	t Curren	t A	Inpu	ut Power	KW	Nois	e Level	dB(A)	Weight
Model	High	Middle	Low	High	Middle	Low	High	Middle	Low	High	Middle	Low	Supply	High	Middle	Low	High	Middle	Low	High	Middle	Low	kg
HKF-25B2E2	250	250	190	57	57	59	63	63	68	85	65	60		0.66	0.56	0.52	2×0.069	2×0.055	2×0.049	32	31	28	30
HKF-35B2E2	350	350	270	55	55	57	62	62	65	100	75	65		0.76	0.75	0.71	2×0.083	2×0.079	2×0.075	34	33	31	35
HKF-50B2E2	500	500	400	56	56	58	63	63	65	130	110	100	AC 1Φ 220V/	1.82	1.71	1.52	2×0.189	2×0.157	2×0.124	39	38	36	40
HKF-65B2E2	650	650	550	57	57	59	63	63	68	130	100	100	60Hz	1.75	1.62	1.51	2×0.193	2×0.178	2×0.164	40	38	35	62
HKF-80B2E2	800	800	650	58	58	59	66	66	68	130	100	90		1 98	1.88	1.75	2×0.211	2×0.196	2×0.18	42	40	37	72
HKF-100B2E2	1000	1000	700	56	56	58	63	63	66	165	120	60		4.68	4.18	3.47	2×0.510	2×0.450	2×0.363	44	42	38	79

#### HKF-150B2EE~HKF-200B2EE





Model	L	u	w	W1	W2	н	H1
HKF-150B2E9*	1500	1550	1200	1170	600	540	250
HKF-200B2E9*	1550	1600	1400	1370	700	540	250
Model							
Model	C	G	N	N1	N2	N3	H2
HKF-150B2E9*	50	<b>G</b> 25	N 320	N1 300	N2 320	N3 300	H2 250

#### **Technical Parameters**

Model	Air Volume m³/h	Enthalpy Efficiency (Summer) η i	Enthalpy Efficiency (Winter) η i	External Static Pressure Pa	Power Supply	Input Current A	Input Power KW	Noise Level dB(A)	Weight kg
HKF-150B2E9*	1500	55	63	180	AC 3Ф220V/60Hz	2.78	2×0.41	48	151
HKF-200B2E9*	2000	54	62	160	AC 3Ф220V/60Hz	2.89	2×0.52	49	172

\*: AC 3Ф380V/60Hz HKF-150B2EF HKF-200B2EF

#### HKF-250B2EE~HKF-300B2EE

#### **Product Dimensions**



#### **Technical Parameters**

Model	Air Volume m³/h	Enthalpy Efficiency (Summer) η i	Enthalpy Efficiency (Winter) η i	External Static Pressure Pa	Power Supply	Input Current A	Input Power KW	Noise Level dB(A)	Weight kg
HKF-250B2E9*	2500	54	62	180	AC 3Ф220V/60Hz	3.86	2×0.72	53	185
HKF-300B2E9*	3000	55	63	200	AC 3Ф220V/60Hz	5.12	2×1.16	56	222

\*: AC 3Ф380V/60Hz HKF-250B2EF HKF-300B2EF

#### HKL-400B2EE~HKL-500B2EE

#### **Product Dimensions**



#### **Technical Parameters**

Model	Air Volume m³/h	Enthalpy Efficiency (Summer) η i	Enthalpy Efficiency (Winter) դi	External Static Pressure Pa	Power Supply	Input Current A	Input Power KW	Noise Level dB(A)	Weight kg
HKL-400B2E9*	4000	55	63	220	AC 3Ф220V/60Hz	5.89	2×1.71	57	312
HKL-500B2E9*	5000	53	61	240	AC 3Ф220V/60Hz	8.78	2×2.2	58	321

\*: AC 3Ф380V/60Hz HKF-400B2EF HKF-500B2EF

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![](_page_57_Picture_31.jpeg)

Model	L	11	w	W1	W2	н	H1
HKF-250B2E9*	1610	1580	1330	1400	655	600	265
HKF-300B2E9*	1700	1670	1500	1570	750	640	272
Model	с	G	N	N1	N2	N3	H2
Model	<b>C</b>	<b>G</b>	N 265	N1	N2	N3	H2
Model HKF-250B2E9*	<b>C</b> 50	<b>G</b> 15	N 365	<b>N1</b> 275	<b>N2</b> 500	<b>N3</b> 350	<b>H2</b> 300

![](_page_57_Picture_33.jpeg)

Model	L	u	w	W1	W2	н	H1
HKL-400B2E9*	1625	1675	1330	1300	665	1050	490
HKL-500B2E9*	1625	1675	1330	1300	665	1050	490
Model	с	G	N	N1	N2	N3	H2
Model HKL-400B2E9*	<b>C</b> 50	<b>G</b> 25	<b>N</b> 370	<b>N1</b> 330	<b>N2</b> 500	<b>N3</b> 690	<b>H2</b> 475

# **AHU Connection Kit**

![](_page_58_Picture_2.jpeg)

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

#### Main functions

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

#### Selection and limitation of heat exchanger of AHU

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

![](_page_58_Figure_11.jpeg)

AHU Conne	ction KIT		HZX-2 AE3	HZX-4 AE3	HZX-6 AE3	HZX-:	10AE3		ŀ	IZX-20AE3				ŀ	IZX-30AE	3	
Model Powe	r Supply							AC 1	1Ф 220~2 <sup>,</sup>	40V/60Hz							
Nominal Capacity	/ of AHU	HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
		kW	4.0	7.1	11.2	16.0	20.0	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0
	Cooling	kW	5.0	9.0	14.0	20.0	25.0	30.0	35.0	43.0	48.0	52.0	58.0	65.0	71.0	76.0	82.0
Allowed Heat Exchanger		kW	5.6	11.2	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0	85.0
Capacity (H/M/L)		kW	4.5	8.0	12.5	17.9	22.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0
	Heating	kW	5.6	10.0	16.0	22.4	28.0	33.5	40.0	47.5	53.0	60.0	66.0	75.0	79.0	86.0	92.0
		kW	7.1	12.5	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0	95.0
Heat Exchanger	Min	dm³	0.57	1.03	1.92	2.92	3.89	4.76	5.85	6.79	7.57	8.47	9.04	9.50	10.39	11.39	12.36
Volume	Max	dm³	1.16	2.37	2.92	3.89	4.76	5.91	6.89	8	8.92	9.97	11.13	12.34	12.89	13.86	14.73
Equivalent In Unit Capac	door ity	HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Control Bo	x Model									HZX-AEC	/1						
Expansion Valve	e Box Moo	del	HZX-2 AE3/2	HZX-4 AE3/2	HZX-6 AE3/2	HZ) AE	<-10 3/2			HZX-20 AE3/2				HZX-	20AE3/2	2set	

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

Operation Conditions		Cooling	Heating
	DB	27.0°C	20.0°C
Indoor Air Inlet Temperature	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

![](_page_59_Picture_0.jpeg)

#### HYXE-VA01 120mm×120mm

- Cooling/Heating/Dry/Fan/Auto
   Optional Setting
- Error Code Display
- Air Filter Cleaning Reminding
- Built-in Temperature Sensor
- ♦ 0.5°C Temperature Setting
- Dehumidification

Hi-Dom III Air Conditioning Management System

Building Management System

Hisense 014-03-25 Tu OLOU OMODE · () ٦ V  $\mathbf{\underline{\nabla}}$  $\wedge$ 

HYXE-J01H 120mm×120mm

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

- One Touch Test Run

◆ 3D-Airflow Setting

Check

# Independent Controller

![](_page_59_Picture_23.jpeg)

#### **LED Clear Display**

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

![](_page_59_Picture_26.jpeg)

#### **Temperature Sensor**

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

![](_page_59_Picture_29.jpeg)

#### **Connect With Hi-Motion**

J01H can connect with Hi-Motion.

![](_page_59_Picture_32.jpeg)

#### Weekly Timer/Holiday Setting

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

![](_page_59_Picture_35.jpeg)

#### Backlight

The backlight display, clearly visible during day and night.

![](_page_59_Picture_38.jpeg)

#### **Address Setting**

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

- 72-hour Timer
- Multiple Speed
- Backlight Control
- Swing Louver

Max. 16 Indoor Units Can be Connected

![](_page_59_Picture_46.jpeg)

# **Independent Controller**

#### HYXM-VB01 86mm×90mm

![](_page_60_Picture_3.jpeg)

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

#### **Touchscreen**

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

#### Multilingual

12 different languages. Choose the language you love.

![](_page_60_Picture_16.jpeg)

#### **Auto-brightness**

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

#### Appearance

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

![](_page_60_Picture_21.jpeg)

#### Intelligent

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

#### HYXE-M01H 86mm×86mm

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

![](_page_60_Picture_32.jpeg)

• () MODE FAN TIMER

#### HYXE-S01H 120mm×70mm

- Cooling/Heating/Dry/Fan/Auto
   Quiet
- 3 or 6 Speed Control
- Touch Buttons
- Optional Setting
- Dehumidification

#### HYE-W01 145mm×55mm

- Cooling/Heating/Dry/Fan/Auto
   Temperature Setting
- 6 Fan Speed/Swing Louver
- Sleep Mode Setting

#### **Receiver Kit for Wireless Control (Optional)**

![](_page_60_Picture_45.jpeg)

# **Independent Controller**

- Timer
- Air Filter Cleaning Reminding
- Icon Function Display
- Fan Speed/Swing Louver

Temperature Setting

Quiet Mode Setting

Check

Test Run

 24-hour Timer Dehumidification

![](_page_60_Picture_55.jpeg)

![](_page_60_Picture_56.jpeg)

# **Centralized Controller**

#### HYJM-S01H 148mm×220mm

![](_page_61_Picture_3.jpeg)

#### **External Input/Output Setting**

External Input Setting

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

![](_page_61_Figure_7.jpeg)

External Output Setting

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

![](_page_61_Figure_10.jpeg)

#### **Temperature Limitation**

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

#### **Lock Wired Controller**

Decide wired controller running mode and operation limitation.

#### Multilingual

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

中文	English	Русский	Español
Türkçe	Deutsch	Italiano	Nederlands

#### **Group Centralized Control**

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

![](_page_61_Figure_20.jpeg)

#### **Holiday Setting**

Turn on or off the air-conditioning after presetting depend on your different demand. Light-touch key to choose holiday mode with only one press. You can choose to control all IDUs or only one.

HYJ-J01H 120mm×120m	m		Hisense		046/7	
		1	2	3	4	
<ul> <li>Group Control(ON/OFF)</li> </ul>	<ul> <li>Indoor Units Auto Login in</li> </ul>	5	6	7	8	
		9	10	11	12	
<ul> <li>Indoor Unit Power OFF Reminder</li> </ul>	<ul> <li>Error Reminder</li> </ul>	13	14	15	16	
<ul> <li>External Input Setting</li> </ul>	<ul> <li>May 128 Indoor Units (16 Group) Can be Connected</li> </ul>			Contralised (	HECTY Controlle	
• External input Setting		<u></u>	_			

	Туре			Wireless Controller			
Model		HYXE-J01H	HYXE-VA01	HYXM-VB01	HYXE-M01H	HYXE-S01H	HYE-W01
	Picture	265 : 4	2005 2005 2005	265	Sump or see a const a		
	4-Way Cassette	0	0	0	0	0	0
	Mini 4-Way Cassette	0	0	0	0	×	0
	DC Low Height	0	0	0	0	0	0
	Ceiling Duct	0	0	0	0	0	0
	1-Way Cassette	0	0	0	0	×	0
Suit for	2-Way Cassette	0	0	0	$\bigcirc$	×	0
Indoor	Console	0	0	0	0	0	$\sim$
Onic	Wall Mounted	0	0	0	0	0	$\sim$
	Ceiling & Floor	0	0	0	0	0	$\sim$
	Floor Concealed	0	0	0	0	×	0
	All Fresh Air Indoor Unit	0	0	0	0	0	0
	Heat Recovery Ventilation	0	0	0	$\checkmark$	0	×
	3D-Airflow Panel	0	0	0	0	×	0
	AHU KIT	0	$\checkmark$	0	0	×	×

Туре			Recei		Centralized Controller	ON/OFF	
Model		HYRE-V02H	HYRE-T03H	HYRE-Z01	HYRE-X01H	HYJM-S01H	HYJ-J01H
	Picture				11.		Handbar
	4-Way Cassette	×	0	×	×	0	0
	Mini 4-Way Cassette	×	×	0	×	0	0
	DC Low Height	$\bigcirc$	×	×	×	0	0
	Ceiling Duct	0	×	×	×	0	0
	1-Way Cassette	×	×	×	0	0	0
Suit for	2-Way Cassette	0	×	×	×	0	0
Indoor	Console	0	×	×	×	0	0
Onic	Wall Mounted	0	×	×	×	0	0
	Ceiling & Floor	0	×	×	×	0	0
	Floor Concealed	0	×	×	×	0	0
	All Fresh Air Indoor Unit	0	×	×	×	0	0
	Heat Recovery Ventilation	×	×	×	×	0	0
	3D-Airflow Panel	0	×	×	×	0	0
	AHU KIT	×	×	×	×	0	0

# **Centralized Controller**

Remarks:  $\checkmark$  Standard  $\bigcirc$  Optional imes Incompatible

## Hi-Mit

# **Hi-Dom III Air Conditioning Management System**

![](_page_62_Picture_3.jpeg)

#### **Main Functions**

- ON/OFF Control, Operation Mode, Temperature Setting
- Operate According to a Schedule
- Display the Alarm Code
- 16 Scene Modes

Max. 32 Indoor Units Can be Controlled

.

- Dimension: 215×137×38 mm
- Remote Control (if you need the function, please contact with our engineers.)

![](_page_62_Figure_12.jpeg)

#### **Adapter Specifications**

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

#### **Centralized Control**

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

- Multilevel user management AC control(on-off,mode,temp,air flow)
- Running according to timer
- Running record display
- 2D Navigation
- Data synchronize
- Electricity consumption allocation

isense	=		
Monitor&Control	A/C Ammeter Gateway Bolding Al Buildings V Proc	Room	
2D Navigation	Select Totally 60		
Times Management	Law firm-100-0-0 • ON	Law firm-100-0-1   ON	L
Energy-saving	20°C G Anto Day Anto	20°C Gr CH Refer	1
	0 4 8 0 0 0 ⊕ Teer LM LI L0 L7 More	Ó Á Å Û Û ⊖ Teo LA LT LO LT More	
Running Stat	God Dans-100-1-1 • ON	God Dam-100-1-2 • ON	G
Adv. Management			1 1 1
	God Dam-100-2-2   ON	God Dam-100-2-3   ON	G

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

#### **Electric Charge Allocation**

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

- Malfunction history check
- Max.5120 indoor units can be controlled
- AC locked control(running forbidden control, the max. and min. temp and cooling/heating locked.)
- One Hi-Dom III controls 160 indoor units Supporting for external I/O

![](_page_62_Picture_37.jpeg)

# Hi-Dom III Air Conditioning Management System

![](_page_63_Figure_2.jpeg)

Note: Due to different laws and regulations in different regions, Hisense electrical charge calculation software need to customize processing in project according to the users' requirement.

Only support electric meter—— iEM3150 or iEM3350, which is supplied by Schneider Electric.

#### **Hi-Dom III System Specifications**

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

#### **MODBUS**

![](_page_63_Figure_8.jpeg)

# **BACnet**

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

#### Main Functions

- Central Control of All Indoor Units
- Indoor Unit Data Monitoring
- Heat / Dry / Fan / Cool / Auto Mode Control

![](_page_63_Figure_15.jpeg)

# **Building Management System**

- Vane Position Swing Control
- Function Prohibition of Wired Controller

# **Building Management System**

#### KNX

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

#### **Main Functions**

One to One

- Function Prohibition of Controller
- Operation Control(ON/OFF, Temp. Setting, Mode Control etc.)

TOUCH SCREEN

- Indoor Unit Data Monitoring
- Alarm Monitoring and Code Display
- Bidirectional Communication and Simultaneous Control from KNX and AC's Controller

![](_page_64_Figure_10.jpeg)

![](_page_64_Figure_11.jpeg)

Blinds

Alarms

![](_page_64_Figure_12.jpeg)

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

![](_page_64_Picture_14.jpeg)

Reimagine your solution

# **ACCESSORY**

# **Piping Connection Kit**

## **Piping Connection Kit**

![](_page_65_Figure_3.jpeg)

#### Manifold Pipe (For outdoor unit)

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

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

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

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

#### For Hi-FLEXi S Series Heat Pump

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

#### For Hi-FLEXi G+ Series Heat Pump

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

#### For Hi-FLEXi W Series Heat Pump

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

## Branch Pipe(For indoor unit) First Branch Pipe

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

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

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

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

![](_page_65_Picture_20.jpeg)

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

#### For Hi-FLEXi G+ Series Heat Pump

Outdoor Unit	AVWT-76~96*	AVWT-114~154*
Branch Pipe	HFQ-102F	HFQ-162F

#### For Hi-FLEXi W Series Heat Pump

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

#### First Branch Pipe~Last Branch Pipe

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

otal Indoor Unit Capacity(kBtu/h)	Q<54	54≤Q<86	86≤Q<114	114≤Q<154	154≤Q<170	170≤Q<212
Low Pressure Gas(mm)	15.88	19.05	22.2	25.4	28.6	28.6
High/Low Pressure Gas(mm)	12.7	15.88	19.05	22.2	22.2	22.2
Liquid(mm)	9.53	9.53	9.53	12.7	12.7	15.88
Branch Pipe	HFQ-M142F	HFQ-M282F	HFQ-M282F	HFQ-M452F	HFQ-M562F	HFQ-M562F
otal Indoor Unit Capacity(kBtu/h)	212≤Q<250	250≤Q<344	344≤Q<544	544≤Q<552	552≤Q<654	654≤Q
Low Pressure Gas(mm)	28.6	31.75	38.1	41.3	44.5	50.8
High/Low Pressure Gas(mm)	25.4	28.6	31.75	38.1	41.3	44.5
Liquid(mm)	15.88	19.05	19.05	22.2	22.2	25.4
Branch Pipe	HFQ-M692F	HFQ-M692F	HFQ-M902F	HFQ-462XF	HFQ-462XF	HFQ-682XF

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

otal Indoor Unit Capacity(kBtu/h)	Q<54	54≤Q<86	≥68	Q<114	114≤Q<	154	154≤Q<170	170≤Q<250
Gas(mm)	15.88	19.05		22.2	25.4		28.6	28.6
Liquid(mm)	9.53	9.53		9.53	12.7		12.7	15.88
Branch Pipe	HFQ-102F	HFQ-102F	HF	Q-102F	HFQ-16	2F	HFQ-162F	HFQ-242F
otal Indoor Unit Capacity(kBtu/h)	250≤Q<344	344≤Q<54	14	544≤Q	< 552		2≤Q<654	654≤Q
Gas(mm)	31.75	38.1		41	41.3		44.5	50.8
Liquid(mm)	19.05	19.05	19.05		.2		22.2	25.4
Branch Pipe	HFQ-302F	HFQ-302F		HFQ-	462F	Н	IFQ-462F	HFQ-682F

#### For Hi-FLEXi S Series Heat Pump

Total Indoor Unit Capacity(kBtu/h)	Q<54	54≤Q<86	86≤0	Q<114	114≤Q<	154	154≤Q<170	170≤Q<250
Gas(mm)	15.88	19.05	2	22.2	25.4		28.6	28.6
Liquid(mm)	9.53	9.53	9	9.53	12.7		12.7	15.88
Branch Pipe	HFQ-102F	HFQ-102F	HFC	Q-102F	HFQ-16	2F	HFQ-162F	HFQ-242F
Total Indoor Unit Capacity(kBtu/h)	250≤Q<344	344≤Q<54	14	544≤C	2<552		2≤Q<654	654≤Q
Gas(mm)	31.75	38.1		41	.3		44.5	50.8
Liquid(mm)	19.05	19.05		22	2.2		22.2	25.4
Branch Pipe	HFQ-302F	HFQ-302F	-	HFQ	462F	Н	FQ-462F	HFQ-682F

# Piping Connection Kit

VWT-170~232*	AVWT-250~420*	AVWT-438~630*	AVWT-649~840*
HFQ-242F	HFQ-302F	HFQ-462F	HFQ-682F

# Piping Connection Kit

#### For Hi-FLEXi G+ Series Heat Pump

Total Indoor Unit Capacity(kBtu/h)	Q<58	58≤Q<86	86≤	≦Q<114	114≤Q<	:154	154≤Q<170	170≤Q<250
Gas(mm)	15.88	19.05		22.2	25.4		28.6	28.6
Liquid(mm)	9.53	9.53		9.53	12.7		12.7	15.88
Branch Pipe	HFQ-102F	HFQ-102F	HF	Q-102F	HFQ-16	62F	HFQ-162F	HFQ-242F
Total Indoor Unit Capacity(kBtu/h)	250≤Q<324	324≤Q<4		438≤Q			60≤Q<655	655≤Q
Gas(mm)	31.75	38.1		41	.3		44.5	50.8
Liquid(mm)	19.05	19.05		22	.2		22.2	25.4
Branch Pipe	HFQ-302F	HFQ-302	F	HFQ-	462F	ŀ	HFQ-462F	HFQ-682F

#### For Hi-FLEXi W Series Heat Pump

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

## Last Branch Pipe~Indoor unit

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

Note: When liquid pipe length of indoor unit(07~18kBtu/h) is more than 15m, please change the liquid pipe dimension from Ф6.35 into Ф9.53.

#### **3D Air-flow Panel**

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

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

#### Drain Pump—Optional

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

#### Air Pure Installation and Use

Model	Applicable Models	Power Supply
HJK-ELZA	for mini 4 way cassette, 4 way cassette	1 + 2201/22 4014 5014
HJK-ELZB	for ceiling ducted type (High Static Pressure) and ceiling ducted (DC Low-height)	1Φ,220V~240V 60Hz

#### **Hi-Motion**

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

#### **Motion Sensor**

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

# **Fresh Air Duct Adapter**

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

# **Humidity Sensor**

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

#### Filter

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

![](_page_66_Picture_26.jpeg)

# Piping Connection Kit

![](_page_67_Picture_2.jpeg)

![](_page_67_Figure_3.jpeg)

![](_page_67_Figure_4.jpeg)

![](_page_67_Figure_5.jpeg)

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

# **Branch Pipe Parameterer**

![](_page_67_Figure_10.jpeg)

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

# 

![](_page_68_Figure_4.jpeg)

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

Model	Low Pressure Gas Line	High Pressure Gas Line	Liquid Line	Reducer for Low Pressure Gas Line	Reducer for High Pressure Gas Line	Reducer for Liquid Line
HFQ-M142F	ID 5/8(15.88) Ø 1(25.4) ID 1/2(12.7) ID 3/4(19.05) Ø 3/4(19.05) Ø 3/4(19.05) Ø 3/4(19.05) Ø 3/4(19.05) Ø 7/8(22.2) ID 5/8(15.88) ID 1/2(12.7)	Ø <u>1/2(12.7)</u> ID <u>1/2(12.7)</u> Ø <u>3/8(9.53)</u> ID <u>1/2(12.7)</u> ID <u>1/2(12.7)</u> ID <u>1/2(12.7)</u> ID <u>1/2(12.7)</u> ID <u>1/2(6.35)</u>	Ø 1/2(12.7) Ø 3/8(9.53) ID <u>3/8(9.53)</u> Ø 3/8(9.53) ID <u>3/8(9.53)</u> ID <u>1/4(6.35)</u> ID <u>1/4(6.35)</u>	_	_	D 3/8(9.53) OD 1/4(6.35) (2 unit)
HFQ-M282F	ID 5/8(15.88) Ø 1(25.4) ID 1/2(12.7) D 3/4(19.05) Ø 3/4(19.05) Ø 3/4(19.05) D 5/8(15.88) D 1/2(12.7) D 7/8(22.2) D 7/8(22.2) ID 5/8(15.88) D 1/2(12.7)	D 5/8(15.88) 0 1(25.4) D 1/2(12.7) D 3/4(19.05) D 3/4(19.05) D 7/8(22.2) D 7/8(22.2) D 5/8(15.88) D 1/2(12.7)	Ø 1/2(12.7) Ø 3/8(9.53) ID 3/8(9.53) Ø 3/8(9.53) ID 3/8(9.53) ID 1/4(6.35) ID 1/4(6.35)	_	_	D 3/8(9.53) OD 1/4(6.35) (2 unit)
HFQ-M452F	ID         1(25.4)         ID         1-1/8(28.6)           ID         1-1/8         ID         1(25.4)           Ø         1(25.4)         Ø         7/8           Ø         7/8(22.2)         ID         5/8           ID         7/8(22.2)         ID         1(15.8)           ID         3/4(19.05)         ID         1/2	$\begin{array}{c c} \underline{\text{ID}} & \underline{\text{I25.4}} \\ \underline{\text{ID}} & \underline{\text{I125.4}} \\ (28.6) \\ \underline{\text{O}} & \underline{\text{I25.4}} \\ \hline 0 & \underline{\text{I25.4}} \\ \hline 0 & \underline{\text{I25.4}} \\ \overline{\text{O}} & 7/8 \\ \underline{\text{O}} & 7/8 \\ \underline{\text{O}} & 2.2 \\ \underline{\text{ID}} & 7/8 \\ \underline{\text{O}} & 2.2 \\ \underline{\text{ID}} & 3/4 \\ \underline{\text{ID}} & 3/4 \\ \underline{\text{ID}} & 3.5 \\ \hline \end{array}$	Ø 1/2(12.7) ID 1/2(12.7) Ø 3/8(9.53) ID 3/8(9.53) ID 1/2(12.7) ID 3/8(9.53) ID 1/2(12.7) ID 1/4(6.35)	ID 1(25.4) ID 5/8(15.88) DD 1-1/8 (28.6) (12.7) ID 7/8(22.2) ID 3/4 (19.05) (1 unit)	ID 1(25.4) ID 5/8(15.88 OD 1-1/8 (28.6) (12.7) ID 7/8(22.2) (12.7) ID 3/4 (19.05) (2 unit)	D 3/8(9.53) OD 1/4(6.35) (1 unit)
HFQ-M562F	ID         1(25.4)         ID         1-1/8         28.6)           ID         1-1/8         ID         1(25.4)         0         7/8         0         7/8         0         1(25.4)         0         1(25.4)         0         7/8         0         1(25.4)         0         7/8         0         1(25.2)         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         12         10         12         10         12         10         12         12         10         12         12         10         12	ID         1(25.4)         ID         1-1/8(28.6)           ID         1-1/8         ID         1(25.4)           Ø         1(25.4)         Ø         7/8           Ø         7/8(22.2)         ID         105/8           ID         7/8(22.2)         ID         105/8           ID         7/8(22.2)         ID         10           ID         3/4(19.05)         ID         1/2	ID 3/8(9.53) ID 1/2(12.7) (15.88) Ø 1(25.4) Ø 3/4(19.05) ID 5/8(15.88) ID 5/8(15.88) ID 5/8(15.88) ID 3/8(9.53) ID 1/2(12.7) ID 1/4(6.35)	ID 1(25.4) ID 5/8(15.88) OD 1-1/8 [10 1/2(12.7 (28.6)] ID 7/8(22.2) [1D 3/4 (19.05) (1 unit)	D 1(25.4) ID 5/8(15.86 D 1.1/2 (28.6) (12.7) ID 7/8(22.2) (12.7) ID 7/8(22.2) (13.0) (12.0) (12.0) (12.7) (12.	) ID 3/8(9.53) OD 1/4(6.35) (1 unit)
HFQ-M692F	ID <u>1-1/2(38.1)</u> ID <u>1-1/4(31.75)</u> ID <u>1-1/4(31.75)</u> ID <u>1-1/2(38.1)</u> ID <u>1-1/4(31.75)</u> Ø <u>1-1/4(31.75)</u> Ø <u>1-1/4(31.75)</u> Ø <u>1-1/8(28.6)</u> ID <u>1-1/8(28.6)</u>	ID         1(25.4)         ID         1-1/8(28.6)           ID         1-1/8         ID         1(25.4)           Ø         1(25.4)         Ø         7/8           Ø         7/8(22.2)         ID         5/8           ID         7/8(22.2)         ID         5/8           ID         7/8(22.2)         ID         1/2           ID         3/4(19.05)         ID         1/2	ID 7/8(22.2) ID 3/4 (15.05) Ø 1(25.4) Ø 1(25.4) ID 5/8(15.88) Ø 1(25.4) Ø 1(25.4) Ø 1(25.4) ID 7/8(22.2) ID 7/8(22.2) Ø 7/8(22.2) ID 1/2(12.7) ID 1/2(12.7) ID 1/2(6.35)	ID 1(25.4) ID 5/8(15.88) OD 1-1/8 (28.6) ID 1/2 (12.7) ID 7/8(22.2) ID 3/4 (19.05) (1 unit) OD 1-1/4 Ø 7/8(22.2) (31.75) ID 1-1/8 (28.6) (1 unit)	ID 1(25.4) ID 1/2 (28.6) ID 1/2 (10.74) (10.74) ID 7/8(22.2) (1 unit)	<u>ID 3/8(9.53)</u> OD 1/4(6.35) (1 unit)
HFQ-M902F	ID <u>1-1/2(38.1)</u> ID <u>1-1/4(31.75)</u> ID <u>1-1/4(31.75)</u> ID <u>1-1/2</u> (38.1) Ø <u>1-1/4(31.75)</u> Ø <u>1-1/4(31.75)</u> Ø <u>1-1/4(31.75)</u> Ø <u>1-1/8(28.6)</u> ID <u>1-1/8(28.6)</u>	ID 1-1/2(38.1) ID 1-1/4(31.75) ID 1-1/4(31.75) ID 1-1/2 (38.1) Ø 1-1/4(31.75) Ø 1-1/4(31.75) Ø 1-1/8(28.6) ID 1-1/8(28.6)	ID <u>7/8(22.2)</u> ID <u>5/8(15.88)</u> ID <u>3/4(19.05)</u> Ø 1( <u>25.4)</u> Ø 3/4(19.05) ID <u>5/8(15.88)</u> ID <u>1/2(12.7)</u> ID <u>5/8(15.88)</u> ID <u>1/2(12.7)</u> ID <u>1/2(12.7)</u> ID <u>3/8(9.53)</u> ID <u>1/4(6.35)</u>	OD 1-1/4 Ø 7/8(22.2) (31.75) ID 1-1/8 ID 1(25.4) (28.6) (1 unit) ID 1(25.4) ID 5/8(15.88) OD 1-1/8 (10.6) (1 unit) ID 5/8(15.88) ID 1/2 (12.7) ID 1/2 (10.6) (1 unit) ID 1/2 (34.92 (1 unit) (1 unit)	OD 1-1/4 (31.75) ID 1-1/8 (28.6) (1 urit) (28.6) (1 urit) (1 urit) (1 urit) (1 urit) (1 urit) (1 urit)	<u>ID 3/8(9.53)</u> OD 1/4(6.35) (1 unit)

# Branch Pipe Parameterer

![](_page_68_Figure_10.jpeg)

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

# **Branch Pipe Parameterer**

![](_page_69_Picture_2.jpeg)

![](_page_69_Figure_3.jpeg)

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

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# SUPPORT

## **Engineering Tools**

#### **Selection Software**

Hisense selection software is a Windows-based program which can run in Window XP and other higher operating systems. This software supports multiple languages, and is convenient for users from different countries.Users can get the latest updated products information easily, because Hisense selection software supports product database update. Besides, this software is very intelligent. It not only supports manually drawing but also can generate device piping diagram, wiring diagram and project detailed report automatically. Furthermore, the software supports insertion of architectural drawing in DWG, PDF, JPG and PNG file formats, and designing on the architectural drawing.

![](_page_70_Picture_5.jpeg)

#### **Design Software**

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

![](_page_70_Figure_8.jpeg)

#### BIM

BIM(Building Information Modeling)has become an umbrella term to cover many aspects. Hisense can provide up-to-date graphic and parametric product information that is ready to use in any BIM process. Hisense offers the MEP engineers the needed Revit families and 3D DWG's to optimize their BIM model.

![](_page_70_Picture_12.jpeg)

#### CFD

What is CFD technology ?

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

#### What can we do with CFD technology ?

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

#### GCSS

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

![](_page_70_Picture_20.jpeg)

# **Engineering Tools**

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

![](_page_70_Figure_25.jpeg)

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

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