2025

VRF CATALOG

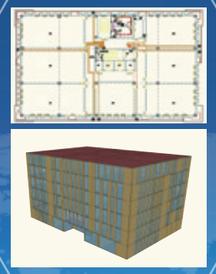
Carrier VRF 2025
Cat-V.01

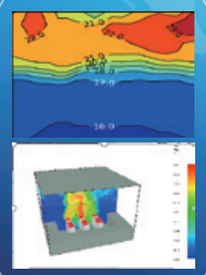
All Digitalized Service

Online VRF system design

Energy Plus Building load calculation

BIM building information import



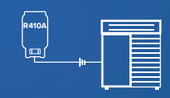


MCFD

Energy consumption and airflow simulation optimization

Energy saving service

Installation service



Automatic refrigerant charge

Automatic commissioning report

Management service

The probability of Filth blockage 80%

Degradation of energy efficiency 25%

Cloud-based big data analytics

After-sales service

Intelligent maintenance tool

Ensures timely supply of global after-sales spare parts.

2 +10 +N Spare Parts Layout

OUTDOOR UNITS

Super Y (Combinable series)
Super Yi (Individual series)

The Super Y Series VRF uses a variety of algorithms and self-learning technology to monitor the operation of the equipment through operating parameters and timely maintenance, so that the equipment always runs in optimal condition throughout its life cycle.

Outdoor Unit Lineup

Super Y (Combinable series)

HP	8-18	20-24	26-40
Single Unit			

HP	42-80	82-120
Combined Unit		

Note: Four units combination are possible for the 8-24 HP models, for four units combination please contact Carrier.

Super Yi (Individual series)

HP	8-18	20-24	26-42
Single Unit			

Outdoor Unit Functions

	Functions ●: equipped as standard; O: customization option; X: without this function		Super Y	Super Y-i
Innovative Technologies	SmartLink	Original communication bus chip greatly simplifies installation and saves installation cost	●	●
	Sealed Box	IP55 Fully sealed electric control box realizes resisting all factors that cause intrusion and damage to the electric control box	●	●
	Comprehensive Sensor	19 sensors achieves the state of each part of the refrigerant pipeline can be known in the whole process	●	●
	Ceta 2.0	Triple variable control to maximize the comfort and energy efficiency	●	●
	CHAE 2.0	Provides comfort and healthy air supply	●	●
	Doctor 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	●	●
High Efficiency	Full DC inverter technology	All electrical components of outdoor and indoor units are DC power supply, improving electrical efficiency and achieving energy saving	●	●
	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation and improves both cooling and heating capacity	●	●
	Micro-channel refrigerant subcooling	The refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound	●	●
	Low standby power consumption	The standby power consumption is as low as 3.5W	●	●
	G-type heat exchanger	Large capacity outdoor unit with G-type heat exchanger, which can increase the heat exchanger area and saves floor space	●	●
	60-step energy management	The system can be set 40% to 100% capacity output in 1% increments	●	●
	Duty cycling (unit)	Equalizes the running time of the outdoor units in a multiple-unit system,significantly extending unit lifespan (available for combined unit)	●	×
	Duty cycling (compressor)	Equalizes the running time of the compressor in each unit, significantly extending compressor lifespan (available for unit with two compressors)	●	●

	Functions ●: equipped as standard; O: customization option; X: without this function		Super Y	Super Y-i
High Reliability	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined unit)	●	X
	Backup operation (compressor)	If one compressor fails, the other compressor provide backup so that the system can continue operating (available for unit with two compressors)	●	●
	Backup operation (fan motor)	If one fan motor fails, the other fan motor provide backup so that the system can continue operating (available for unit with two fan motors)	●	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provide backup so that the system can continue operating	●	●
	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating any compressor oil shortage problems.	●	●
	Heavy anti-corrosion protection	Can be customized with heavy anti-corrosion treatment for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life	○	○
	UL anti-corrosion certificate	It has been certified by UL that our VRF outdoor unit can withstand 27 years of simulated severe corrosion under a salt contaminated traffic environment	○	○
	Micro-channel refrigerant cooling PCB	10 times higher than ordinary refrigerant pipe cooling efficiency	●	●
	Chassis electrical heater	Prevents condensation on the chassis from freezing in winter	○	○
	Anti-snow shield	Prevents the snow accumulating on the outdoor unit, guarantee-ing the unit operating stable in snowy days	○	○
	Auto snow-blowing function	Blows away accumulated snow on the outdoor unit, guaranteeing the unit operating stable in snowy days	●	●
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing the unit operating stable in dusty environment	●	●
	Resistant to 8 intensity earthquake	A reinforced frame footprint to prevent tipping and deformation damage in a 8 intensity earthquake	○	○
	Resistant to violent typhoon	A reinforced trusses and double fastening for stable operation even under violent typhoon	○	○
	Alarm output	In case of system malfunction, remote output error information, remind maintenance personnel timely maintenance	○	○
	Fire alarm input	In case of fire, receive fire information in time and stop the system immediately to avoid serious problems	●	●

Outdoor Unit Functions

	Functions ●: equipped as standard; O: customization option; X: without this function		Super Y	Super Y-i
Enhanced Comfort	Silent mode	15-step silent mode selections provide more freedom and convenience to match the customer needs	●	●
	Intelligent defrosting technology	Calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting	●	●
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature (available in changeover priority mode)	●	●
	Additional ambient temperature sensor	The additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is running in cooling or heating in auto priority mode, ensuring indoor comfort	○	○
	0.1 ℃ control precision	Control precision of the sensor can reach 0.1℃, ensuring less room temperature fluctuation	●	●
	Multiple priority modes	10 priority modes meet the requirements of all scenarios	●	●
Wide Application Range	Wide capacity range	Meets all customer requirements from small to large buildings	8-40HP (single) 42-120HP (combined)	8-42HP
	Wide range of indoor units	Provides 12 types and more 100 models of VRF indoor units to meet different application scenarios	●	●
	Wide operation range	Operates stably under extreme conditions	-15~55℃ (C) -30~30℃ (H)	-15~55℃ (C) -30~30℃ (H)
	Long piping capability	Benefits for the system design, installation flexibility, as well as the less installation cost	●	●
	Auto addressing (ODU~IDU)	Distributes addresses to indoor units automatically, simplifying the installation	●	●
	Auto addressing (ODU~ODU)	Distributes addresses to slave outdoor units automatically, further simplifying the installation (available for combined unit)	●	×

	Functions ●: equipped as standard; O: customization option; X: without this function		Super Y	Super Y-i
Easy Installation And Service	Automatic refrigerant charging	Makes installation and service easier and more efficient	○	○
	Automatic refrigerant recycling	Refrigerant can recycle to ODUs or IDUs and normal ODUs, making the maintenance easier and more efficient	●	●
	Bluetooth module	It can be used for fault information storage, operation parameter enquiry, system parameter setting, quick after-sales PCB replacement, indoor and outdoor units programme upgrade, etc., simplifying installation and maintenance.	○	○
	Digit display	4 digit 7-segment display can be intuitive for parameter setting, parameter check and error check	●	●
	High external static pressure	Up to 120Pa ESP allows easy handling in a variety of installation environments	0-20Pa ● 20-120Pa ○	0-20Pa ● 20-120Pa ○
	Arbitrary topology of communication wire	Supports any communication topology, greatly simplifies installation and reduces installation cost	●	●
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures	●	●
	Long communication wiring	Communication wiring up to 2000m makes installation more flexible	●	●
	Wide combination ratio	Combination ration can be extended to 50%-200% under certain conditions which can meet different project requirements	50-130% ● 50-200% (for single unit system) ○	50-130% ● 50-200% ○
	Supports manual and automatic defrosting	Improves maintenance efficiency	●	●
	Supports manual and automatic oil return	Improves maintenance efficiency	●	●
	Easy software program upgrade*	The software program can be upgraded via on-site USB and burning, or remotely via the web	●	●
	Flexible controller connection	Central controller and BMS gateway can connect to ODU at the same time, central controller can connect to ODU or IDU	●	●
	Refrigerant amount diagnosis	The unit can diagnose excessive or insufficient amounts of refrigerant, prompt maintenance personnel to check the system in time to avoid serious malfunction	●	●
	Easy system commissioning and checking*	System commissioning and checking can easily be done on-site or remotely via the web	●	●
	Intelligent maintenance tool	Intelligent bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency	○	○

Note:
*: The web function needs to be realized through the data cloud gateway, and the data cloud gateway needs to be purchased separately.

INNOVATIVE TECHNOLOGIES

SmartLink New & Unique

SealedBox New & Unique

Comprehensive Sensor New & Unique

CETA 2.0

CHAE 2.0

DOCTOR 2.0

SmartLink

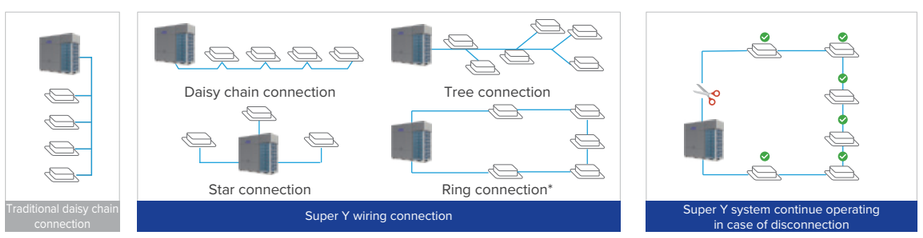
New & Unique

Original communication bus chip greatly simplifies installation and saves installation cost.

SmartLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing the installation cost and the possibility of incorrect connection. It has stronger anti-interference ability, achieving communication distance up to 2000m.

Arbitrary Topology Communication

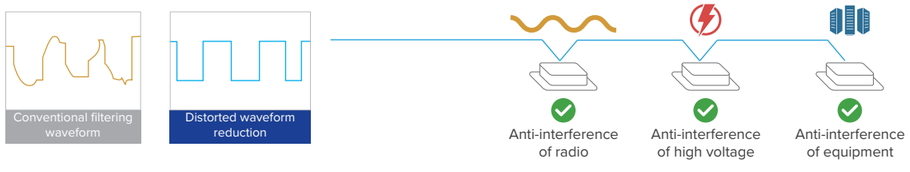
In addition to the traditional daisy chain connection, the communication wire supports tree connection, star connection, ring connection and so on. The wring is flexible, which greatly reduces the installation cost and has no possibility of wrong connection on site.



*In ring connection, the communication wire must be connected polarized (M1 port to M1 port and M2 port to M2 port).

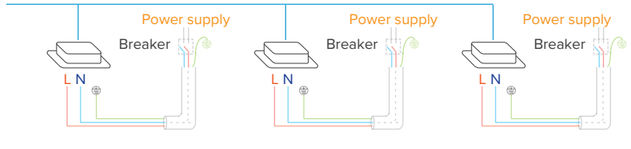
Super Anti-interference Capability

Special waveform restoration technology enhances anti-interference performance for more stable communication.



Flexible Power Supply for Indoor Units

Super Y 's unique communication method allows the indoor units to be powered not only by a uniform power supply, but also by individual and zone power supplies, making it particularly suitable for each shop in a large complex building, which can independently power on and off its own indoor units.



Sealed Box

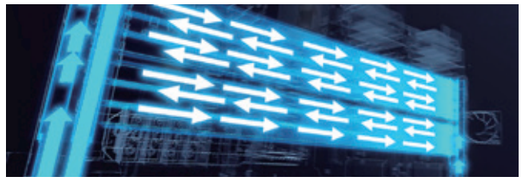
New & Unique

IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system RELIABILITY.

Fully enclosed electronic components are isolated from the external environment to protect against corrosion, sand, humidity, snowstorm and other harsh conditions, and prevent small animals and insects from entering the chamber. To provide comprehensive protection for internal electronic devices, improve the overall environmental tolerance.

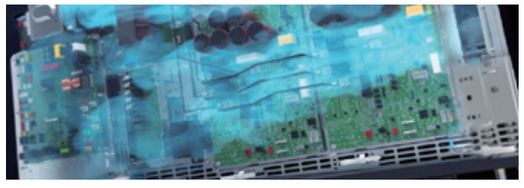
All Microchannel Refrigerant Cooling

All electronic components including inverter module, filter module and power module are cooled by specially designed microchannel refrigerant to ensure that the electronic components work in the best temperature range.



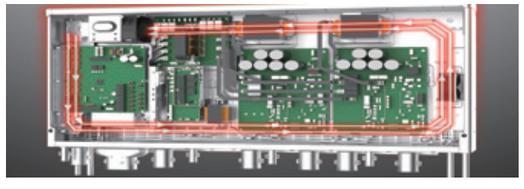
Built-in Circulating Fan

The built-in circulating fan accelerates the air flow inside the chamber, and the heat exchange is more sufficient to ensure the consistent ambient temperature inside the chamber.



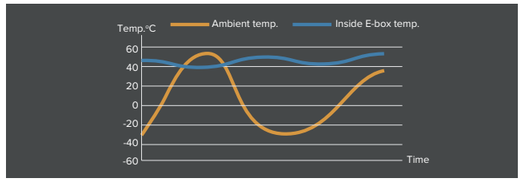
PTC Heater

The unique PTC heater, with precise temperature control sensor, can still ensure that the temperature inside the chamber is within the normal operating temperature range of electronic devices even in the low-temperature environment of -30°C.



5 High Precision Temperature Sensors

5 high precision temperature sensors are used to accurately monitor the operation state of electronic control under various conditions to ensure that the internal temperature of the chamber is always kept within a stable range.



Comprehensive Sensor

New & Unique

The status of the refrigerant is known anywhere throughout the process, ensuring high RELIABILITY and COMFORT.

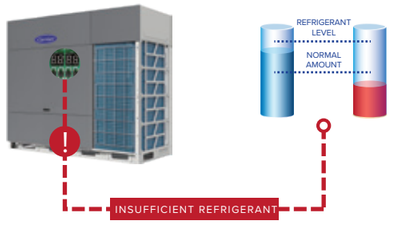
Up to 19 sensors are distributed throughout the refrigerant system, and the status of the refrigerant is known anywhere throughout the process, ensuring stable operation. At the same time, combined with the digital twin technology of the refrigerant system, a virtual sensor can be created in the event of a physical sensor failure, so that the system does not shut down in the event of a sensor failure, ensuring comfort.

Complete Sensors

The Super Y Series VRF has the industry's most comprehensive range of 19 condition sensors with built-in data models for compressors, heat exchangers, throttling components and more. By analyzing sensor data in real time, it can sense the status of the refrigerant anywhere in the system.

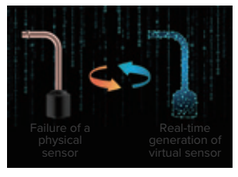
Refrigerant Amount Diagnosis*

Thanks to the complete sensors, the refrigerant running state is clearly visible, so as to accurately diagnose the amount of refrigerant.



Virtual Sensor Backup

In the event of a sensor failure, other sensors can automatically simulate a virtual backup sensor, so that the VRF system can continue to operate without stopping.



Carrier ETA (CETA) 2.0

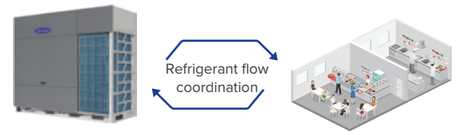
CETA is the abbreviation of Carrier Evaporating Temperature Alteration Further upgraded CETA technology to maximize ENERGY SAVING.

Built-in professional operation and maintenance algorithm, so that the annual operation energy efficiency of each set of systems increased by more than 28%.

Variable Refrigerant Flow

STEP 1: Architectural space feature recognition

The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.

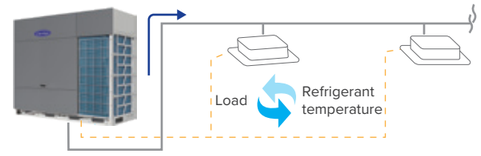


Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.

Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination

The system automatically matches the evaporating temperature (in cooling) or condensing temperature (in heating) to the room load to maximize comfort and energy efficiency.



Automatic matching of the corresponding refrigerant temperature to the load.

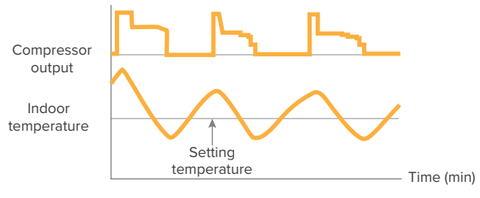
Variable Indoor Airflow

STEP 3: Adaptive indoor airflow and refrigerant flow

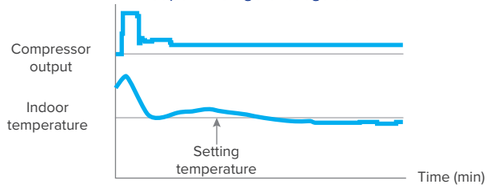
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise temperature control.

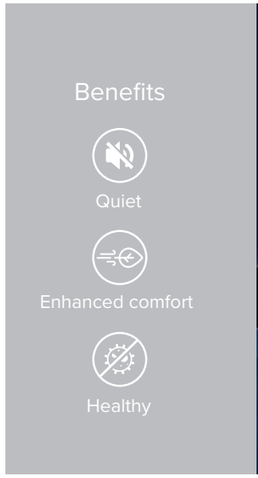
Automatic matching of the corresponding indoor airflow to the load and refrigerant temperature.

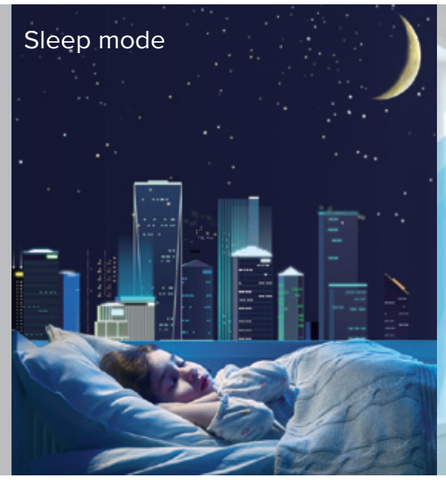
Conventional refrigerant regulation



Super Y refrigerant regulation







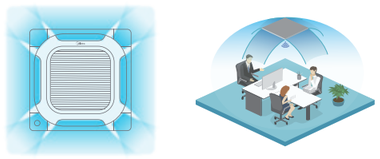
CHAE 2.0

Further upgraded CHAE technology to maximize COMFORT.

0.5° C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization device and other advanced technologies used in Super Y Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

360° Airflow

New design, round air flow path ensures uniform air flow and temperature distribution.

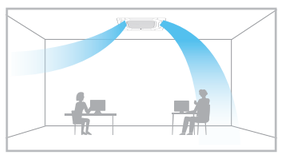


7 Fan Speeds

7 indoor fan speed options to meet the needs of different indoor conditions.

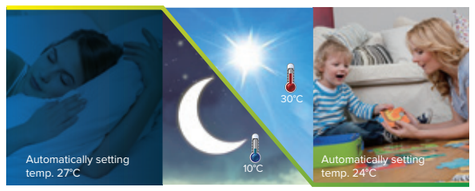
Individual Louver Control

The Individual louver control can control the motors separately, making it possible to control all four louvers independently.



Sleep Mode

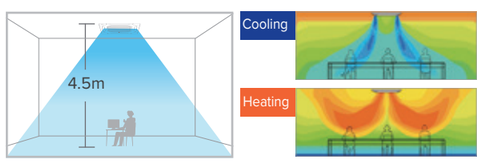
The smart sleep mode provides a comfortable sleep period and a refreshing wake up time.



*Temperature on left is for reference.

Long Distance Air Delivery*

The Four-way Cassette has an additional 50Pa static pressure for long airflow delivery and is capable of being used in spaces up to 4.5m in floor height.



*This function is available as a customization option.

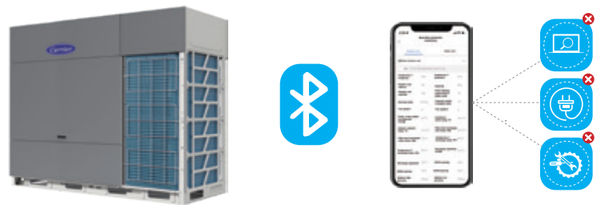
Doctor 2.0

Further upgraded DOCTOR M technology to maximize EASY SERVICE.

Based on a cloud-based platform of big data and artificial intelligence, the Super Y Series VRF can monitor the operation status of each unit in real time, predict system faults in advance and provide data analysis for system maintenance. Intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

Intelligent Maintenance Tool

With intelligent Bluetooth module or special Bluetooth after-sales kit, the data of the outdoor unit can be directly read and written on your smart phone without the needs of connecting PC or opening cabinet.



*The Bluetooth module is available as a customization option.

Real-time Monitoring of Operating Parameters

The Super Y Series VRF synchronizes and stores all the unit parameters to the cloud through the data cloud gateway, including the running status, locking status, dirty blocking rate, all spot inspection parameters and so on. Users can query real-time and historical parameters on computers, tablets and mobile phones at any time.

Cloud-based Big Data Analytics

Super Y Series VRF transmits the system operation data to the cloud in real time through the data cloud gateway, and timely reminds the system of abnormal conditions through big data analysis, helping users to proactively avoid the risk of failure that has not yet occurred and minimize hidden problems.

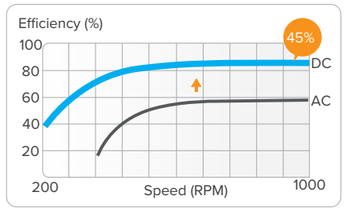
*The data cloud gateway is still under development and needs to be purchased separately.

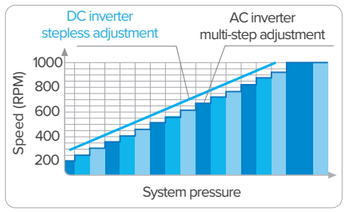
High Efficiency

Full DC Inverter Technology

Full DC Inverter for Outdoor Components

The Super Y Series VRF uses full DC inverter compressor and fan motor to achieve high precision stepless speed adjustment according to system operation, and ensures that the system is always in optimum condition, operating more efficiently, more consistently and with less noise.





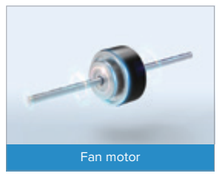
Wider frequency adjustment range

Faster cooling and heating

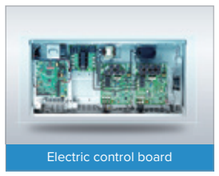
Higher energy efficiency

Full DC Inverter for Indoor Components

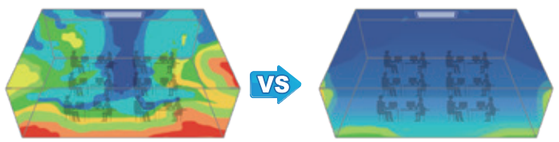
All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.


Fan motor


Drain pump

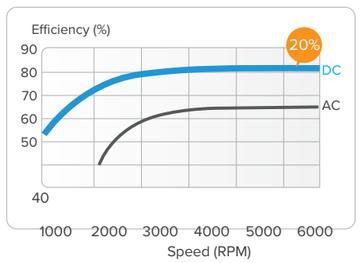

Electric control board

20%
Efficiency improvements



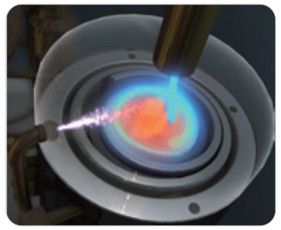
Uneven temperature distribution

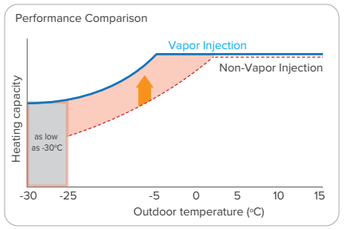
Uniform temperature distribution



Enhanced Vapor Injection (EVI) Compressor

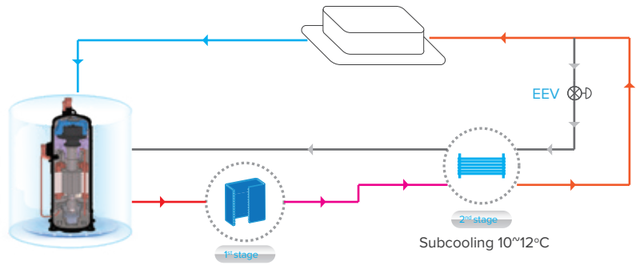
The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves both cooling and heating capacity.





Advanced Subcooling Technology

The Super Y Series VRF uses a micro-channel heat exchanger to further cool the refrigerant and the refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound of refrigerant flow.

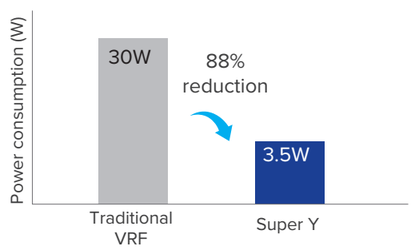


Subcooling 10~12°C

Subcooling 3~5°C

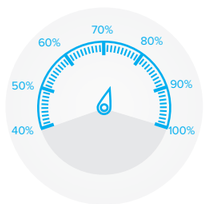
Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the Super Y Series VRF uses optimized control scheme to further reduce standby power consumption to as low as 3.5W.



60-step Energy Management

For projects with temporary electricity supply restrictions, the outdoor unit supports 60-step energy management which can be set to output 40-100% capacity in 1% increments. It prevents tripping during electricity supply restriction conditions and remains system continue to operate.



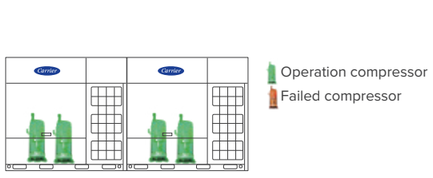
High Reliability

Quadruple Backup

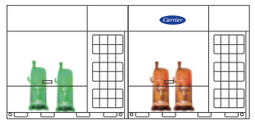
In two fans, two compressors and multiple units, one can run in backup for another. Additionally, the Super Y series VRF generates a corresponding virtual sensor for each physical sensor by means of a digital algorithm, which serves as a backup for each other, ensuring no shutdown in the event of a fault, and further guaranteeing comfort.

1 Unit Backup

In a multi-unit system, the different units act as a backup to each other, ensuring that the system can continue to operate if one unit fails.



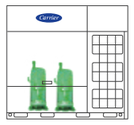
Intelligent load-bearing between units during normal operation



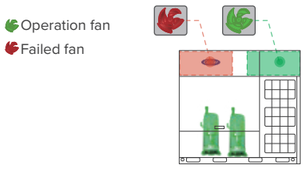
Continue operating in case of failure of one unit

2 Fan Backup

In unit with two fans, the two fans act as a backup to each other, ensuring that the system can continue to operate if one fan fails.



In normal operation, each fan runs on demand



Automatic backup operation of another fan in case of failure of one fan

3 Compressor Backup

In unit with two compressors, the two compressors act as a backup to each other, ensuring that the system can continue to operate if one compressor fails.

Intelligent load-bearing between compressors during normal operation

Continue operating in case of failure of one compressor

4 Sensor Backup

New & Unique

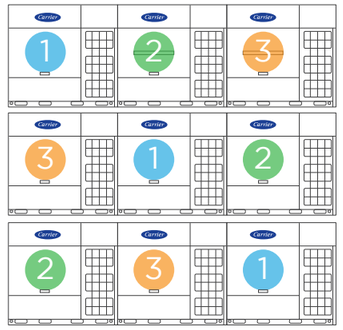
Through digital algorithms, each physical sensor generates a corresponding virtual sensor that acts as a backup to each other, ensuring that the failure of one sensor does not affect the normal operation of the system.

Automatic backup operation of the corresponding virtual sensor in case of failure of one physical sensor

Double Duty Cycling

1 Unit Duty Cycling

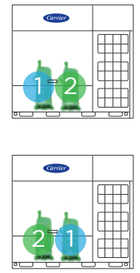
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



Note: The duty cycling sequence shown in the figure is only a schematic reference. The actual duty cycling sequence is not a fixed sequence. Please refer to the technical manual for specific rotation rules.

2 Compressor Duty Cycling

In units with two compressors, duty cycling equalizes the running time of each compressor, significantly extending compressor lifespan.



Compressor start-up sequence

Sealed Box

IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system reliability.

Anti-corrosion

Dustproof

Rain & snow proof

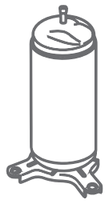
Insect proof

Comprehensive Sensor

Super Y Series VRF uses up to 19 sensors for each outdoor unit and 4 sensors for each indoor unit. The operating status of the system refrigerant is clearly visible, which can realize intelligent analysis of operation parameters, intelligent error diagnosis and forecasting, and visualized energy saving.

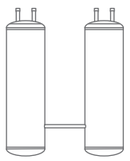
Precise Oil Control

Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

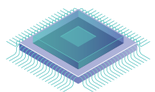


1 Compressor internal oil separation.

2 High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.



3 Oil balance pipes between gas-liquid separator ensure even oil distribution to keep compressors running normally.



4 The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

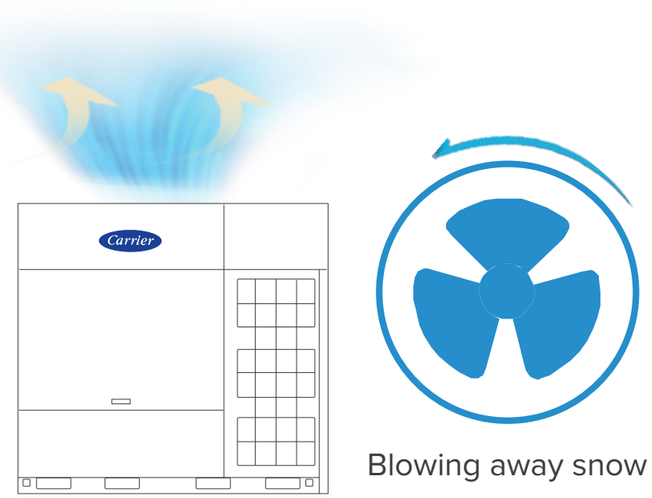
Heavy Anti-corrosion Protection*

Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.

*Heavy anti-corrosion treatment is available as a customization option.

Auto Snow-blowing Function

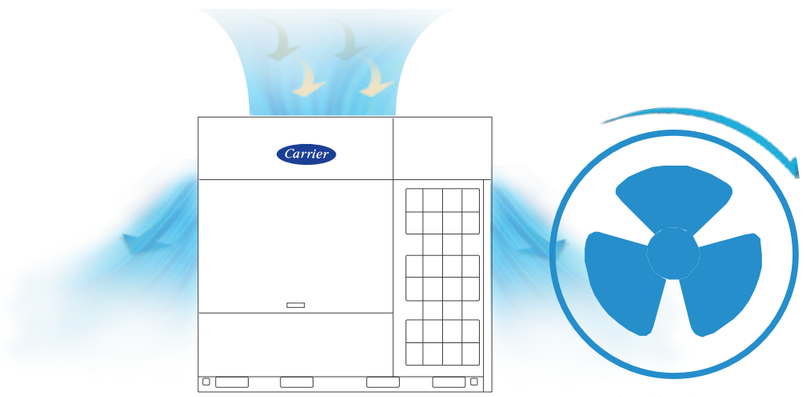
The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.



Blowing away snow

Auto Dust-clean Function

The innovatively designed dust-clean function enables the outdoor unit to prevent the dust by itself.

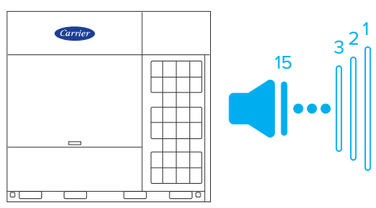


Self-clean

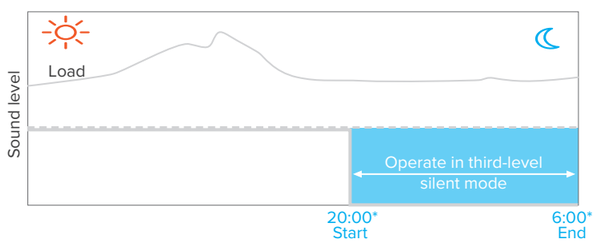
Enhanced Comfort

Advanced Silent Technology

15-step silent mode plus night silent mode provide more freedom and convenience to match the customer needs.



15 silent options

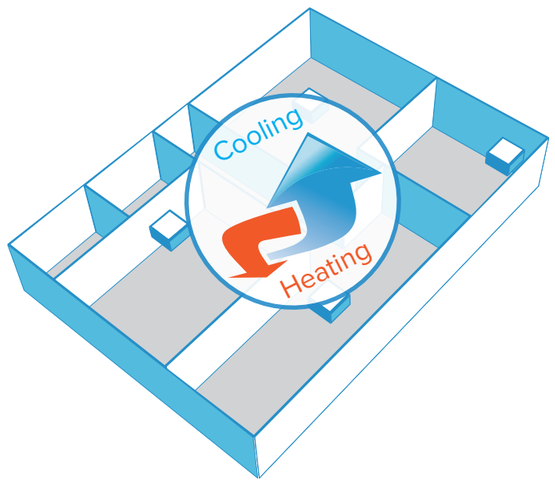


Night silent mode

*The entry and exit time of the night silent mode can be set in the wired controller.

Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.

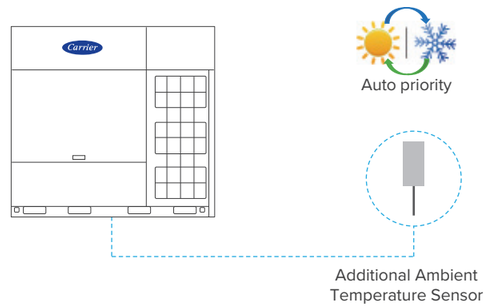


10 Priority Modes

10 priority mode options provide more freedom and convenience to match the customer needs.

Additional Ambient Temperature Sensor*

The Super Y Series VRF can be equipped with an additional external ambient temperature sensor to determine whether the system is operating in cooling or heating in auto priority mode. For some installations, the ambient temperature sensor fixed on the unit cannot detect the true ambient temperature, resulting in the system operating in an inappropriate mode and affecting indoor comfort. The external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is running in cooling or heating, ensuring indoor comfort.



*This function is available as a customization option.

Wide Application Range

Wide Capacity Range

The Super Y Series VRF are available in individual series and combinable series. The individual series has capacities from 8HP to 42HP and the combinable series from 8HP to 120HP, perfectly suited for small to large buildings.

Super Y - Combinable Series

Note: Four units combination are possible for the 8-24 HP models, for four units combination please contact Carrier.

Super Yi - Individual Series

Wide Range of Indoor Units

The Super Y Series VRF offers 12 types of over 100 models of indoor units to meet different scenarios of applications such as offices, shopping malls, hotels, airports, schools, hospitals, etc.

Wide Operation Range

Thanks to the EVI compressor and refrigerant cooling technology, the Super Y Series VRF can operate at temperatures as low as -30°C for heating and up to 55°C for cooling.

Long Piping Capability

The total piping length of the Super Y system can be up to 1100m, the level difference between indoor and outdoor units can be up to 110m and the level difference between indoor units can be up to 40m, making the Super Y Series VRF perfectly suitable for all buildings.

Total piping length: **1100m**

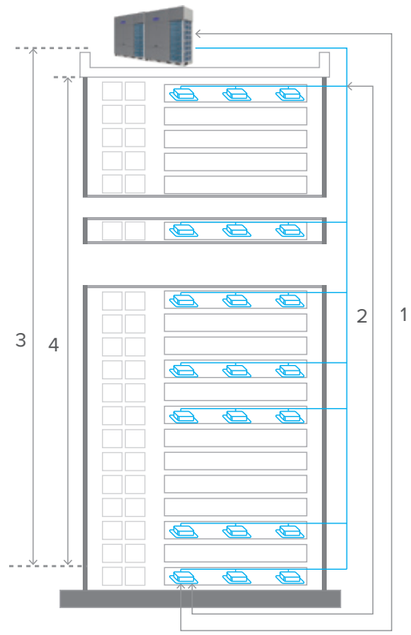
1 Longest piping length - actual (equivalent): **220(260)m**

2 Longest piping length after first branch: **40/120*m**

3 Level difference between IDUs and ODU - ODU above (below): **110(110)m**

4 Level difference between IDUs: **40m**

*The longest length after first branch is 40m as standard but can be extended to up to 120m under certain conditions. Please contact your local dealer for further information.



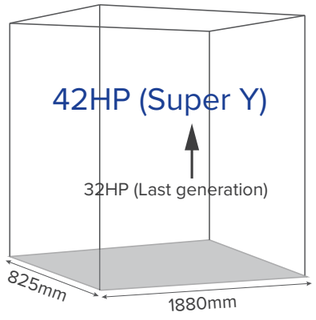
Easy Installation and Service

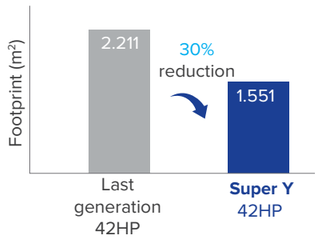
SmartLink

SmartLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing the installation cost and the possibility of incorrect connection. It has stronger anti-interference ability, achieving communication distance up to 2000m.

Space Saving

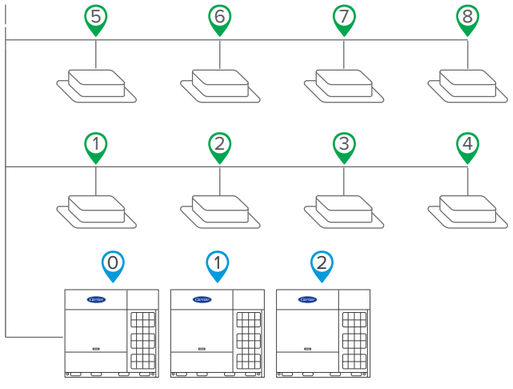
The Super Y Series VRF has large capacity and small size, with a capacity of up to 42HP in a single unit. A single unit can provide cooling/heating for a space of 500m^2. The space-saving advantages are particularly obvious for large projects.





Auto Addressing

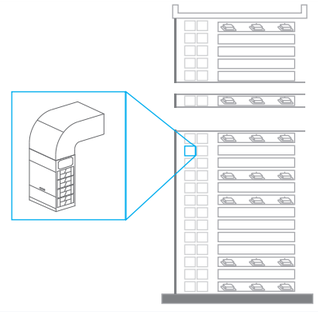
Addresses for all indoor units and combined outdoor units can be assigned automatically by the Super Y system, further simplifying installation.



External Static Pressure up to 120Pa*

The static pressure of the outdoor unit can be up to 120Pa which facilitates installation of the unit on each floor of high-rise building or on balconies.

*External static pressure above 20Pa is available as a customization option.



Automatic Refrigerant Charging*

Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

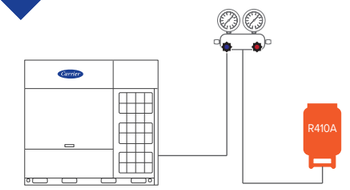
Manual refrigerant charging

1. Calculate additional refrigerant quantity
2. Connect refrigerant tank to the outdoor unit & start filling process
3. Observe the weight scale to check the refrigerant charge
4. Close the shut-off valve manually & finish filling process

*This function is available as a customization option.

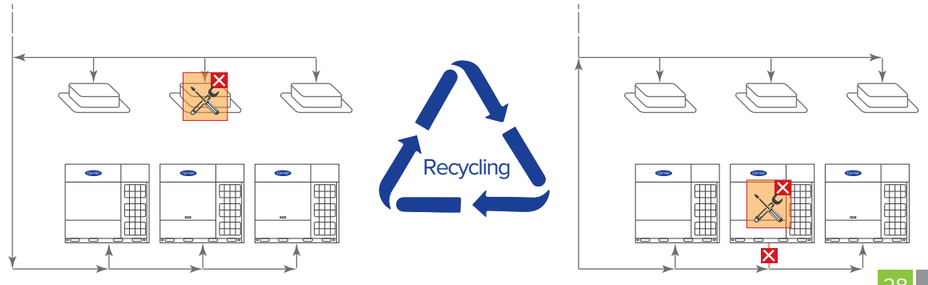
Automatic refrigerant charging

1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish filling process



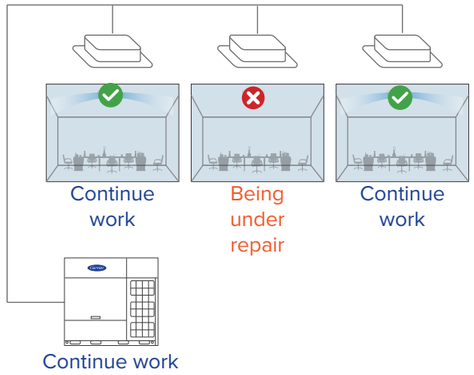
Automatic Refrigerant Recycling

When an indoor unit fails, the refrigerant can be recycled into the outdoor units. When part of the outdoor unit fails, the refrigerant can be recycled into the indoor units and the normal outdoor unit. Two types of refrigerant recycling make the maintenance easier and more efficient.



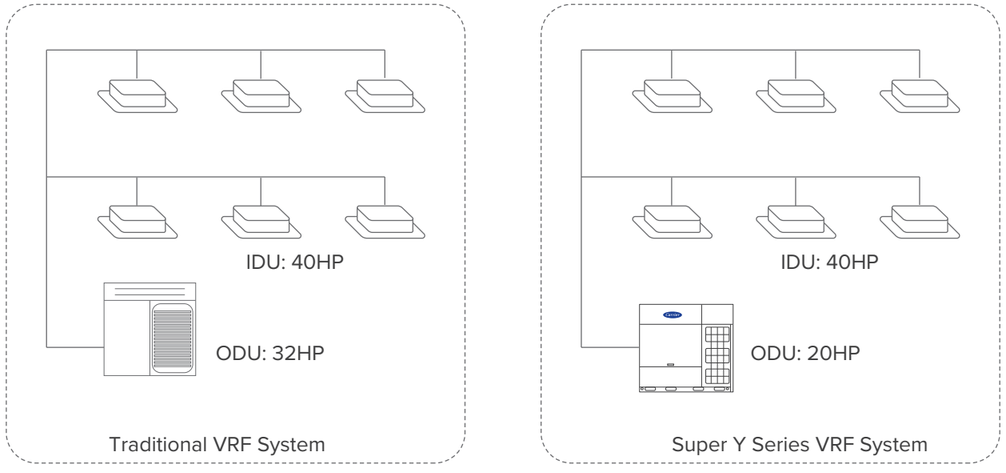
Maintenance Mode

The maintenance mode allows the shutdown of some indoor units without shutting down the whole VRF system, and it can be activated on site during maintenance period as the remaining indoor units continue to operate.



Wide Combination Ratio*

Compared to traditional VRF with combination ratio of 50-130%, the Super Y Series VRF can be extended to 50-200%, and the wider combination ratio allows for more flexible system configuration. The larger combination ratio can be applied to long-term part-load operation scenarios, allowing for further reduction in installation costs.



*Combination ratio over 130% is available as a customization option.

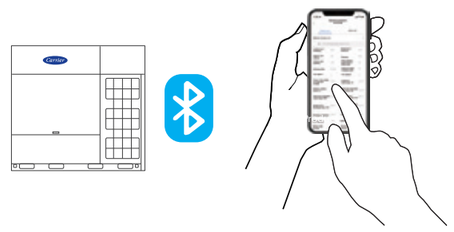
Easy Software Program Upgrade

In addition to upgrading the program of outdoor and indoor units through USB and burner, the new product can also remotely upgrade all the programs of indoor and outdoor units through data cloud gateway, making system upgrades very convenient and ensuring that the system program is always up to date.

*The data cloud gateway is still under development and needs to be purchased separately.

Smart Commissioning/Maintenance Tool

With the newly developed smart tool (Bluetooth module and special Bluetooth after-sales kit), system settings, operating parameter queries, trial runs and programme upgrades are all possible without opening the cabinet.

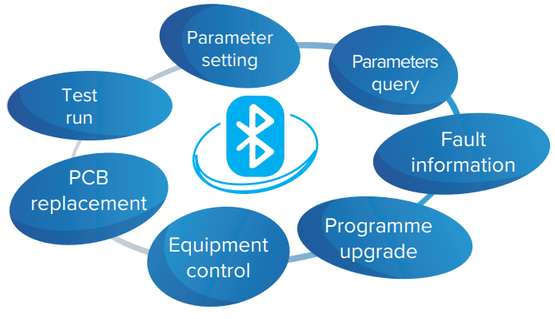


Useful in the following situations:

- Installation
- Service maintenance

Main functions:

- Fault information storage
- Operating parameters query
- Start commissioning test run
- System parameter setting
- Quick after-sales PCB replacement
- Equipment control
- Indoor and outdoor units programme upgrade



SPECIFICATIONS

SUPER Y/SUPER Yi

Super Y (Combinable series)

HP			8	10	12	14
Model			38VF008H119018	38VF010H119018	38VF012H119018	38VF014H119018
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	85.9	95.5	114.2	136.4
	Power input	kW	5.3	6.6	8.2	9.8
	EER		4.76	4.25	4.11	4.08
Heating[2]	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.4	127.9	153.5
	Power input	kW	5.3	6.4	8.3	10.2
	COP		5.12	4.89	4.51	4.40
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		13	16	19	23
Compressors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
	Airflow rate	m^3/h	12600	12600	13500	15600
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	7	7	7	8
Pipe connections[3]	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4	Φ28.6
Sound pressure level[4]		dB(A)	56	57	59	59
Sound power level[4]		dB(A)	83	84	85	86
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	195	195	195	218
Gross weight		kg	213	213	213	236
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			16	18	20	22
Model			38VF016H119018	38VF018H119018	38VF020H119018	38VF022H119018
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.5	191.0	209.7
	Power input	kW	11.4	12.7	15.0	17.3
	EER		3.95	3.93	3.73	3.56
Heating[2]	Capacity	kW	50.0	56.0	63.0	69.0
		kBtu/h	170.5	191.0	214.8	235.3
	Power input	kW	11.5	13.5	15.3	17.6
	COP		4.36	4.16	4.13	3.92
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		26	29	33	36
Compressors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	2	2
	Airflow rate	m^3/h	15600	16500	22000	22000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8	8.4	9.3	9.3
Pipe connections[3]	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Sound pressure level[4]		dB(A)	60	61	62	62
Sound power level[4]		dB(A)	86	88	89	89
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	218	218	277	277
Gross weight		kg	236	236	297	297
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			24	26	28	30
Model			38VF024H119018	38VF026H119018	38VF028H119018	38VF030H119018
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	67.0	73.0	78.5	85.0
		kBtu/h	228.5	248.9	267.7	289.9
	Power input	kW	18.6	20.8	23.6	26.6
	EER		3.60	3.51	3.32	3.20
Heating[2]	Capacity	kW	75.0	81.5	87.5	95.0
		kBtu/h	255.8	277.9	298.4	324.0
	Power input	kW	19.0	20.8	24.0	27.1
	COP		3.95	3.92	3.65	3.50
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		39	43	46	50
Compressors	Type		DC	DC	DC	DC
	Quantity		1	2	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		2	2	2	2
	Airflow rate	m^3/h	21500	29000	29000	28000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	12	19	19	21
Pipe connections[3]	Liquid pipe	mm	Φ15.9	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ28.6	Φ31.8	Φ31.8	Φ34.9
Sound pressure level[4]		dB(A)	62	62	63	64
Sound power level[4]		dB(A)	92	93	93	93
Net dimensions (W×H×D)		mm	1340×1760×825	1880×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1410×1945×890	1935×1945×890	1935×1945×890	1935×1945×890
Net weight		kg	297	380	380	419
Gross weight		kg	317	405	405	444
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			32	34	36	38	40
Model			38VF032H119018	38VF034H119018	38VF036H119018	38VF038H119018	38VF040H119018
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	90.0	95.2	101.0	106.0	112.0
		kBtu/h	306.9	324.6	344.4	361.5	381.9
	Power input	kW	29.5	31.7	34.0	36.4	39.9
	EER		3.05	3.00	2.97	2.91	2.81
Heating[2]	Capacity	kW	100.0	106.0	112.0	119.0	123.5
		kBtu/h	341.0	361.5	381.9	405.8	421.1
	Power input	kW	29.4	31.7	33.9	37.0	39.1
	COP		3.40	3.34	3.30	3.22	3.16
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		53	56	59	62	64
Compressors	Type		DC	DC	DC	DC	DC
	Quantity		2	2	2	2	2
Fan motors	Type		DC	DC	DC	DC	DC
	Quantity		2	2	2	2	2
	Airflow rate	m^3/h	28000	29000	29000	30000	30000
	Static pressure	Pa	0-20 (standard)20-120 (customized)				
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Factory charge	kg	21	21	21	24	24
Pipe connections[3]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ34.9	Φ34.9	Φ34.9	Φ34.9	Φ34.9
Sound pressure level[4]		dB(A)	64	66	66	67	67
Sound power level[4]		dB(A)	93	94	94	94	94
Net dimensions (W×H×D)		mm	1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1935×1945×890	1935×1945×890	1935×1945×890	1935×1945×890	1935×1945×890
Net weight		kg	419	420	420	440	440
Gross weight		kg	444	445	445	465	465
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			42	44	46	48
Model (Combination unit)			38VF042H119018	38VF044H119018	38VF046H119018	38VF048H119018
Combination type			18HP+24HP	22HP+22HP	22HP+24HP	24HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	117.0	123.0	128.5	134.0
		kBtu/h	399.0	419.4	438.2	456.9
	Power input	kW	31.3	34.6	35.9	37.2
	EER		3.74	3.55	3.58	3.60
Heating[2]	Capacity	kW	131.0	138.0	144.0	150.0
		kBtu/h	446.7	470.6	491.0	511.5
	Power input	kW	32.4	35.2	36.6	38.0
	COP		4.04	3.92	3.93	3.95
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		2	2	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		3	4	4	4
	Airflow rate	m^3/h	38000	44000	43500	43000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8.4+12	9.3×2	9.3+12	12×2
Pipe connections[3]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[4]		dB(A)	65	65	65	65
Sound power level[4]		dB(A)	94	92	94	95
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)	(1410×1945×890)×2	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	218+297	277×2	277+297	297×2
Gross weight		kg	236+317	297×2	297+317	317×2
Ambient temp. operation range	Cooling	℃(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	℃(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			50	52	54	56
Model (Combination unit)			38VF050H119018	38VF052H119018	38VF054H119018	38VF056H119018
Combination type			14HP+36HP	16HP+36HP	22HP+32HP	16HP+40HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	141.0	146.0	151.5	157.0
		kBtu/h	480.8	497.9	516.6	535.4
	Power input	kW	43.8	45.4	46.8	51.3
	EER		3.22	3.22	3.24	3.06
Heating[2]	Capacity	kW	157.0	162.0	169.0	173.5
		kBtu/h	535.4	552.4	576.3	591.6
	Power input	kW	44.2	45.4	47.0	50.6
	COP		3.55	3.57	3.60	3.43
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		3	3	3	3
Fan motors	Type		DC	DC	DC	DC
	Quantity		3	3	4	3
	Airflow rate	m^3/h	44600	44600	50000	45600
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8+21	8+21	9.3+21	8+24
Pipe connections[3]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1	Φ41.3
Sound pressure level[4]		dB(A)	67	67	67	68
Sound power level[4]		dB(A)	95	95	95	95
Net dimensions (W×H×D)		mm	(940×1760×825)+(1880×1760×825)	(940×1760×825)+(1880×1760×825)	(1340×1760×825)+(1880×1760×825)	(940×1760×825)+(1880×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1935×1945×890)	(1010×1945×890)+(1935×1945×890)	(1410×1945×890)+(1935×1945×890)	(1010×1945×890)+(1935×1945×890)
Net weight		kg	218+420	218+420	277+419	218+440
Gross weight		kg	236+445	236+445	297+444	236+465
Ambient temp. operation range	Cooling	℃(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	℃(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			58	60	62	64
Model (Combination unit)			38VF058H119018	38VF060H119018	38VF062H119018	38VF064H119018
Combination type			22HP+36HP	24HP+36HP	22HP+40HP	24HP+40HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	162.5	168.0	173.5	179.0
		kBtu/h	554.1	572.9	591.6	610.4
	Power input	kW	51.3	52.6	57.1	58.5
	EER		3.17	3.19	3.04	3.06
Heating[2]	Capacity	kW	181.0	187.0	192.5	198.5
		kBtu/h	617.2	637.7	656.4	676.9
	Power input	kW	51.5	52.9	56.7	58.1
	COP		3.51	3.53	3.40	3.42
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		3	3	3	3
Fan motors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
	Airflow rate	m^3/h	51000	50500	52000	51500
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3+21	12+21	9.3+24	12+24
Pipe connections[3]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ41.3	Φ41.3	Φ41.3	Φ41.3
Sound pressure level[4]		dB(A)	68	68	68	68
Sound power level[4]		dB(A)	95	95	95	96
Net dimensions (W×H×D)		mm	(1340×1760×825)+(1880×1760×825)	(1340×1760×825)+(1880×1760×825)	(1340×1760×825)+(1880×1760×825)	(1340×1760×825)+(1880×1760×825)
Packed dimensions (W×H×D)		mm	(1410×1945×890)+(1935×1945×890)	(1410×1945×890)+(1935×1945×890)	(1410×1945×890)+(1935×1945×890)	(1410×1945×890)+(1935×1945×890)
Net weight		kg	277+420	297+420	277+440	297+440
Gross weight		kg	297+445	317+445	297+465	317+465
Ambient temp. operation range	Cooling	℃(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	℃(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			66	68	70	72
Model (Combination unit)			38VF066H119018	38VF068H119018	38VF070H119018	38VF072H119018
Combination type			32HP+34HP	32HP+36HP	34HP+36HP	36HP+36HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	185.2	191.0	196.2	202.0
		kBtu/h	631.5	651.3	669.0	688.8
	Power input	kW	61.2	63.5	65.7	68.0
	EER		3.03	3.01	2.99	2.97
Heating[2]	Capacity	kW	206.0	212.0	218.0	224.0
		kBtu/h	702.5	722.9	743.4	763.8
	Power input	kW	61.1	63.4	65.7	67.9
	COP		3.37	3.34	3.32	3.30
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
Fan motors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
	Airflow rate	m^3/h	57000	57000	58000	58000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	21×2	21×2	21×2	21×2
Pipe connections[3]	Liquid pipe	mm	Φ19.1	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ41.3	Φ44.5	Φ44.5	Φ44.5
Sound pressure level[4]		dB(A)	68	68	69	69
Sound power level[4]		dB(A)	97	97	97	97
Net dimensions (W×H×D)		mm	(1880×1760×825)×2	(1880×1760×825)×2	(1880×1760×825)×2	(1880×1760×825)×2
Packed dimensions (W×H×D)		mm	(1935×1945×890)×2	(1935×1945×890)×2	(1935×1945×890)×2	(1935×1945×890)×2
Net weight		kg	419+420	419+420	419+420	420×2
Gross weight		kg	444+445	444+445	444+445	445×2
Ambient temp. operation range	Cooling	℃(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	℃(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			74	76	78	80
Model (Combination unit)			38VF074H119018	38VF076H119018	38VF078H119018	38VF080H119018
Combination type			36HP+38HP	36HP+40HP	38HP+40HP	40HP+40HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	207.0	213.0	218.0	224.0
		kBtu/h	705.9	726.3	743.4	763.8
	Power input	kW	70.4	73.9	76.3	79.7
	EER		2.94	2.88	2.86	2.81
Heating[2]	Capacity	kW	231.0	235.5	242.5	247.0
		kBtu/h	787.7	803.1	826.9	842.3
	Power input	kW	70.9	73.0	76.0	78.2
	COP		3.26	3.23	3.19	3.16
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
Fan motors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
	Airflow rate	m^3/h	59000	59000	60000	60000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	21+24	21+24	24×2	24×2
Pipe connections[3]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5	Φ44.5
Sound pressure level[4]		dB(A)	70	70	70	70
Sound power level[4]		dB(A)	97	97	97	97
Net dimensions (W×H×D)		mm	(1880×1760×825)×2	(1880×1760×825)×2	(1880×1760×825)×2	(1880×1760×825)×2
Packed dimensions (W×H×D)		mm	(1935×1945×890)×2	(1935×1945×890)×2	(1935×1945×890)×2	(1935×1945×890)×2
Net weight		kg	420×2	420+440	440×2	440×2
Gross weight		kg	445×2	440+465	465×2	465×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			82	84	86	88
Model (Combination unit)			38VF082H119018	38VF084H119018	38VF086H119018	38VF088H119018
Combination type			22HP+24HP+36HP	24HP+24HP+36HP	22HP+24HP+40HP	24HP+24HP+40HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	229.5	235.0	240.5	246.0
		kBtu/h	782.6	801.4	820.1	838.9
	Power input	kW	69.9	71.2	75.7	77.1
	EER		3.28	3.30	3.18	3.19
Heating[2]	Capacity	kW	256.0	262.0	267.5	273.5
		kBtu/h	873.0	893.4	912.2	932.6
	Power input	kW	70.5	71.9	75.7	77.1
	COP		3.63	3.64	3.53	3.55
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
Fan motors	Type		DC	DC	DC	DC
	Quantity		6	6	6	6
	Airflow rate	m^3/h	72500	72000	73500	73000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3+12+21	12×2+21	9.3+12+24	12×2+24
Pipe connections[3]	Liquid pipe	mm	Φ22.2	Φ25.4	Φ25.4	Φ25.4
	Gas pipe	mm	Φ44.5	Φ50.8	Φ50.8	Φ50.8
Sound pressure level[4]		dB(A)	69	69	69	69
Sound power level[4]		dB(A)	97	97	97	97
Net dimensions (W×H×D)		mm	(1340×1760×825)×2+(1880×1760×825)	(1340×1760×825)×2+(1880×1760×825)	(1340×1760×825)×2+(1880×1760×825)	(1340×1760×825)×2+(1880×1760×825)
Packed dimensions (W×H×D)		mm	(1410×1945×890)×2+(1935×1945×890)	(1410×1945×890)×2+(1935×1945×890)	(1410×1945×890)×2+(1935×1945×890)	(1410×1945×890)×2+(1935×1945×890)
Net weight		kg	277+297+420	297×2+420	277+297+440	297×2+440
Gross weight		kg	297+317+445	317×2+445	297+317+465	317×2+465
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			90	92	94	96
Model (Combination unit)			38VF090H119018	38VF092H119018	38VF094H119018	38VF096H119018
Combination type			18HP+36HP+36HP	20HP+36HP+36HP	22HP+36HP+36HP	24HP+36HP+36HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	252.0	258.0	263.5	269.0
		kBtu/h	859.3	879.8	898.5	917.3
	Power input	kW	80.7	83.0	85.3	86.6
	EER		3.12	3.11	3.09	3.11
Heating[2]	Capacity	kW	280.0	287.0	293.0	299.0
		kBtu/h	954.8	978.7	999.1	1019.6
	Power input	kW	81.3	83.1	85.5	86.9
	COP		3.44	3.45	3.43	3.44
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		5	5	5	5
Fan motors	Type		DC	DC	DC	DC
	Quantity		5	6	6	6
	Airflow rate	m^3/h	74500	80000	80000	79500
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8.4+21×2	9.3+21×2	9.3+21×2	12+21×2
Pipe connections[3]	Liquid pipe	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
	Gas pipe	mm	Φ50.8	Φ50.8	Φ50.8	Φ50.8
Sound pressure level[4]		dB(A)	70	70	70	70
Sound power level[4]		dB(A)	98	98	98	98
Net dimensions (W×H×D)		mm	(940×1760×825)+(1880×1760×825)×2	(1340×1760×825)+(1880×1760×825)×2	(1340×1760×825)+(1880×1760×825)×2	(1340×1760×825)+(1880×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1935×1945×890)×2	(1410×1945×890)+(1935×1945×890)×2	(1410×1945×890)+(1935×1945×890)×2	(1410×1945×890)+(1935×1945×890)×2
Net weight		kg	218+420×2	277+420×2	277+420×2	297+420×2
Gross weight		kg	236+445×2	297+445×2	297+445×2	317+445×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			98	100	102	104
Model (Combination unit)			38VF098H119018	38VF100H119018	38VF102H119018	38VF104H119018
Combination type			22HP+36HP+40HP	28HP+36HP+36HP	20HP+40HP+40HP	32HP+36HP+36HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	274.5	280.5	280.0	292.0
		kBtu/h	936.0	956.5	954.8	995.7
	Power input	kW	91.1	91.7	94.7	97.5
	EER		3.01	3.06	2.96	2.99
Heating[2]	Capacity	kW	304.5	311.5	310.0	324.0
		kBtu/h	1038.3	1062.2	1057.1	1104.8
	Power input	kW	90.6	91.9	93.4	97.3
	COP		3.36	3.39	3.32	3.33
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		5	6	5	6
Fan motors	Type		DC	DC	DC	DC
	Quantity		6	6	6	6
	Airflow rate	m^3/h	81000	87000	82000	86000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3+21+24	19+21×2	9.3+24×2	21×3
Pipe connections[3]	Liquid pipe	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
	Gas pipe	mm	Φ50.8	Φ50.8	Φ50.9	Φ50.10
Sound pressure level[4]		dB(A)	70	70	70	70
Sound power level[4]		dB(A)	98	99	98	99
Net dimensions (W×H×D)		mm	(1340×1760×825)+(1880×1760×825)×2	(1880×1760×825)×3	(1340×1760×825)+(1880×1760×825)×2	(1880×1760×825)×3
Packed dimensions (W×H×D)		mm	(1410×1945×890)+(1935×1945×890)×2	(1935×1945×890)×3	(1410×1945×890)+(1935×1945×890)×2	(1935×1945×890)×3
Net weight		kg	277+420+440	380+420×2	277+440×2	419+420×2
Gross weight		kg	297+445+465	405+445×2	297+465×2	444+445×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			106	108	110	112
Model (Combination unit)			38VF106H119018	38VF108H119018	38VF110H119018	38VF112H119018
Combination type			34HP+36HP+36HP	36HP+36HP+36HP	36HP+36HP+38HP	36HP+36HP+40HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	297.2	303.0	308.0	314.0
		kBtu/h	1013.5	1033.2	1050.3	1070.7
	Power input	kW	99.7	102.0	104.4	107.9
	EER		2.98	2.97	2.95	2.91
Heating[2]	Capacity	kW	330.0	336.0	343.0	347.5
		kBtu/h	1125.3	1145.8	1169.6	1185.0
	Power input	kW	99.6	101.8	104.8	107.0
	COP		3.31	3.30	3.27	3.25
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		6	6	6	6
Fan motors	Type		DC	DC	DC	DC
	Quantity		6	6	6	6
	Airflow rate	m^3/h	87000	87000	88000	88000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	21×3	21×3	21×2+24	21×2+24
Pipe connections[3]	Liquid pipe	mm	Φ25.4	Φ25.4	Φ28.6	Φ28.6
	Gas pipe	mm	Φ50.11	Φ50.8	Φ54.0	Φ54.0
Sound pressure level[4]		dB(A)	71	71	71	71
Sound power level[4]		dB(A)	99	99	99	99
Net dimensions (W×H×D)		mm	(1880×1760×825)×3	(1880×1760×825)×3	(1880×1760×825)×3	(1880×1760×825)×3
Packed dimensions (W×H×D)		mm	(1935×1945×890)×3	(1935×1945×890)×3	(1935×1945×890)×3	(1935×1945×890)×3
Net weight		kg	420×3	420×3	420×2+440	420×2+440
Gross weight		kg	445×3	445×3	445×2+465	445×2+465
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			114	116	118	120
Model (Combination unit)			38VF114H119018	38VF116H119018	38VF118H119018	38VF120H119018
Combination type			36HP+38HP+40HP	36HP+40HP+40HP	38HP+40HP+40HP	40HP+40HP+40HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	319.0	325.0	330.0	336.0
		kBtu/h	1087.8	1108.3	1125.3	1145.8
	Power input	kW	110.3	113.7	116.1	119.6
	EER		2.89	2.86	2.84	2.81
Heating[2]	Capacity	kW	354.5	359.0	366.0	370.5
		kBtu/h	1208.8	1224.2	1248.1	1263.4
	Power input	kW	110.0	112.1	115.1	117.2
	COP		3.22	3.20	3.18	3.16
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		64	64	64	64
Compressors	Type		DC	DC	DC	DC
	Quantity		6	6	6	6
Fan motors	Type		DC	DC	DC	DC
	Quantity		6	6	6	6
	Airflow rate	m^3/h	89000	89000	90000	90000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	21+24×2	21+24×2	24×3	24×3
Pipe connections[3]	Liquid pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
	Gas pipe	mm	Φ54.0	Φ54.0	Φ54.0	Φ54.0
Sound pressure level[4]		dB(A)	72	72	72	72
Sound power level[4]		dB(A)	99	99	99	99
Net dimensions (W×H×D)		mm	(1880×1760×825)×3	(1880×1760×825)×3	(1880×1760×825)×3	(1880×1760×825)×3
Packed dimensions (W×H×D)		mm	(1935×1945×890)×3	(1935×1945×890)×3	(1935×1945×890)×3	(1935×1945×890)×3
Net weight		kg	420+440×2	420+440×2	440×3	440×3
Gross weight		kg	445+465×2	445+465×2	465×3	465×3
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Super Yi (Individual series)

HP			8	10	12	14
Model			38VF008H119018-i	38VF010H119018-i	38VF012H119018-i	38VF014H119018-i
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	85.9	95.5	114.2	136.4
	Power input	kW	5.5	6.9	8.5	10.4
	EER		4.60	4.05	3.96	3.83
Heating[2]	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.4	127.9	153.5
	Power input	kW	5.6	6.9	8.9	11.2
	COP		4.86	4.58	4.23	4.03
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		13	16	19	23
Compressors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
	Airflow rate	m³/h	12600	12600	13500	15600
	Static pressure	Pa	0-20 (standard) 20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	7	7	7	7
Pipe connections[3]	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Sound pressure level[4]		dB(A)	56	57	59	59
Sound power level[4]		dB(A)	83	84	85	86
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	195	195	195	198
Gross weight		kg	213	213	213	216
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			16	18	20	22
Model			38VF016H119018-i	38VF018H119018-i	38VF020H119018-i	38VF022H119018-i
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.5	191.0	209.7
	Power input	kW	12.2	13.8	16.0	18.1
	EER		3.70	3.62	3.50	3.39
Heating[2]	Capacity	kW	50.0	56.0	63.0	69.0
		kBtu/h	170.5	191.0	214.8	235.3
	Power input	kW	12.6	14.4	16.4	18.7
	COP		3.97	3.88	3.83	3.69
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		26	29	33	36
Compressors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	2	2
	Airflow rate	m³/h	15600	16500	22000	22000
	Static pressure	Pa	0-20 (standard)20-120 (customized)			
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8	8.4	9.3	9.3
Pipe connections[3]	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Sound pressure level[4]		dB(A)	60	61	62	62
Sound power level[4]		dB(A)	86	88	89	89
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	218	218	277	277
Gross weight		kg	236	236	297	297
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

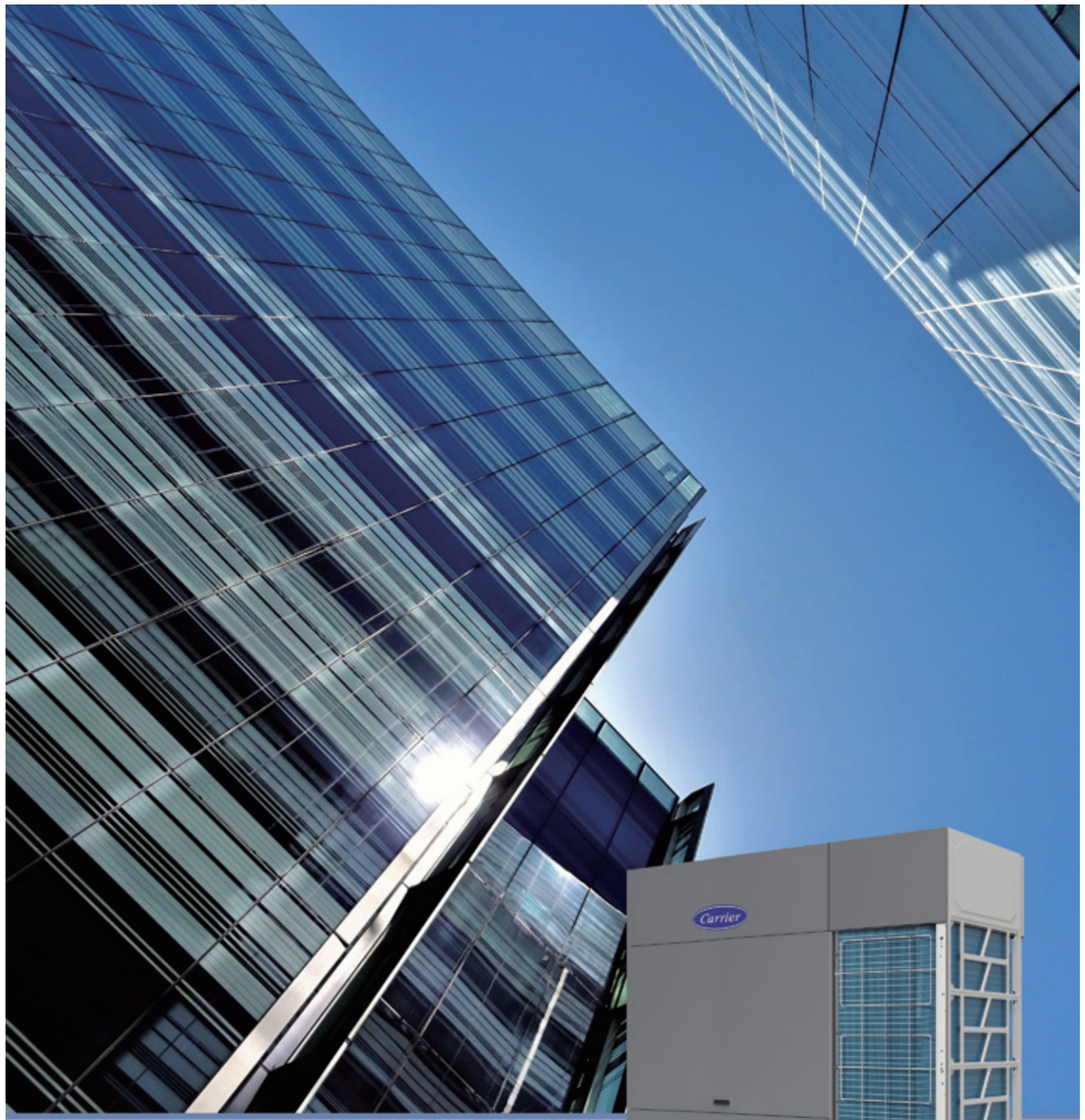
Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			24	26	28	30	32
Model			38VF024H119018-i	38VF026H119018-i	38VF028H119018-i	38VF030H119018-i	38VF324H119018-i
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	67.0	73.0	78.5	85.0	90.0
		kBtu/h	228.5	248.9	267.7	289.9	306.9
	Power input	kW	19.8	22.3	24.5	27.2	30.5
	EER		3.38	3.27	3.20	3.12	2.95
Heating[2]	Capacity	kW	75.0	81.5	87.5	95.0	100.0
		kBtu/h	255.8	277.9	298.4	324.0	341.0
	Power input	kW	20.2	22.1	25.4	28.5	30.4
	COP		3.72	3.68	3.44	3.33	3.29
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		39	43	46	50	53
Compressors	Type		DC	DC	DC	DC	DC
	Quantity		1	2	2	2	2
Fan motors	Type		DC	DC	DC	DC	DC
	Quantity		2	2	2	2	2
	Airflow rate	m³/h	21500	29000	29000	28000	28000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)				
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Factory charge	kg	9.3	19	19	21	21
Pipe connections[3]	Liquid pipe	mm	Φ15.9	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ28.6	Φ31.8	Φ31.8	Φ34.9	Φ34.9
Sound pressure level[4]		dB(A)	62	62	63	64	64
Sound power level[4]		dB(A)	92	93	93	93	93
Net dimensions (W×H×D)		mm	1340×1760×825	1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1410×1945×890	1935×1945×890	1935×1945×890	1935×1945×890	1935×1945×890
Net weight		kg	279	380	380	419	419
Gross weight		kg	299	405	405	444	444
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			34	36	38	40	42
Model			38VF034H119018-i	38VF036H119018-i	38VF038H119018-i	38VF040H119018-i	38VF042H119018-i
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	95.2	101.0	106.0	112.0	117.0
		kBtu/h	324.6	344.4	361.5	381.9	399.0
	Power input	kW	32.8	35.4	37.7	40.7	43.3
	EER		2.90	2.85	2.81	2.75	2.70
Heating[2]	Capacity	kW	106.0	112.0	119.0	123.5	130.0
		kBtu/h	361.5	381.9	405.8	421.1	443.3
	Power input	kW	32.9	35.4	38.3	40.1	42.8
	COP		3.22	3.16	3.11	3.08	3.04
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		56	59	62	64	64
Compressors	Type		DC	DC	DC	DC	DC
	Quantity		2	2	2	2	2
Fan motors	Type		DC	DC	DC	DC	DC
	Quantity		2	2	2	2	2
	Airflow rate	m³/h	29000	29000	30000	30000	30000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)				
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Factory charge	kg	21	21	24	24	24
Pipe connections[3]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ34.9	Φ34.9	Φ34.9	Φ34.9	Φ34.9
Sound pressure level[4]		dB(A)	66	66	67	67	68
Sound power level[4]		dB(A)	94	94	94	94	94
Net dimensions (W×H×D)		mm	1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1935×1945×890	1935×1945×890	1935×1945×890	1935×1945×890	1935×1945×890
Net weight		kg	420	420	440	440	442
Gross weight		kg	445	445	465	465	467
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

OUTDOOR UNITS



Super X Plus (Combination series)

The Super X Plus VRF uses a variety of algorithms and self-learning technology to monitor the operation of the equipment through operating parameters and timely maintenance, so that the equipment always runs in optimal condition throughout its life cycle.

Outdoor Unit Lineup

Super X Plus (Combination series)

HP	8-16	18-24	26
Single Unit			

HP	28-52	54-78
Combined Unit		
	80-96	
		

Note: Four units combination are possible for the 8-24.

Outdoor Unit Functions

Functions			Super X Plus
●: equipped as standard; O: customization option; X: without this function			
Innovative Technologies	CETA 2.0	Triple variable control to maximize the comfort and energy efficiency	●
	CHAE 2.0	Provides comfort and healthy air supply	●
	Doctor 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	●
High Efficiency	Full DC inverter technology	All electrical components of outdoor and indoor units are DC power supply, improving electrical efficiency and achieving energy saving	●
	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation and improves both cooling and heating capacity	●
	Advanced refrigerant subcooling	The refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound	●
	G-type heat exchanger	Large capacity outdoor unit with G-type heat exchanger, which can increase the heat exchanger area and saves floor space	● (26HP)
	60-step energy management	The system can be set 40% to 100% capacity output in 1% increments	●
High Reliability	Duty cycling (unit)	Equalizes the running time of the outdoor units in a multiple-unit system,significantly extending unit lifespan (available for combined unit)	●
	Duty cycling (compressor)	Equalizes the running time of the compressor in each unit, significantly extending compressor lifespan (available for unit with two compressors)	●
	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined unit)	●

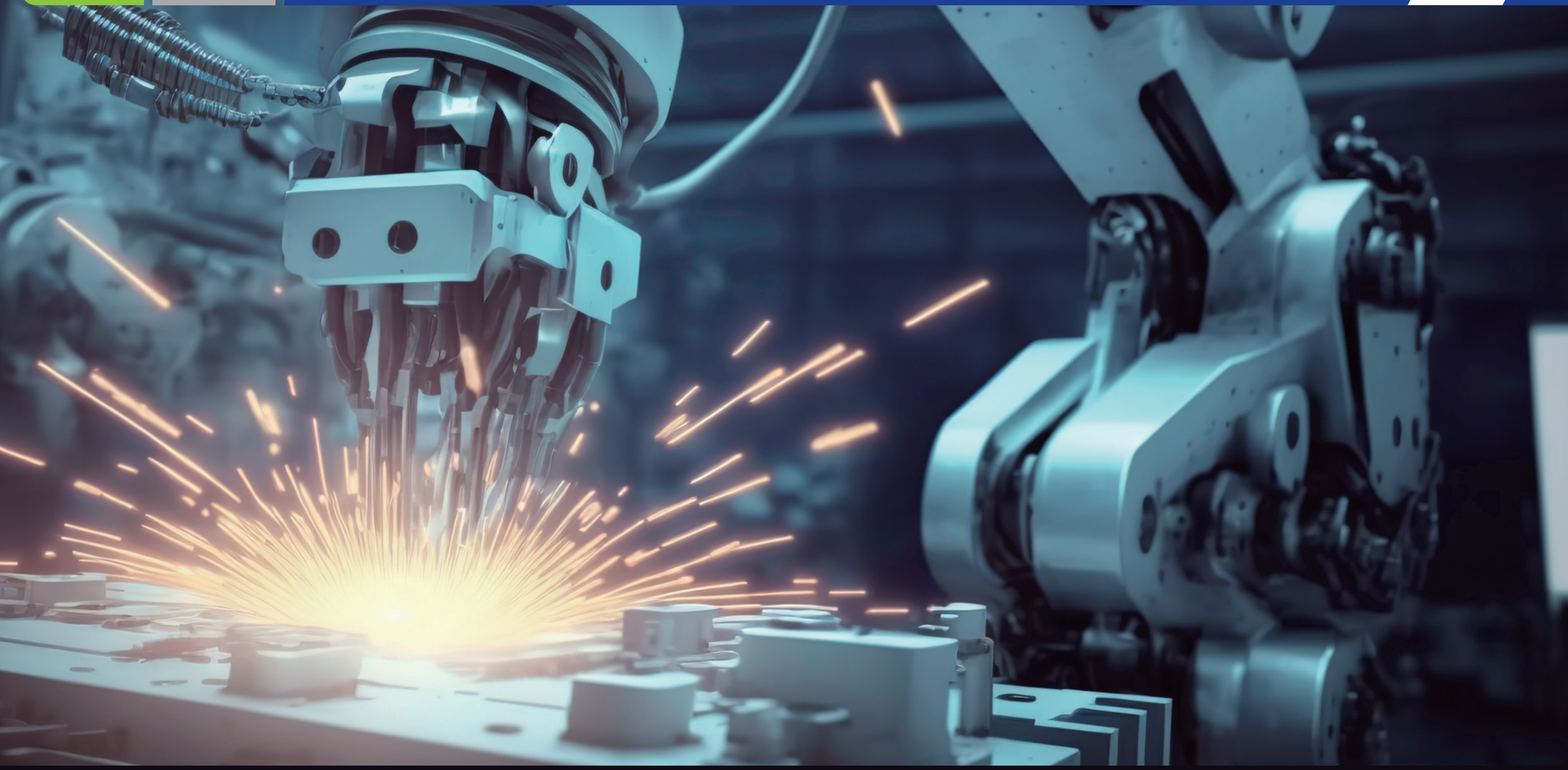
Functions			Super X Plus
●: equipped as standard; O: customization option; X: without this function			
High Reliability	Backup operation (compressor)	If one compressor fails, the other compressor provide backup so that the system can continue operating (available for unit with two compressors)	●
	Backup operation (fan motor)	If one fan motor fails, the other fan motor provide backup so that the system can continue operating (available for unit with two fan motors)	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provide backup so that the system can continue operating	●
	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating any compressor oil shortage problems.	●
	Heavy anti-corrosion protection	Can be customized with heavy anti-corrosion treatment for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life	○
	Refrigerant cooling module technology	10 times higher than ordinary refrigerant pipe cooling efficiency	●
	Chassis electrical heater	Prevents condensation on the chassis from freezing in winter	○
	Anti-snow shield	Prevents the snow accumulating on the outdoor unit, guaranteeing the unit operating stable in snowy days	○
	Auto snow-blowing function	Blows away accumulated snow on the outdoor unit, guaranteeing the unit operating stable in snowy days	●
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing the unit operating stable in dusty environment	○
	Alarm output	In case of system malfunction, remote output error information, remind maintenance personnel timely maintenance	○
	Fire alarm input	In case of fire, receive fire information in time and stop the system immediately to avoid serious problems	●

Outdoor Unit Functions

Functions			Super X Plus
●: equipped as standard; O: customization option; X: without this function			
Enhanced Comfort	Silent mode	15-step silent mode selections provide more freedom and convenience to match the customer needs	●
	Intelligent defrosting technology	Calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting	●
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature (available in changeover priority mode)	●
	Additional ambient temperature sensor	The additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is running in cooling or heating in auto priority mode, ensuring indoor comfort	○
	Multiple priority modes	10 priority modes meet the requirements of all scenarios	●
Wide Application Range	Wide capacity range	Meets all customer requirements from small to large buildings	8-26HP (single) 28-96HP (combination)
	Wide range of indoor units	Provides 12 types and more 100 models of VRF indoor units to meet different application scenarios	●
	Wide operation range	Operates stably under extreme conditions	-5~55°C (C) -25~30°C (H)
	Long piping capability	Benefits for the system design, installation flexibility, as well as the less installation cost	●
Easy Installation And Service	Auto addressing (ODU~IDU)	Distributes addresses to indoor units automatically, simplifying the installation	●
	Auto addressing (ODU~ODU)	Distributes addresses to slave outdoor units automatically, further simplifying the installation (available for combined unit)	●
	Automatic refrigerant charging	Makes installation and service easier and more efficient	○
	Automatic refrigerant recycling	Refrigerant can recycle to ODUs or IDUs and normal ODUs, making the maintenance easier and more efficient	●
	Bluetooth module	It can be used for fault information storage, operation parameter enquiry, system parameter setting, quick after-sales PCB replacement, indoor and outdoor units programme upgrade, etc., simplifying installation and maintenance.	○

Functions			Super X Plus
●: equipped as standard; O: customization option; X: without this function			
Easy Installation And Service	Digit display	4 digit 7-segment display can be intuitive for parameter setting, parameter check and error check	●
	High external static pressure	Up to 120Pa ESP allows easy handling in a variety of installation environments	0-20Pa ● 20-60Pa ○
	Arbitrary topology of communication wire	Supports any communication topology, greatly simplifies installation and reduces installation cost	●
	2-core polarity communi-cation wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures	●
	Long communication wiring	Communication wiring up to 1200m makes installation more flexible	●
	Wide combination ratio	Combination ration can be extended to 50%-130% under certain conditions which can meet different project requirements	50-130% ●
	Supports manual and automatic defrosting	Improves maintenance efficiency	●
	Supports manual and automatic oil return	Improves maintenance efficiency	●
	Easy software program upgrade*	The software program can be upgraded via on-site USB and burning, or remotely via the web	●
	Flexible controller connection	Central controller and BMS gateway can connect to ODU at the same time, central controller can connect to ODU or IDU	●
	Refrigerant amount diagnosis	The unit can diagnose excessive or insufficient amounts of refrigerant, prompt maintenance personnel to check the system in time to avoid serious malfunction	●
	Easy system commission-ing and checking*	System commissioning and checking can easily be done on-site or remotely via the web	●
	Intelligent maintenance tool	Intelligent bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency	○

Note:
*1: The web function needs to be realized through the data cloud gateway, and the data cloud gateway needs to be purchased separately.

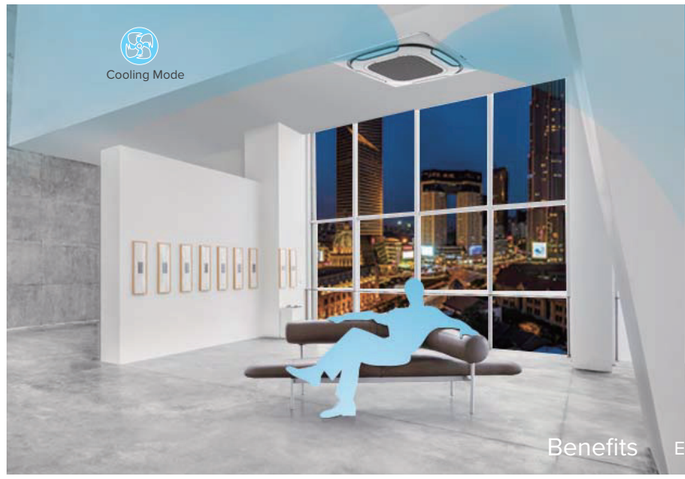


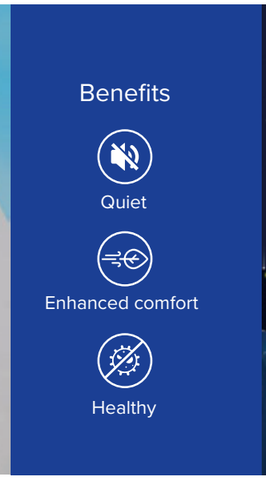
INNOVATIVE TECHNOLOGIES

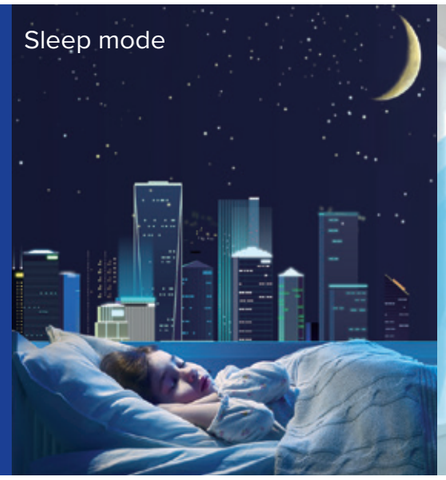
CETA 2.0

CHAE 2.0

DOCTOR 2.0







Carrier ETA (CETA) 2.0

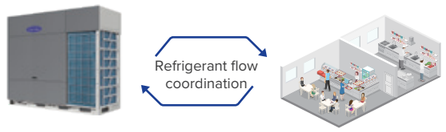
CETA is the abbreviation of Carrier Evaporating Temperature Alteration Further upgraded CETA technology to maximize ENERGY SAVING.

Built-in professional operation and maintenance algorithm, so that the annual operation energy efficiency of each set of systems increased by more than 28%.

Variable Refrigerant Flow

STEP 1: Architectural space feature recognition

The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.

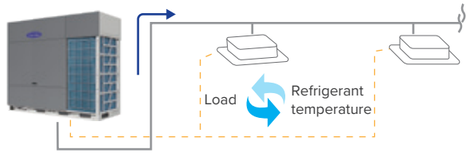


Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.

Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination

The system automatically matches the evaporating temperature (in cooling) or condensing temperature (in heating) to the room load to maximize comfort and energy efficiency.



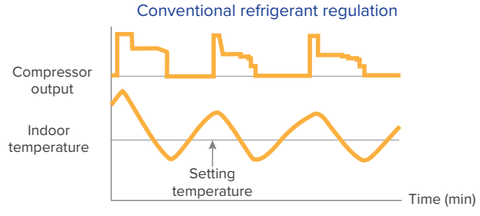
Automatic matching of the corresponding refrigerant temperature to the load.

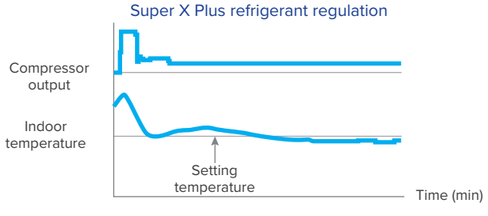
Variable Indoor Airflow

STEP 3: Adaptive indoor airflow and refrigerant flow

Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise temperature control.

Automatic matching of the corresponding indoor airflow to the load and refrigerant temperature.





CHAE 2.0

Further upgraded CHAE technology to maximize COMFORT.

0.5° C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization device and other advanced technologies used in 3rd Gen IDU Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

360° Airflow

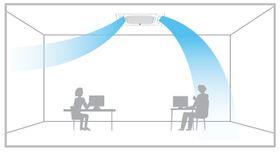
New design, round air flow path ensures uniform air flow and temperature distribution.

7 Fan Speeds

7 indoor fan speed options to meet the needs of different indoor conditions.

Individual Louver Control

The Individual louver control can control the motors separately, making it possible to control all four louvers independently.



Sleep Mode

The smart sleep mode provides a comfortable sleep period and a refreshing wake up time.

*Temperature on left is for reference.

High Efficiency

Doctor 2.0

Further upgraded DOCTOR M technology to maximize EASY SERVICE.

Based on a cloud-based platform of big data and artificial intelligence, the Super X Plus VRF can monitor the operation status of each unit in real time, predict system faults in advance and provide data analysis for system maintenance. Intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

Intelligent Maintenance Tool

With intelligent Bluetooth module or special Bluetooth after-sales kit, the data of the outdoor unit can be directly read and written on your smart phone without the needs of connecting PC or opening cabinet.

*The Bluetooth module is available as a customization option.

Real-time Monitoring of Operating Parameters

The Super X Plus VRF synchronizes and stores all the unit parameters to the cloud through the data cloud gateway, including the running status, locking status, dirty blocking rate, all spot inspection parameters and so on. Users can query real-time and historical parameters on computers, tablets and mobile phones at any time.

Cloud-based Big Data Analytics

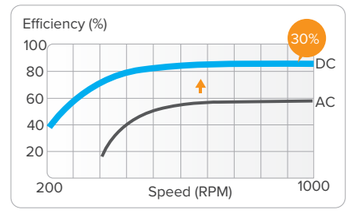
Super X Plus VRF transmits the system operation data to the cloud in real time through the data cloud gateway, and timely reminds the system of abnormal conditions through big data analysis, helping users to proactively avoid the risk of failure that has not yet occurred and minimize hidden problems.

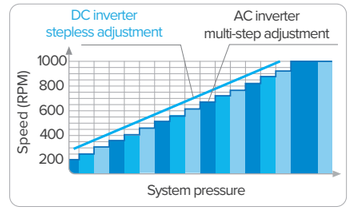
*The data cloud gateway is still under development and needs to be purchased separately.

Full DC Inverter Technology

Full DC Inverter for Outdoor Components

The Super X Plus Series VRF uses full DC inverter compressor and fan motor to achieve high precision stepless speed adjustment according to system operation, and ensures that the system is always in optimum condition, operating more efficiently, more consistently and with less noise.





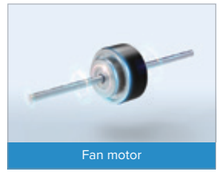
Wider frequency adjustment range

Faster cooling and heating

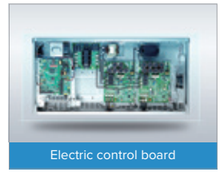
Higher energy efficiency

Full DC Inverter for Indoor Components

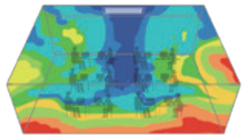
All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.


Fan motor

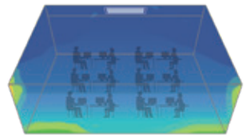

Drain pump

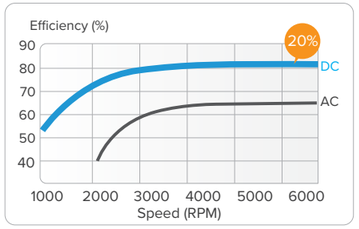

Electric control board

20%
Efficiency improvements


Uneven temperature distribution

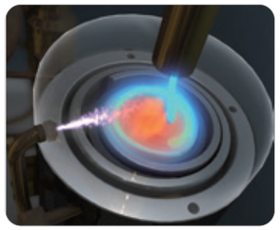
VS

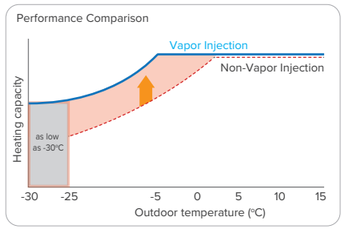

Uniform temperature distribution



Enhanced Vapor Injection (EVI) Compressor

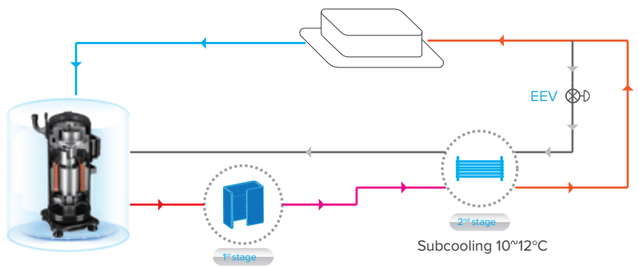
The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves both cooling and heating capacity.





Advanced Subcooling Technology

The Super X Plus Series VRF uses a micro-channel heat exchanger to further cool the refrigerant and the refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound of refrigerant flow.

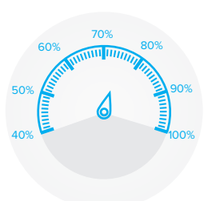


Subcooling 3~5°C

Subcooling 10~12°C

60-step Energy Management

For projects with temporary electricity supply restrictions, the outdoor unit supports 60-step energy management which can be set to output 40-100% capacity in 1% increments. It prevents tripping during electricity supply restriction conditions and remains system continue to operate.

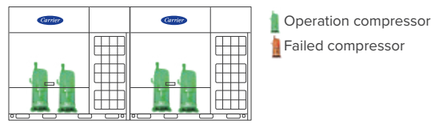


Triple Backup

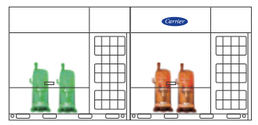
In two fans, two compressors and multiple units, one can run in backup for another.

1 Unit Backup

In a multi-unit system, the different units act as a backup to each other, ensuring that the system can continue to operate if one unit fails.



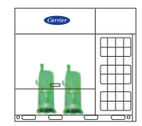
Intelligent load-bearing between units during normal operation



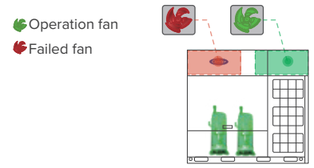
Continue operating in case of failure of one unit

2 Fan Backup

In unit with two fans, the two fans act as a backup to each other, ensuring that the system can continue to operate if one fan fails.



In normal operation, each fan runs on demand



Automatic backup operation of another fan in case of failure of one fan

3 Compressor Backup

In unit with two compressors, the two compressors act as a backup to each other, ensuring that the system can continue to operate if one compressor fails.

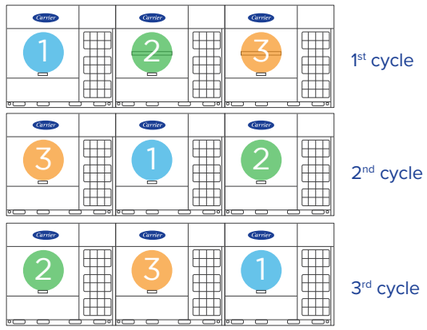
Intelligent load-bearing between compressors during normal operation

Continue operating in case of failure of one compressor

Double Duty Cycling

1 Unit Duty Cycling

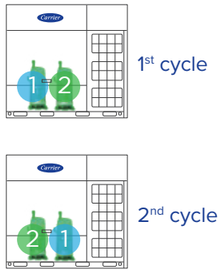
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



Note: The duty cycling sequence shown in the figure is only a schematic reference. The actual duty cycling sequence is not a fixed sequence. Please refer to the technical manual for specific rotation rules.

2 Compressor Duty Cycling

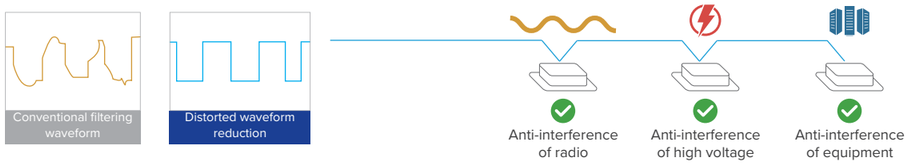
In units with two compressors, duty cycling equalizes the running time of each compressor, significantly extending compressor lifespan.



Compressor start-up sequence

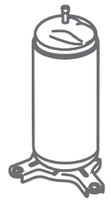
Super Anti-interference Capability

Special waveform restoration technology enhances anti-interference performance for more stable communication.



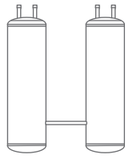
Precise Oil Control

Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

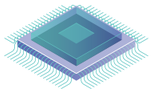


1 Compressor internal oil separation.

2 High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.



3 Oil balance pipes between gas-liquid separator ensure even oil distribution to keep compressors running normally.



4 The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

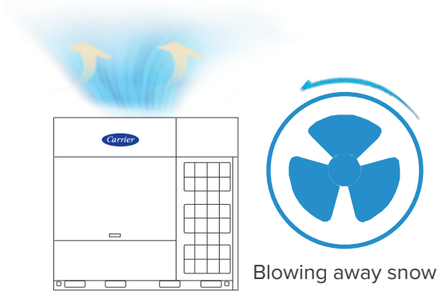
Heavy Anti-corrosion Protection*

Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.

*Heavy anti-corrosion treatment is available as a customization option.

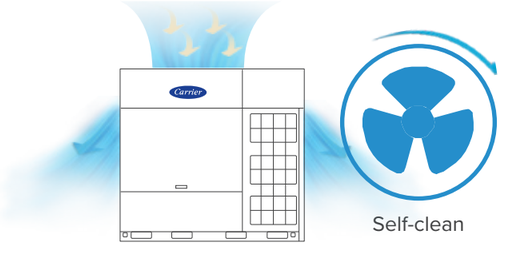
Auto Snow-blowing Function

The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.



Auto Dust-clean Function

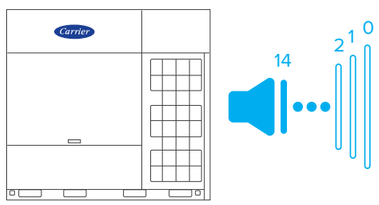
The innovatively designed dust-clean function enables the outdoor unit to prevent the dust by itself.



Enhanced Comfort

Advanced Silent Technology

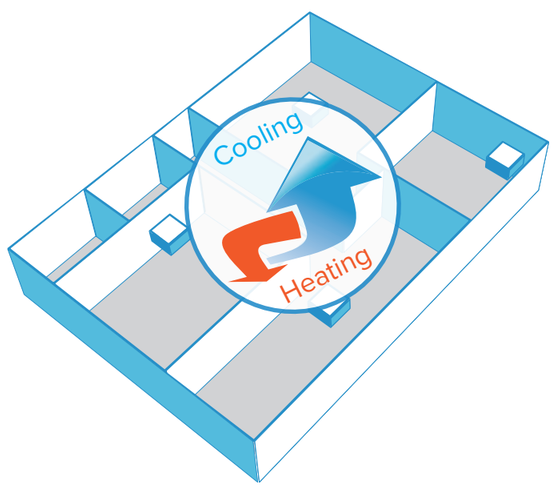
15-step silent mode provide more freedom and convenience to match the customer needs.



15 silent options

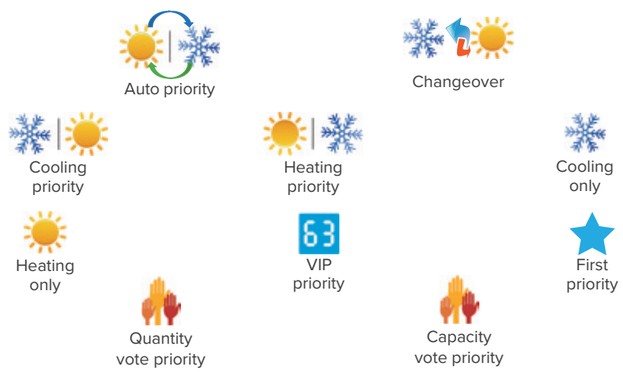
Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.



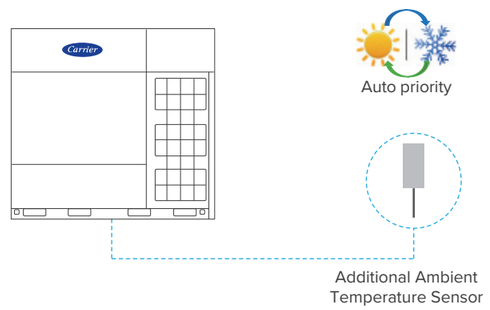
10 Priority Modes

10 priority mode options provide more freedom and convenience to match the customer needs.



Additional Ambient Temperature Sensor*

The Super X Plus Series VRF can be equipped with an additional external ambient temperature sensor to determine whether the system is operating in cooling or heating in auto priority mode. For some installations, the ambient temperature sensor fixed on the unit cannot detect the true ambient temperature, resulting in the system operating in an inappropriate mode and affecting indoor comfort. The external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is running in cooling or heating, ensuring indoor comfort.



*This function is available as a customization option.

Wide Application Range

Wide Capacity Range

The Super X Plus Series VRF are available in combinable series. The combinable series from 8HP to 96HP, perfectly suited for small to large buildings.

Super X Plus - Combinable Series

Single unit

8-16HP

Single unit

18-24HP

Single unit

26HP

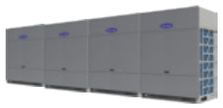
Combined unit

28-52HP

Combined unit

54HP-78HP

Combined unit



80-96HP

Note: Four units combination are possible for the 8-24 HP models, for four units combination please contact Carrier.

Wide Range of Indoor Units

The Super X Plus Series VRF offers 12 types of over 100 models of indoor units to meet different scenarios of applications such as offices, shopping malls, hotels, airports, schools, hospitals, etc.

Wide Operation Range

Thanks to the EVI compressor and refrigerant cooling technology, the Super X Plus Series VRF can operate at temperatures as low as -25°C for heating and up to 55°C for cooling.

Long Piping Capability

The total piping length of the Super X Plus system can be up to 1100m, the level difference between indoor and outdoor units can be up to 110m and the level difference between indoor units can be up to 40m, making the Super X Plus Series VRF perfectly suitable for all buildings.

Total piping length: **1100m**

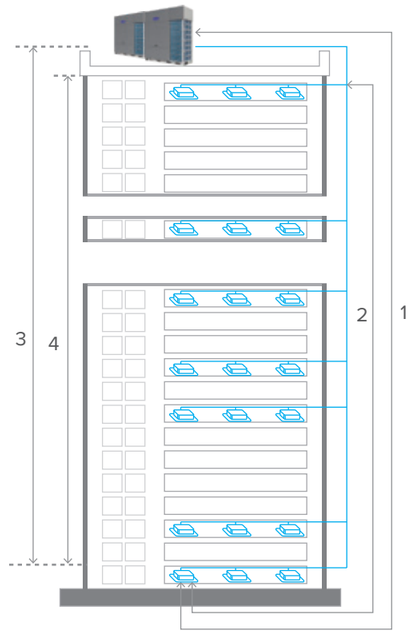
1 Longest piping length - actual (equivalent): **220(260)m**

2 Longest piping length after first branch: **40/120*m**

3 Level difference between IDUs and ODU - ODU above (below): **110(110)m**

4 Level difference between IDUs: **40m**

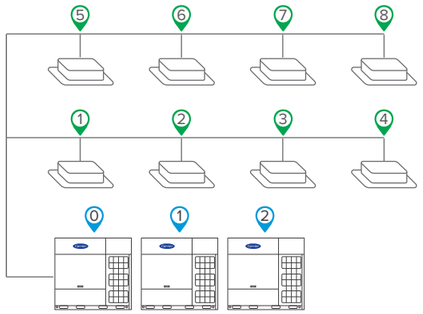
*The longest length after first branch is 40m as standard but can be extended to up to 120m under certain conditions. Please contact your local dealer for further information.



Easy Installation and Service

Auto Addressing

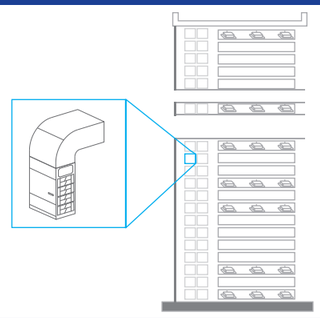
Addresses for all indoor units and combined outdoor units can be assigned automatically by the Super X Plus system, further simplifying installation.



External Static Pressure up to 60Pa*

The static pressure of the outdoor unit can be up to 60Pa which facilitates installation of the unit on each floor of high-rise building or on balconies.

*External static pressure above 20Pa is available as a customization option.



Automatic Refrigerant Charging*

Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

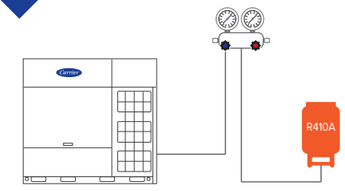
Manual refrigerant charging

1. Calculate additional refrigerant quantity
2. Connect refrigerant tank to the outdoor unit & start filling process
3. Observe the weight scale to check the refrigerant charge
4. Close the shut-off valve manually & finish filling process

*This function is available as a customization option.

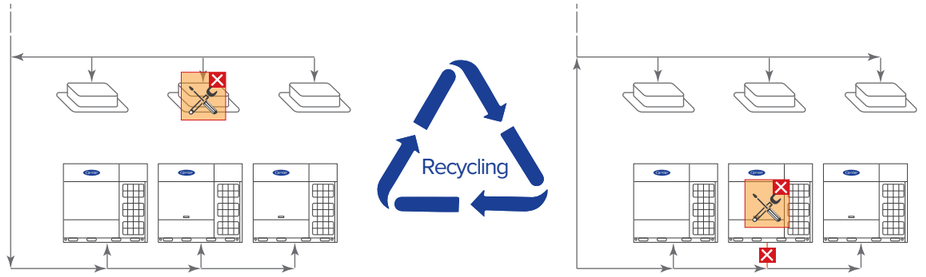
Automatic refrigerant charging

1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish filling process



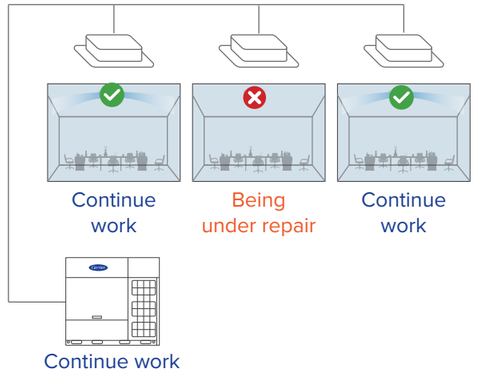
Automatic Refrigerant Recycling

When an indoor unit fails, the refrigerant can be recycled into the outdoor units. When part of the outdoor unit fails, the refrigerant can be recycled into the indoor units and the normal outdoor unit. Two types of refrigerant recycling make the maintenance easier and more efficient.



Maintenance Mode

The maintenance mode allows the shutdown of some indoor units without shutting down the whole VRF system, and it can be activated on site during maintenance period as the remaining indoor units continue to operate.



Easy Software Program Upgrade

In addition to upgrading the program of outdoor and indoor units through USB and burner, the new product can also remotely upgrade all the programs of indoor and outdoor units through data cloud gateway, making system upgrades very convenient and ensuring that the system program is always up to date.

*The data cloud gateway is still under development and needs to be purchased separately.

SPECIFICATIONS
SUPER X PLUS

Specifications

HP			8	10	12	14	16
Model			38VF008H117016	38VF010H117016	38VF012H117016	38VF014H117016	38VF016H117016
Power supply		V/Ph/Hz	220/3/60	220/3/60	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	25.2	28.0	33.5	40.0	45.0
		kBtu/h	86.00	95.50	114.30	136.50	153.50
	Power input	kW	4.89	5.86	7.13	8.81	10.20
	EER		5.15	4.78	4.70	4.54	4.41
Heating[2]	Capacity	kW	27.0	31.5	37.5	45.0	50.0
		kBtu/h	92.10	107.50	128.00	153.50	170.60
	Power input	kW	5.08	6.20	8.01	9.68	10.89
	COP		5.31	5.08	4.68	4.65	4.59
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity				
	Maximum quantity		13	16	19	23	26
Compressor	Type		DC inverter				
	Quantity		1	1	1	1	1
Fan	Type		Propeller	Propeller	Propeller	Propeller	Propeller
	Motor type		DC	DC	DC	DC	DC
	Quantity		1	1	1	1	1
	Static pressure	Pa (in.wg.)	0-20(0-0.08) default; 20-60(0-0.24) customized				
	Airflow rate	m^3/h (CFM)	12600 (7416)	12600 (7416)	13500 (7946)	15600 (9182)	15600 (9182)
	Drive type		Direct	Direct	Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Factory charge	kg (lbs)	7 (15.4)	7 (15.4)	7 (15.4)	8.4 (18.5)	8.4 (18.5)
Pipe connections[3]	Liquid pipe	mm(inch)	Φ12.7 (Φ1/2)	Φ12.7 (Φ1/2)	Φ12.7 (Φ1/2)	Φ15.9 (Φ5/8)	Φ15.9 (Φ5/8)
	Gas pipe	mm(inch)	Φ25.4 (Φ1)	Φ25.4 (Φ1)	Φ25.4 (Φ1)	Φ28.6 (Φ1-1/8)	Φ28.6 (Φ1-1/8)
Sound pressure level[4]		dB(A)	58	58	60	60	61
Net dimensions (W×H×D)		mm	940×1760×825				
		inch	37 1/64×69 19/64×32 31/64				
Packed dimensions (W×H×D)		mm	1010×1945×890				
		inch	39 49/64×76 37/64×35 3/64				
Net weight		kg	195	195	195	213	213
		lbs	430	430	430	470	470
Gross weight		kg	213	213	213	231	231
		lbs	470	470	470	510	510
Ambient temp. operation range	Cooling	°C(°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
	Heating	°C(°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			18	20	22	24	26
Model			38VF018H117016	38VF020H117016	38VF022H117016	38VF024H117016	38VF026H117016
Power supply		V/Ph/Hz	220/3/60	220/3/60	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	50.0	56.0	61.5	67.0	73.0
		kBtu/h	170.60	191.10	209.80	228.60	249.10
	Power input	kW	11.88	13.79	15.30	16.92	19.41
	EER		4.21	4.06	4.02	3.96	3.76
Heating[2]	Capacity	kW	56.0	63.0	69.0	75.0	81.5
		kBtu/h	191.10	215.00	235.40	255.90	278.10
	Power input	kW	12.61	14.38	16.55	18.16	19.59
	COP		4.44	4.38	4.17	4.13	4.16
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity				
	Maximum quantity		29	33	36	39	43
Compressor	Type		DC inverter				
	Quantity		2	2	2	2	2
Fan	Type		Propeller	Propeller	Propeller	Propeller	Propeller
	Motor type		DC	DC	DC	DC	DC
	Quantity		2	2	2	2	2
	Static pressure	Pa (in.wg.)	0-20(0-0.08) default; 20-60(0-0.24) customized				
	Airflow rate	m^3/h (CFM)	22000 (12949)	22000 (12949)	22000 (12949)	21500 (12655)	29000 (17069)
	Drive type		Direct	Direct	Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Factory charge	kg (lbs)	9.3 (20.5)	9.3 (20.5)	9.3 (20.5)	9.3 (20.5)	19 (41.9)
Pipe connections[3]	Liquid pipe	mm(inch)	Φ15.9 (Φ5/8)	Φ15.9 (Φ5/8)	Φ15.9 (Φ5/8)	Φ15.9 (Φ5/8)	Φ22.2 (Φ7/8)
	Gas pipe	mm(inch)	Φ28.6 (Φ1-1/8)	Φ28.6 (Φ1-1/8)	Φ28.6 (Φ1-1/8)	Φ28.6 (Φ1-1/8)	Φ31.8 (Φ1-1/4)
Sound pressure level[4]		dB(A)	62	63	63	64	64
Net dimensions (W×H×D)		mm	1340×1760×825				1880×1760×825
		inch	52 3/4×69 19/64×32 31/64				74 1/64×69 19/64×32 31/64
Packed dimensions (W×H×D)		mm	1410×1945×890				1945×1945×890
		inch	55 33/64×76 37/64×35 3/64				76 37/64×69 19/64×32 31/64
Net weight		kg	300	300	300	300	380
		lbs	662	662	662	662	838
Gross weight		kg	323	323	323	323	405
		lbs	712	712	712	712	893
Ambient temp. operation range	Cooling	°C(°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
	Heating	°C(°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			28	30	32
Model name (Combination unit)			38VF028H117016	38VF030H117016	38VF032H117016
Combination type			14HP+14HP	14HP+16HP	16HP+16HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	80.0	85.0	90.0
		kBtu/h	273.0	290.0	307.0
	Power input	kW	17.6	19.0	20.4
	EER		4.55	4.47	4.41
Heating[2]	Capacity	kW	90.0	95.0	100.0
		kBtu/h	307.0	324.1	341.2
	Power input	kW	19.4	20.6	21.8
	COP		4.64	4.61	4.59
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		46	50	53
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		2	2	2
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		2	2	2
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m^3/h	31200	31200	31200
		CFM	18364	18364	18364
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2	8.4×2	8.4×2
		lbs	18.5×2	18.5×2	18.5×2
Pipe connections[3]	Liquid pipe	mm(inch)	Φ19.1 (3/4)	Φ19.1 (3/4)	Φ19.1 (3/4)
	Gas pipe	mm(inch)	Φ31.8 (1 1/4)	Φ31.8 (1 1/4)	Φ31.8 (1 1/4)
Sound pressure level[4]		dB(A)	63	64	64
Net dimensions (W×H×D)		mm	(940×1760×825)×2	(940×1760×825)×2	(940×1760×825)×2
		inch	(37 1/64×69 19/64×32 31/64)×2	(37 1/64×69 19/64×32 31/64)×2	(37 1/64×69 19/64×32 31/64)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2	(1010×1945×890)×2	(1010×1945×890)×2
		inch	(39 49/64×76 37/64×35 3/64)×2	(39 49/64×76 37/64×35 3/64)×2	(39 49/64×76 37/64×35 3/64)×2
Net weight		kg	213×2	213×2	213×2
		lbs	470×2	470×2	470×2
Gross weight		kg	231×2	231×2	231×2
		lbs	510×2	510×2	510×2
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			34	36	38
Model name (Combination unit)			38VF034H117016	38VF036H117016	38VF038H117016
Combination type			14HP+20HP	16HP+20HP	14HP+24HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	96.0	101.0	107.0
		kBtu/h	327.6	344.6	365.1
	Power input	kW	22.6	24.0	25.7
	EER		4.25	4.21	4.16
Heating[2]	Capacity	kW	108.0	113.0	120.0
		kBtu/h	368.5	385.6	409.4
	Power input	kW	24.1	25.3	27.8
	COP		4.48	4.47	4.32
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		56	59	62
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		3	3	3
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		3	3	3
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m^3/h	37600	37600	37100
		CFM	22131	22131	21837
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4+9.3	8.4+9.3	8.4+9.3
		lbs	18.5+20.5	18.5+20.5	18.5+20.5
Pipe connections[3]	Liquid pipe	mm(inch)	Φ19.1 (3/4)	Φ19.1 (3/4)	Φ19.1 (3/4)
	Gas pipe	mm(inch)	Φ31.8 (1 1/4)	Φ38.1 (1 1/2)	Φ38.1 (1 1/2)
Sound pressure level[4]		dB(A)	65	65	65
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)
		inch	(37 1/64×69 19/64×32 31/64)+(52 3/4×69 19/64×32 31/64)	(37 1/64×69 19/64×32 31/64)+(52 3/4×69 19/64×32 31/64)	(37 1/64×69 19/64×32 31/64)+(52 3/4×69 19/64×32 31/64)
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)
		inch	(39 49/64×76 37/64×35 3/64)+(55 33/64×76 37/64×35 3/64)	(39 49/64×76 37/64×35 3/64)+(55 33/64×76 37/64×35 3/64)	(39 49/64×76 37/64×35 3/64)+(55 33/64×76 37/64×35 3/64)
Net weight		kg	213+300	213+300	213+300
		lbs	470+662	470+662	470+662
Gross weight		kg	231+323	231+323	231+323
		lbs	510+712	510+712	510+712
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			40	42	44
Model name (Combination unit)			38VF040H117016	38VF042H117016	38VF044H117016
Combination type			16HP+24HP	18HP+24HP	20HP+24HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	112.0	117.0	123.0
		kBtu/h	382.1	399.2	419.7
	Power input	kW	27.1	28.8	30.7
	EER		4.13	4.06	4.01
Heating[2]	Capacity	kW	125.0	131.0	138.0
		kBtu/h	426.5	447.0	470.9
	Power input	kW	29.1	30.8	32.5
	COP		4.30	4.25	4.25
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		3	4	4
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		3	4	4
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m³/h	37100	43500	43500
		CFM	21837	25604	25604
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4+9.3	9.3×2	9.3×2
		lbs	18.5+20.5	20.5×2	20.5×2
Pipe connections[3]	Liquid pipe	mm(inch)	Φ19.1 (3/4)	Φ19.1 (3/4)	Φ19.1 (3/4)
	Gas pipe	mm(inch)	Φ38.1 (1 1/2)	Φ38.1 (1 1/2)	Φ38.1 (1 1/2)
Sound pressure level[4]		dB(A)	65	65	65
Net dimensions (W×H×D)		mm	(940×1760×825)+ (1340×1760×825)	(1340×1760×825)×2	(1340×1760×825)×2
		inch	(37 1/64×69 19/64×32 31/64)+ (52 3/4×69 19/64×32 31/64)	(52 3/4×69 19/64×32 31/64)×2	(52 3/4×69 19/64×32 31/64)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+ (1410×1945×890)	(1410×1945×890)×2	(1410×1945×890)×2
		inch	(39 49/64×76 37/64×35 3/64)+ (55 33/64×76 37/64×35 3/64)	(55 33/64×76 37/64×35 3/64)×2	(55 33/64×76 37/64×35 3/64)×2
Net weight		kg	213+300	300×2	300×2
		lbs	470+662	662×2	662×2
Gross weight		kg	231+323	323×2	323×2
		lbs	510+712	712×2	712×2
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			46	48	50
Model name (Combination unit)			38VF046H117016	38VF048H117016	38VF050H117016
Combination type			22HP+24HP	24HP+24HP	24HP+26HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	128.5	134.0	140.0
		kBtu/h	438.4	457.2	477.7
	Power input	kW	32.2	33.8	36.3
	EER		3.99	3.96	3.86
Heating[2]	Capacity	kW	144.0	150.0	156.5
		kBtu/h	491.3	511.8	534.0
	Power input	kW	34.7	36.3	37.8
	COP		4.15	4.13	4.14
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		4	4	4
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		4	4	4
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m³/h	43500	43000	50500
		CFM	25604	25310	29724
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	9.3×2	9.3×2	9.3+19
		lbs	20.5×2	20.5×2	20.5+41.9
Pipe connections[3]	Liquid pipe	mm(inch)	Φ19.1 (3/4)	Φ19.1 (3/4)	Φ19.1 (3/4)
	Gas pipe	mm(inch)	Φ38.1 (1 1/2)	Φ38.1 (1 1/2)	Φ38.1 (1 1/2)
Sound pressure level[4]		dB(A)	65	66	66
Net dimensions (W×H×D)		mm	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)+(1880×1760×825)
		inch	(52 3/4×69 19/64×32 31/64)×2	(52 3/4×69 19/64×32 31/64)×2	(52 3/4×69 19/64×32 31/64)+ (74 1/64×69 19/64×32 31/64)
Packed dimensions (W×H×D)		mm	(1410×1945×890)×2	(1410×1945×890)×2	(1410×1945×890)+ (1945×1945×890)
		inch	(55 33/64×76 37/64×35 3/64)×2	(55 33/64×76 37/64×35 3/64)×2	(55 33/64×76 37/64×35 3/64)+ (76 37/64×69 19/64×32 31/64)
Net weight		kg	300×2	300×2	300+380
		lbs	662×2	662×2	662+838
Gross weight		kg	323×2	323×2	323+405
		lbs	712×2	712×2	712+893
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			52	54	56
Model name (Combination unit)			38VF052H117016	38VF054H117016	38VF056H117016
Combination type			26HP+26HP	14HP+14HP+26HP	14HP+16HP+26HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	146.0	153.0	158.0
		kBtu/h	498.2	522.1	539.1
	Power input	kW	38.8	37.0	38.4
	EER		3.76	4.14	4.11
Heating[2]	Capacity	kW	163.0	171.5	176.5
		kBtu/h	556.2	585.1	602.2
	Power input	kW	39.2	38.9	40.2
	COP		4.16	4.41	4.39
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		4	4	4
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		4	4	4
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m³/h	58000	60200	60200
		CFM	34138	35433	35433
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	19×2	8.4×2+19	8.4×2+19
		lbs	41.9×2	18.5×2+41.9	18.5×2+41.9
Pipe connections[3]	Liquid pipe	mm(inch)	Φ19.1 (3/4)	Φ19.1 (3/4)	Φ19.1 (3/4)
	Gas pipe	mm(inch)	Φ38.1 (1 1/2)	Φ38.1 (1 1/2)	Φ41.3 (1 5/8)
Sound pressure level[4]		dB(A)	66	66	66
Net dimensions (W×H×D)		mm	(1880×1760×825)×2	(940×1760×825)×2+ (1880×1760×825)	(940×1760×825)×2+ (1880×1760×825)
		inch	(74 1/64×69 19/64×32 31/64)×2	(37 1/64×69 19/64×32 31/64)×2+ (74 1/64×69 19/64×32 31/64)	(37 1/64×69 19/64×32 31/64)×2+ (74 1/64×69 19/64×32 31/64)
Packed dimensions (W×H×D)		mm	(1945×1945×890)×2	(1010×1945×890)×2+ (1945×1945×890)	(1010×1945×890)×2+ (1945×1945×890)
		inch	(76 37/64×69 19/64×32 31/64)×2	(39 49/64×76 37/64×35 3/64)×2+ (76 37/64×69 19/64×32 31/64)	(39 49/64×76 37/64×35 3/64)×2+(76 37/64×69 19/64×32 31/64)
Net weight		kg	380×2	213×2+380	213×2+380
		lbs	838×2	470×2+838	470×2+838
Gross weight		kg	405×2	231×2+405	231×2+405
		lbs	893×2	510×2+893	510×2+893
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			58	60	62
Model name (Combination unit)			38VF058H117016	38VF060H117016	38VF062H117016
Combination type			16HP+16HP+26HP	14HP+20HP+26HP	16HP+20HP+26HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	163.0	169.0	174.0
		kBtu/h	556.1	576.7	593.7
	Power input	kW	39.8	42.0	43.4
	EER		4.10	4.02	4.01
Heating[2]	Capacity	kW	181.5	189.5	194.5
		kBtu/h	619.3	646.6	663.7
	Power input	kW	41.4	43.7	44.9
	COP		4.38	4.34	4.33
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		4	5	5
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		4	5	5
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m³/h	60200	66600	66600
		CFM	35433	39200	39200
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2+19	8.4+9.3+19	8.4+9.3+19
		lbs	18.5×2+41.9	18.5+20.5+41.9	18.5+20.5+41.9
Pipe connections[3]	Liquid pipe	mm(inch)	Φ19.1 (3/4)	Φ19.1 (3/4)	Φ19.1 (3/4)
	Gas pipe	mm(inch)	Φ41.3 (1 5/8)	Φ41.3 (1 5/8)	Φ41.3 (1 5/8)
Sound pressure level[4]		dB(A)	66	66	66
Net dimensions (W×H×D)		mm	(940×1760×825)×2+ (1880×1760×825)	(940×1760×825)+(1340×1760×825)+ (1880×1760×825)	(940×1760×825)+(1340×1760×825)+ (1880×1760×825)
		inch	(37 1/64×69 19/64×32 31/64)×2+ (74 1/64×69 19/64×32 31/64)	(37 1/64×69 19/64×32 31/64)+ (52 3/4×69 19/64×32 31/64)+ (74 1/64×69 19/64×32 31/64)	(37 1/64×69 19/64×32 31/64)+ (52 3/4×69 19/64×32 31/64)+ (74 1/64×69 19/64×32 31/64)
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2+ (1945×1945×890)	(1010×1945×890)+(1410×1945×890)+ (1945×1945×890)	(1010×1945×890)+(1410×1945×890)+ (1945×1945×890)
		inch	(39 49/64×76 37/64×35 3/64)×2+ (76 37/64×69 19/64×32 31/64)	(39 49/64×76 37/64×35 3/64)+ (55 33/64×76 37/64×35 3/64)+ (76 37/64×69 19/64×32 31/64)	(39 49/64×76 37/64×35 3/64)+ (55 33/64×76 37/64×35 3/64)+ (76 37/64×69 19/64×32 31/64)
Net weight		kg	213×2+380	213+300+380	213+300+380
		lbs	470×2+838	470+662+838	470+662+838
Gross weight		kg	231×2+405	231+323+405	231+323+405
		lbs	510×2+893	510+712+893	510+712+893
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			64	66	68
Model name (Combination unit)			38VF064H117016	38VF066H117016	38VF068H117016
Combination type			14HP+24HP+26HP	16HP+24HP+26HP	18HP+24HP+26HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	180.0	185.0	190.0
		kBtu/h	614.2	631.2	648.3
	Power input	kW	45.1	46.5	48.2
	EER		3.99	3.98	3.94
Heating[2]	Capacity	kW	201.5	206.5	212.5
		kBtu/h	687.5	704.6	725.1
	Power input	kW	47.4	48.6	50.4
	COP		4.25	4.25	4.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		5	5	6
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		5	5	6
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m³/h	66100	66100	72500
		CFM	38906	38906	42673
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4+9.3+19	8.4+9.3+19	9.3×2+19
		lbs	18.5+20.5+41.9	18.5+20.5+41.9	20.5×2+41.9
Pipe connections[3]	Liquid pipe	mm(inch)	Φ19.1 (3/4)	Φ19.1 (3/4)	Φ22.2 (7/8)
	Gas pipe	mm(inch)	Φ41.3 (1 5/8)	Φ41.3 (1 5/8)	Φ44.5 (1 3/4)
Sound pressure level[4]		dB(A)	66	66	67
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)+(1880×1760×825)	(940×1760×825)+(1340×1760×825)+(1880×1760×825)	(1340×1760×825)×2+(1880×1760×825)
		inch	(37 1/64×69 19/64×32 31/64)+(52 3/4×69 19/64×32 31/64)+(74 1/64×69 19/64×32 31/64)	(37 1/64×69 19/64×32 31/64)+(52 3/4×69 19/64×32 31/64)+(74 1/64×69 19/64×32 31/64)	(52 3/4×69 19/64×32 31/64)×2+(74 1/64×69 19/64×32 31/64)
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)+(1945×1945×890)	(1010×1945×890)+(1410×1945×890)+(1945×1945×890)	(1410×1945×890)×2+(1945×1945×890)
		inch	(39 49/64×76 37/64×35 3/64)+(55 33/64×76 37/64×35 3/64)+(76 37/64×69 19/64×32 31/64)	(39 49/64×76 37/64×35 3/64)+(55 33/64×76 37/64×35 3/64)+(76 37/64×69 19/64×32 31/64)	(55 33/64×76 37/64×35 3/64)×2+(76 37/64×69 19/64×32 31/64)
Net weight		kg	213+300+380	213+300+380	300×2+380
		lbs	470+662+838	470+662+838	662×2+838
Gross weight		kg	231+323+405	231+323+405	323×2+405
		lbs	510+712+893	510+712+893	712×2+893
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			70	72	74
Model name (Combination unit)			38VF070H117016	38VF072H117016	38VF074H117016
Combination type			20HP+24HP+26HP	22HP+24HP+26HP	24HP+24HP+26HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	196.0	201.5	207.0
		kBtu/h	668.8	687.5	706.3
	Power input	kW	50.1	51.6	53.3
	EER		3.91	3.91	3.88
Heating[2]	Capacity	kW	219.5	225.5	231.5
		kBtu/h	749.0	769.4	789.9
	Power input	kW	52.1	54.3	55.9
	COP		4.21	4.15	4.14
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		6	6	6
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		6	6	6
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m³/h	72500	72500	72000
		CFM	42673	42673	42379
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	9.3×2+19	9.3×2+19	9.3×2+19
		lbs	20.5×2+41.9	20.5×2+41.9	20.5×2+41.9
Pipe connections[3]	Liquid pipe	mm(inch)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ22.2 (7/8)
	Gas pipe	mm(inch)	Φ44.5 (1 3/4)	Φ44.5 (1 3/4)	Φ44.5 (1 3/4)
Sound pressure level[4]		dB(A)	67	67	67
Net dimensions (W×H×D)		mm	(1340×1760×825)×2+(1880×1760×825)	(1340×1760×825)×2+(1880×1760×825)	(1340×1760×825)×2+(1880×1760×825)
		inch	(52 3/4×69 19/64×32 31/64)×2+(74 1/64×69 19/64×32 31/64)	(52 3/4×69 19/64×32 31/64)×2+(74 1/64×69 19/64×32 31/64)	(52 3/4×69 19/64×32 31/64)×2+(74 1/64×69 19/64×32 31/64)
Packed dimensions (W×H×D)		mm	(1410×1945×890)×2+(1945×1945×890)	(1410×1945×890)×2+(1945×1945×890)	(1410×1945×890)×2+(1945×1945×890)
		inch	(55 33/64×76 37/64×35 3/64)×2+(76 37/64×69 19/64×32 31/64)	(55 33/64×76 37/64×35 3/64)×2+(76 37/64×69 19/64×32 31/64)	(55 33/64×76 37/64×35 3/64)×2+(76 37/64×69 19/64×32 31/64)
Net weight		kg	300×2+380	300×2+380	300×2+380
		lbs	662×2+838	662×2+838	662×2+838
Gross weight		kg	323×2+405	323×2+405	323×2+405
		lbs	712×2+893	712×2+893	712×2+893
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			76	78	80
Model name (Combination unit)			38VF076H117016	38VF078H117016	38VF080H117016
Combination type			24HP+26HP+26HP	26HP+26HP+26HP	14HP+18HP+24HP+24HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	213.0	219.0	224.0
		kBtu/h	726.8	747.3	764.3
	Power input	kW	55.7	58.2	54.5
	EER		3.82	3.76	4.11
Heating[2]	Capacity	kW	238.0	244.5	251.0
		kBtu/h	812.1	834.3	856.4
	Power input	kW	57.3	58.8	58.6
	COP		4.15	4.16	4.28
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		6	6	7
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		6	6	7
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m³/h	79500	87000	80600
		CFM	46793	51207	47441
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	9.3+19×2	19×3	8.4+9.3×3
		lbs	20.5+41.9×2	41.9×3	18.5+20.5×3
Pipe connections[3]	Liquid pipe	mm(inch)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ22.2 (7/8)
	Gas pipe	mm(inch)	Φ44.5 (1 3/4)	Φ44.5 (1 3/4)	Φ44.5 (1 3/4)
Sound pressure level[4]		dB(A)	68	68	68
Net dimensions (W×H×D)		mm	(1340×1760×825)+ (1880×1760×825)×2	(1880×1760×825)×3	(940×1760×825)+ (1340×1760×825)×3
		inch	(52 3/4×69 19/64×32 31/64)+ (74 1/64×69 19/64×32 31/64)×2	(74 1/64×69 19/64×32 31/64)×3	(37 1/64×69 19/64×32 31/64)+ (52 3/4×69 19/64×32 31/64)×3
Packed dimensions (W×H×D)		mm	(1410×1945×890)+ (1945×1945×890)×2	(1945×1945×890)×3	(1010×1945×890)+ (1410×1945×890)×3
		inch	(55 33/64×76 37/64×35 3/64)+ (76 37/64×69 19/64×32 31/64)×2	(76 37/64×69 19/64×32 31/64)×3	(39 49/64×76 37/64×35 3/64)+ (55 33/64×76 37/64×35 3/64)×3
Net weight		kg	300+380×2	380×3	213+300×3
		lbs	662+838×2	838×3	470+662×3
Gross weight		kg	323+405×2	405×3	231+323×3
		lbs	712+893×2	893×3	510+712×3
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			82	84	86
Model name (Combination unit)			38VF082H117016	38VF084H117016	38VF086H117016
Combination type			16HP+18HP+24HP+24HP	18HP+18HP+24HP+24HP	14HP+24HP+24HP+24HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	229.0	234.0	241.0
		kBtu/h	781.3	798.4	822.3
	Power input	kW	55.9	57.6	59.6
	EER		4.10	4.06	4.04
Heating[2]	Capacity	kW	256.0	262.0	270.0
		kBtu/h	873.5	894.0	921.2
	Power input	kW	59.8	61.5	64.2
	COP		4.28	4.26	4.21
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		7	8	7
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		7	8	7
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m³/h	80600	87000	80100
		CFM	47441	51208	47147
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4+9.3×3	9.3×4	8.4+9.3×3
		lbs	18.5+20.5×3	20.5×4	18.5+20.5×3
Pipe connections[3]	Liquid pipe	mm(inch)	Φ22.2 (7/8)	Φ25.4 (Φ1)	Φ25.4 (Φ1)
	Gas pipe	mm(inch)	Φ44.5 (1 3/4)	Φ50.8 (Φ2)	Φ50.8 (Φ2)
Sound pressure level[4]		dB(A)	68	69	69
Net dimensions (W×H×D)		mm	(940×1760×825)+ (1340×1760×825)×3	(1340×1760×825)×4	(940×1760×825)+ (1340×1760×825)×3
		inch	(37 1/64×69 19/64×32 31/64)+ (52 3/4×69 19/64×32 31/64)×3	(52 3/4×69 19/64×32 31/64)×4	(37 1/64×69 19/64×32 31/64)+ (52 3/4×69 19/64×32 31/64)×3
Packed dimensions (W×H×D)		mm	(1010×1945×890)+ (1410×1945×890)×3	(1410×1945×890)×4	(1010×1945×890)+ (1410×1945×890)×3
		inch	(39 49/64×76 37/64×35 3/64)+ (55 33/64×76 37/64×35 3/64)×3	(55 33/64×76 37/64×35 3/64)×4	(39 49/64×76 37/64×35 3/64)+ (55 33/64×76 37/64×35 3/64)×3
Net weight		kg	213+300×3	300×4	213+300×3
		lbs	470+662×3	662×4	470+662×3
Gross weight		kg	231+323×3	323×4	231+323×3
		lbs	510+712×3	712×4	510+712×3
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			88	90	92
Model name (Combination unit)			38VF088H117016	38VF090H117016	38VF092H117016
Combination type			16HP+24HP+24HP+24HP	18HP+24HP+24HP+24HP	20HP+24HP+24HP+24HP
Power supply		V/~/Hz	220/3/60	220/3/60	220/3/60
Cooling[1]	Capacity	kW	246.0	251.0	257.0
		kBtu/h	839.3	856.4	876.9
	Power input	kW	61.0	62.6	64.6
	EER		4.03	4.01	3.98
Heating[2]	Capacity	kW	275.0	281.0	288.0
		kBtu/h	938.3	958.8	982.7
	Power input	kW	65.4	67.1	68.9
	COP		4.20	4.19	4.18
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		7	8	8
	Start-up method		Soft start	Soft start	Soft start
Fan	Type		Propeller	Propeller	Propeller
	Motor type		DC	DC	DC
	Quantity		7	8	8
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized		
	Airflow rate	m^3/h	80100	86500	86500
		CFM	47147	50914	50914
	Drive type		Direct	Direct	Direct
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4+9.3×3	9.3×4	9.3×4
		lbs	18.5+20.5×3	20.5×4	20.5×4
Pipe connections[3]	Liquid pipe	mm(inch)	Φ25.4 (Φ1)	Φ25.4 (Φ1)	Φ25.4 (Φ1)
	Gas pipe	mm(inch)	Φ50.8 (Φ2)	Φ50.8 (Φ2)	Φ50.8 (Φ2)
Sound pressure level[4]		dB(A)	69	69	70
Net dimensions (W×H×D)		mm	(940×1760×825)+ (1340×1760×825)×3	(1340×1760×825)×4	(1340×1760×825)×4
		inch	(37 1/64×69 19/64×32 31/64)+ (52 3/4×69 19/64×32 31/64)×3	(52 3/4×69 19/64×32 31/64)×4	(52 3/4×69 19/64×32 31/64)×4
Packed dimensions (W×H×D)		mm	(1010×1945×890)+ (1410×1945×890)×3	(1410×1945×890)×4	(1410×1945×890)×4
		inch	(39 49/64×76 37/64×35 3/64)+ (55 33/64×76 37/64×35 3/64)×3	(55 33/64×76 37/64×35 3/64)×4	(55 33/64×76 37/64×35 3/64)×4
Net weight		kg	213+300×3	300×4	300×4
		lbs	470+662×3	662×4	662×4
Gross weight		kg	231+323×3	323×4	323×4
		lbs	510+712×3	712×4	712×4
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

HP			94	96
Model name (Combination unit)			38VF094H117016	38VF096H117016
Combination type			22HP+24HP+24HP+24HP	24HP+24HP+24HP+24HP
Power supply		V/~/Hz	220/3/60	220/3/60
Cooling[1]	Capacity	kW	262.5	268.0
		kBtu/h	895.6	914.4
	Power input	kW	66.1	67.7
	EER		3.97	3.96
Heating[2]	Capacity	kW	294.0	300.0
		kBtu/h	1003.1	1023.6
	Power input	kW	71.0	72.6
	COP		4.14	4.13
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	
	Maximum quantity		64	
Compressor	Type		DC inverter	DC inverter
	Quantity		8	8
	Start-up method		Soft start	Soft start
Fan	Type		Propeller	Propeller
	Motor type		DC	DC
	Quantity		8	8
	Static pressure	Pa	0-20(0-0.08) default; 20-60(0-0.24) customized	
	Airflow rate	m^3/h	86500	86000
		CFM	50914	50620
	Drive type		Direct	Direct
Refrigerant	Type		R410A	R410A
	Factory charge	kg	9.3×4	9.3×4
		lbs	20.5×4	20.5×4
Pipe connections[3]	Liquid pipe	mm(inch)	Φ25.4 (Φ1)	Φ25.4 (Φ1)
	Gas pipe	mm(inch)	Φ50.8 (Φ2)	Φ50.8 (Φ2)
Sound pressure level[4]		dB(A)	70	70
Net dimensions (W×H×D)		mm	(1340×1760×825)×4	(1340×1760×825)×4
		inch	(52 3/4×69 19/64×32 31/64)×4	(52 3/4×69 19/64×32 31/64)×4
Packed dimensions (W×H×D)		mm	(1410×1945×890)×4	(1410×1945×890)×4
		inch	(55 33/64×76 37/64×35 3/64)×4	(55 33/64×76 37/64×35 3/64)×4
Net weight		kg	300×4	300×4
		lbs	662×4	662×4
Gross weight		kg	323×4	323×4
		lbs	712×4	712×4
Ambient temp.	Cooling	°C (°F)	-5~55 (23~131)	-5~55 (23~131)
operation range	Heating	°C (°F)	-25~30 (-13~86)	-25~30 (-13~86)

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

OUTDOOR UNITS

Super YC (Combinable series)

The Super YC Series VRF uses algorithms and self-learning technology to monitor the operation of the equipment, so that the equipment can run stably and be maintained in time to ensure that the equipment always runs in optimal condition throughout its life cycle.

Outdoor Unit Lineup

Super YC (Combinable series)

Single Unit	8-20HP	22-30HP
Combined Unit	32-60HP	
	62-90HP	

Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option			Super YC
Innovative Technologies	Smartlink	original communication bus chip greatly simplifies installation and saves installation costs	●
	Sealed Box	Fully sealed electric control box realizes resisting all protects against intrusion and damage to the electric control box	●
	Comprehensive Sensor	17 sensors monitor the state of each part of the refrigerant pipeline throughout the whole process	●
	CETA 2.0	Triple variable control maximizes comfort and energy efficiency	●
	CHAE 2.0	Provides comfort and healthy air supply	●
	Doctor 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	●
High Efficiency	Full DC inverter technology	All electrical components of outdoor and indoor units use DC power supply, improving electrical efficiency and saving energy	●
	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation and improves cooling capacity	●
	Multi-channel refrigerant subcooling	The refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing noise	●
	Low standby power consumption	The standby power consumption is as low as 3.5W	●
	60-step energy management	The system can be set from 40% to 100% capacity output in 1% increments	●
High Reliability	Duty cycling (unit)	Equalizes the running time of the outdoor units in a multiple-unit system, significantly extending unit lifespan (available for combined units)	●
	Duty cycling (compressor)	Equalizes the running time of the compressor in each unit, significantly extending compressor lifespan (available for units with two compressors)	●
	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined units)	●
	Backup operation (compressor)	If one compressor fails, the other compressor provides backup so that the system can continue operating (available for units with two compressors)	●
	Backup operation (fan motor)	If one fan motor fails, the other fan motor provides backup so that the system can continue operating (available for unit units two fan motors)	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provides backup so that the system can continue operating	●

Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option			Super YC
High Reliability	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating compressor oil shortages	●
	Anti-corrosion protection	Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard	●
	UL anti-corrosion certificate	It has been certified by UL that our VRF outdoor unit can withstand 27 years of simulated severe corrosion under a salt contaminated traffic environment	○
	Multi-channel refrigerant cooling PCB	10 times higher than ordinary refrigerant pipe cooling efficiency	●
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing stable unit operations in a dusty environment	●
	Alarm output	In the event of system malfunction, remotely output error information and remind maintenance personnel to conduct maintenance	●
	Fire alarm input	In the event of fire, receive fire information in time and stop the system immediately to avoid serious problems	●
Enhanced Comfort	Silent mode	15-step silent mode selections provide more freedom and convenience to match the needs of customers	●
	0.1 °C control precision	Control precision of the sensor can reach 0.1°C, ensuring less fluctuations in room temperature	●
Wide Application Range	Wide capacity range	Meets all customer requirements from small to large buildings	8-30HP (single) 32-90HP (combined)
	Wide range of indoor units	Provides 12 types and more than 100 models of VRF indoor units to meet the needs of different application scenarios	●
	Wide operation range	Operates stably under extreme conditions	-15~55°C
	Long piping capability	Benefits for the system design, installation flexibility, as well as the less installation cost	●
	Auto addressing (ODU~IDU)	Distributes addresses to indoor units automatically, simplifying the installation	●

Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option			Super YC
Easy Installation And Service	Auto addressing (ODU~ODU)	Distributes addresses to slave outdoor units automatically, further simplifying the installation (available for combined units)	●
	Automatic refrigerant charging	Makes installation and service easier and more efficient	○
	Automatic refrigerant recycling	Refrigerant can be recycled to ODUs or IDUs and normal ODUs, making the maintenance easier and more efficient	●
	Bluetooth module	It can be used for fault information storage, operation parameter enquiry, system parameter setting, quick after-sales PCB replacement, programme upgrade for indoor and outdoor units, etc., simplifying installation and maintenance.	○
	Digit display	4 digit 7-segment display can be intuitive for parameter setting, parameter checks and error checks	●
	High external static pressure	Up to 120Pa ESP allows easy handling in a variety of installation environments	0-20Pa ● 20-120Pa ○
	Arbitrary topology of communication wire	Supports any communication topology, greatly simplifies installation and reduces installation cost	●
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures	●
	Long communication wiring	Communication wiring up to 2000m makes installation more flexible	●
	Wide combination ratio	Combination ration can be extended to 50%-200% under certain conditions which can meet different project requirements	50-130% ● 50-200% (for single unit system) ○
	Supports manual and automatic oil return	Improves maintenance efficiency	●
	Easy software program upgrade*	The software program can be upgraded via on-site USB and burning, or remotely via the web	●
	Flexible controller connection	Central controller and BMS gateway can connect to the ODU at the same time, and the central controller can connect to the ODU or IDU	●
	Refrigerant amount diagnosis	The unit can diagnose excessive or insufficient amounts of refrigerant, and prompt maintenance personnel to check the system in time to avoid serious malfunction	●
	Easy system commissioning and checking*	System commissioning and checking can easily be completed on-site or remotely via the web	●
	Intelligent maintenance tool	Intelligent bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency	○

*Note: The web function needs to be realized through the data cloud gateway, and the data cloud gateway needs to be purchased separately.

INNOVATIVE TECHNOLOGIES

SmartLink New & Unique

SealedBox New & Unique

Comprehensive Sensor New & Unique

CETA 2.0

CHAE 2.0

DOCTOR 2.0

SmartLink

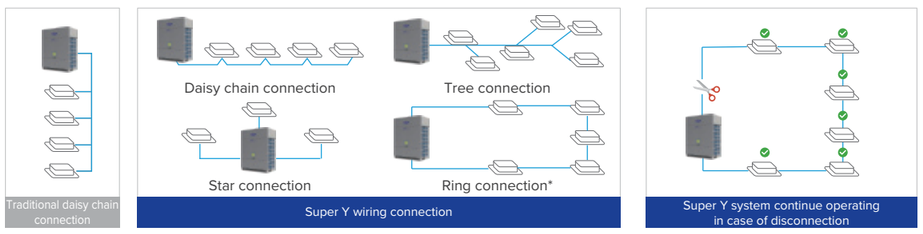
New & Unique

Original communication bus chip greatly simplifies installation and saves installation cost.

SmartLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing the installation cost and the possibility of incorrect connection. It has stronger anti-interference ability, achieving communication distance up to 2000m.

Arbitrary Topology Communication

In addition to the traditional daisy chain connection, the communication wire supports tree connection, star connection, ring connection and so on. The wring is flexible, which greatly reduces the installation cost and has no possibility of wrong connection on site.



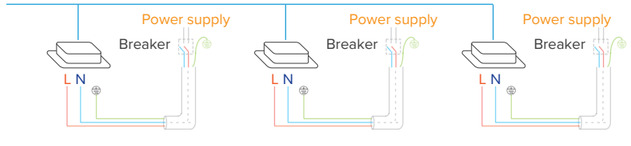
*In ring connection, the communication wire must be connected polarized (M1 port to M1 port and M2 port to M2 port).

Super Anti-interference Capability

Special waveform restoration technology enhances anti-interference performance for more stable communication.

Flexible Power Supply for Indoor Units

Super Y 's unique communication method allows the indoor units to be powered not only by a uniform power supply, but also by individual and zone power supplies, making it particularly suitable for each shop in a large complex building, which can independently power on and off its own indoor units.



Sealed Box

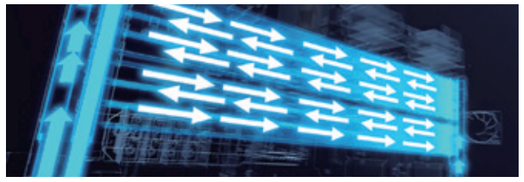
New & Unique

IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system RELIABILITY.

Fully enclosed electronic components are isolated from the external environment to protect against corrosion, sand, humidity, snowstorm and other harsh conditions, and prevent small animals and insects from entering the chamber. To provide comprehensive protection for internal electronic devices, improve the overall environmental tolerance.

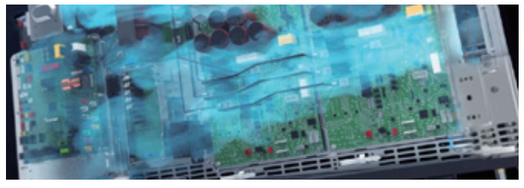
All Microchannel Refrigerant Cooling

All electronic components including inverter module, filter module and power module are cooled by specially designed microchannel refrigerant to ensure that the electronic components work in the best temperature range.



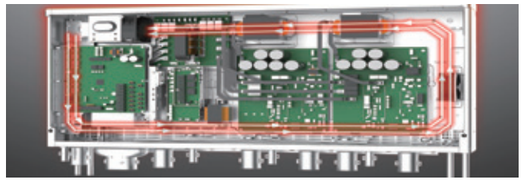
Built-in Circulating Fan

The built-in circulating fan accelerates the air flow inside the chamber, and the heat exchange is more sufficient to ensure the consistent ambient temperature inside the chamber.



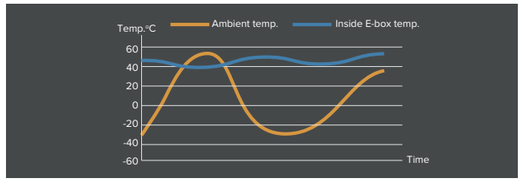
PTC Heater

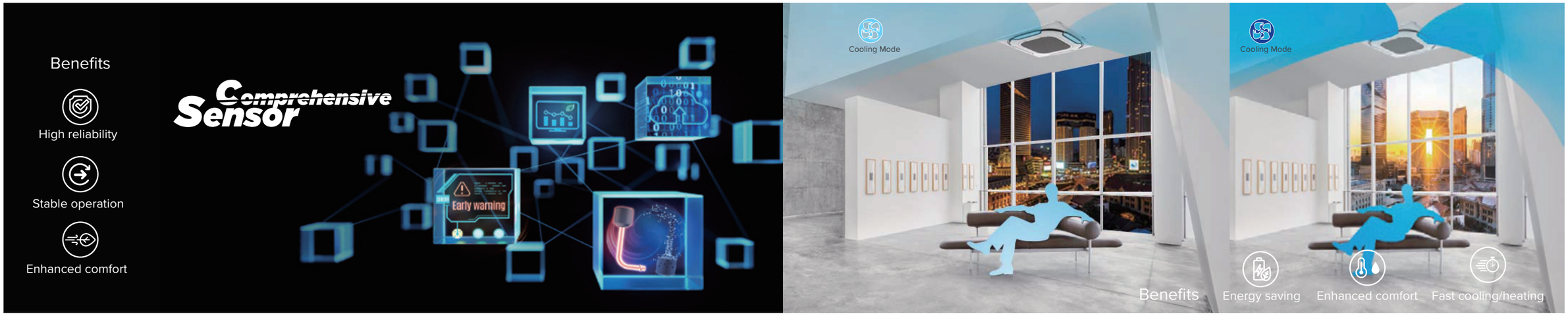
The unique PTC heater, with precise temperature control sensor, can still ensure that the temperature inside the chamber is within the normal operating temperature range of electronic devices even in the low-temperature environment of -30°C.



5 High Precision Temperature Sensors

5 high precision temperature sensors are used to accurately monitor the operation state of electronic control under various conditions to ensure that the internal temperature of the chamber is always kept within a stable range.





Comprehensive Sensor

New & Unique

The status of the refrigerant is known anywhere throughout the process, ensuring high RELIABILITY and COMFORT.

Up to 17 sensors are distributed throughout the refrigerant system, and the status of the refrigerant is known anywhere throughout the process, ensuring stable operation. At the same time, combined with the digital twin technology of the refrigerant system, a virtual sensor can be created in the event of a physical sensor failure, so that the system does not shut down in the event of a sensor failure, ensuring comfort.

Complete Sensors

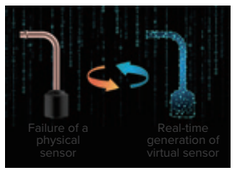
The Super Y Series VRF has the industry's most comprehensive range of 17 condition sensors with built-in data models for compressors, heat exchangers, throttling components and more. By analyzing sensor data in real time, it can sense the status of the refrigerant anywhere in the system.

Refrigerant Amount Diagnosis*

Thanks to the complete sensors, the refrigerant running state is clearly visible, so as to accurately diagnose the amount of refrigerant.

Virtual Sensor Backup

In the event of a sensor failure, other sensors can automatically simulate a virtual backup sensor, so that the VRF system can continue to operate without stopping.



Carrier ETA (CETA) 2.0

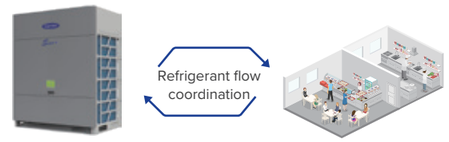
CETA is the abbreviation of Carrier Evaporating Temperature Alteration Further upgraded CETA technology to maximize ENERGY SAVING.

Built-in professional operation and maintenance algorithm, so that the annual operation energy efficiency of each set of systems increased by more than 28%.

Variable Refrigerant Flow

STEP 1: Architectural space feature recognition

The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.

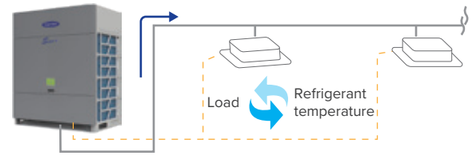


Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.

Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination

The system automatically matches the evaporating temperature (in cooling) or condensing temperature (in heating) to the room load to maximize comfort and energy efficiency.

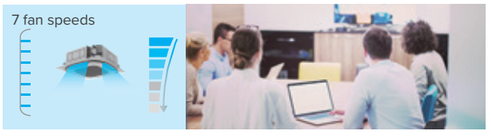


Automatic matching of the corresponding refrigerant temperature to the load.

Variable Indoor Airflow

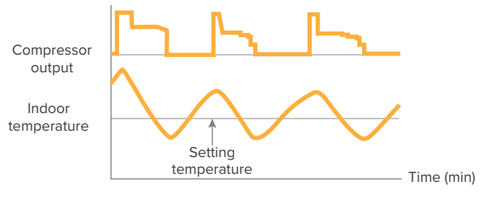
STEP 3: Adaptive indoor airflow and refrigerant flow

Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise temperature control.

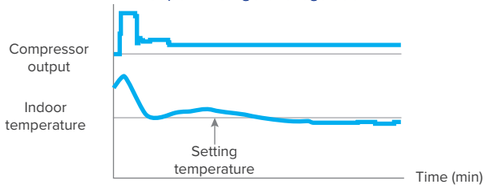


Automatic matching of the corresponding indoor airflow to the load and refrigerant temperature.

Conventional refrigerant regulation



Super Y refrigerant regulation



CHAE 2.0

Further upgraded CHAE technology to maximize COMFORT.

0.5° C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization device and other advanced technologies used in Super Y Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

360° Airflow

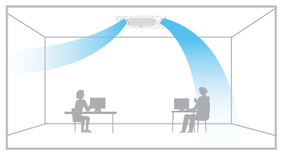
New design, round air flow path ensures uniform air flow and temperature distribution.

7 Fan Speeds

7 indoor fan speed options to meet the needs of different indoor conditions.

Individual Louver Control

The Individual louver control can control the motors separately, making it possible to control all four louvers independently.



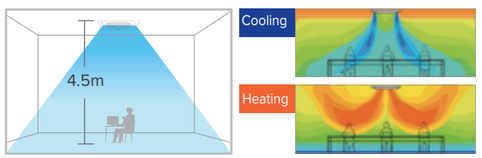
Sleep Mode

The smart sleep mode provides a comfortable sleep period and a refreshing wake up time.

*Temperature on left is for reference.

Long Distance Air Delivery*

The Four-way Cassette has an additional 50Pa static pressure for long airflow delivery and is capable of being used in spaces up to 4.5m in floor height.



*This function is available as a customization option.

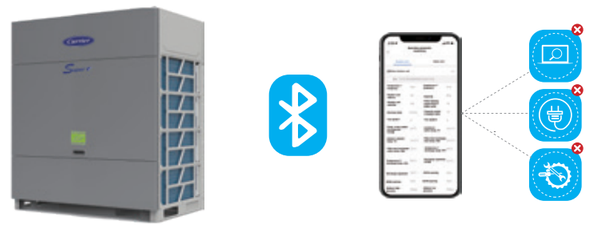
Doctor 2.0

Further upgraded DOCTOR M technology to maximize EASY SERVICE.

Based on a cloud-based platform of big data and artificial intelligence, the Super Y Series VRF can monitor the operation status of each unit in real time, predict system faults in advance and provide data analysis for system maintenance. Intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

Intelligent Maintenance Tool

With intelligent Bluetooth module or special Bluetooth after-sales kit, the data of the outdoor unit can be directly read and written on your smart phone without the needs of connecting PC or opening cabinet.



*The Bluetooth module is available as a customization option.

Real-time Monitoring of Operating Parameters

The Super Y Series VRF synchronizes and stores all the unit parameters to the cloud through the data cloud gateway, including the running status, locking status, dirty blocking rate, all spot inspection parameters and so on. Users can query real-time and historical parameters on computers, tablets and mobile phones at any time.

Cloud-based Big Data Analytics

Super Y Series VRF transmits the system operation data to the cloud in real time through the data cloud gateway, and timely reminds the system of abnormal conditions through big data analysis, helping users to proactively avoid the risk of failure that has not yet occurred and minimize hidden problems.

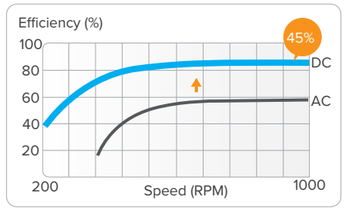
*The data cloud gateway is still under development and needs to be purchased separately.

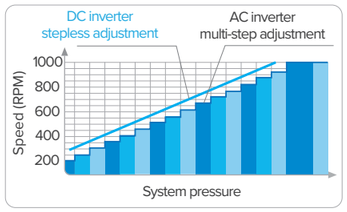
High Efficiency

Full DC Inverter Technology

Full DC Inverter for Outdoor Components

The Super Y Series VRF uses full DC inverter compressor and fan motor to achieve high precision stepless speed adjustment according to system operation, and ensures that the system is always in optimum condition, operating more efficiently, more consistently and with less noise.





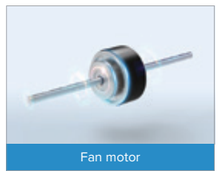
Wider frequency adjustment range

Faster cooling and heating

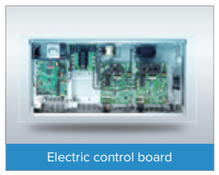
Higher energy efficiency

Full DC Inverter for Indoor Components

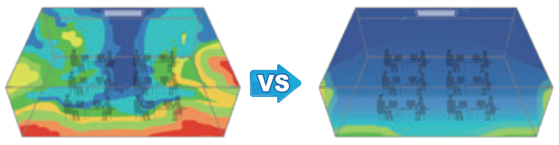
All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.


Fan motor


Drain pump

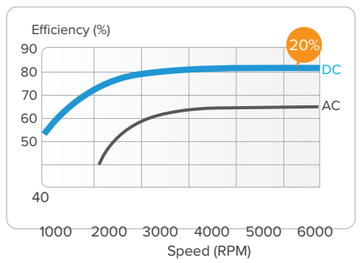

Electric control board

20%
Efficiency improvements



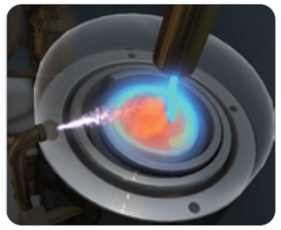
Uneven temperature distribution

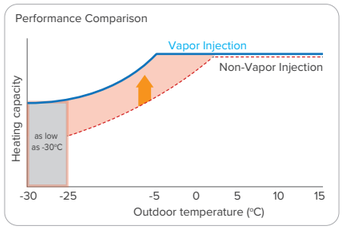
Uniform temperature distribution



Enhanced Vapor Injection (EVI) Compressor

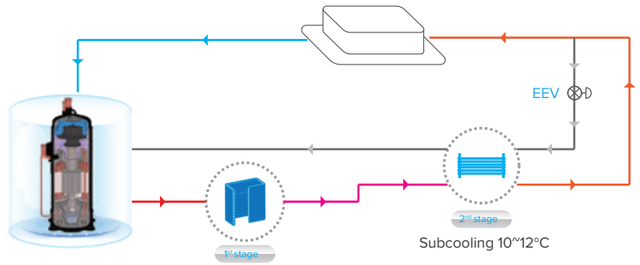
The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves both cooling and heating capacity.





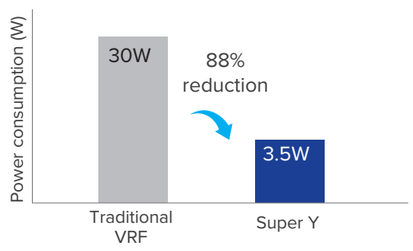
Advanced Subcooling Technology

The Super Y Series VRF uses a micro-channel heat exchanger to further cool the refrigerant and the refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound of refrigerant flow.



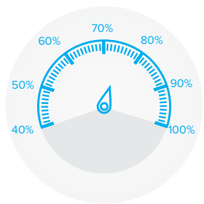
Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the Super Y Series VRF uses optimized control scheme to further reduce standby power consumption to as low as 3.5W.



60-step Energy Management

For projects with temporary electricity supply restrictions, the outdoor unit supports 60-step energy management which can be set to output 40-100% capacity in 1% increments. It prevents tripping during electricity supply restriction conditions and remains system continue to operate.



High Reliability

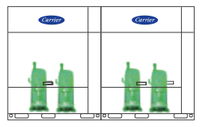
Quadruple Backup

In two fans, two compressors and multiple units, one can run in backup for another. Additionally, the Super Y series VRF generates a corresponding virtual sensor for each physical sensor by means of a digital algorithm, which serves as a backup for each other, ensuring no shutdown in the event of a fault, and further guaranteeing comfort.

1 Unit Backup

In a multi-unit system, the different units act as a backup to each other, ensuring that the system can continue to operate if one unit fails.

Intelligent load-bearing between units during normal operation

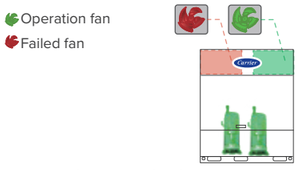


Continue operating in case of failure of one unit

2 Fan Backup

In unit with two fans, the two fans act as a backup to each other, ensuring that the system can continue to operate if one fan fails.

In normal operation, each fan runs on demand



Automatic backup operation of another fan in case of failure of one fan

3 Compressor Backup

In unit with two compressors, the two compressors act as a backup to each other, ensuring that the system can continue to operate if one compressor fails.

Intelligent load-bearing between compressors during normal operation

Continue operating in case of failure of one compressor

4 Sensor Backup

New & Unique

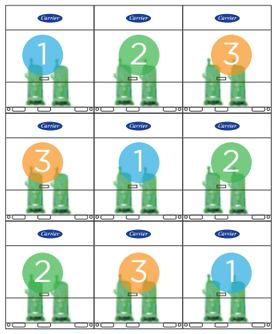
Through digital algorithms, each physical sensor generates a corresponding virtual sensor that acts as a backup to each other, ensuring that the failure of one sensor does not affect the normal operation of the system.

Automatic backup operation of the corresponding virtual sensor in case of failure of one physical sensor

Double Duty Cycling

1 Unit Duty Cycling

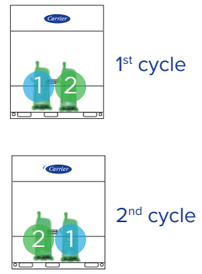
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



Note: The duty cycling sequence shown in the figure is only a schematic reference. The actual duty cycling sequence is not a fixed sequence. Please refer to the technical manual for specific rotation rules.

2 Compressor Duty Cycling

In units with two compressors, duty cycling equalizes the running time of each compressor, significantly extending compressor lifespan.



Compressor start-up sequence

Sealed Box

IP55 fully enclosed electric control box provides all-round protection for internal electronic components, greatly improving system reliability.

Anti-corrosion

Dustproof

Rain & snow proof

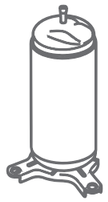
Insect proof

Comprehensive Sensor

Super Y Series VRF uses up to 19 sensors for each outdoor unit and 4 sensors for each indoor unit. The operating status of the system refrigerant is clearly visible, which can realize intelligent analysis of operation parameters, intelligent error diagnosis and forecasting, and visualized energy saving.

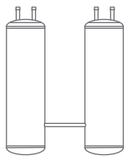
Precise Oil Control

Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

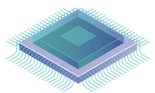


1 Compressor internal oil separation.

2 High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.



3 Oil balance pipes between gas-liquid separator ensure even oil distribution to keep compressors running normally.



4 The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

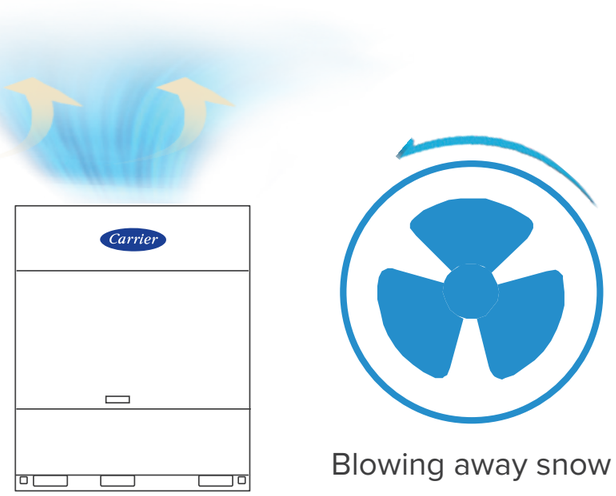
Heavy Anti-corrosion Protection*

Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.

*Heavy anti-corrosion treatment is available as a customization option.

Auto Snow-blowing Function

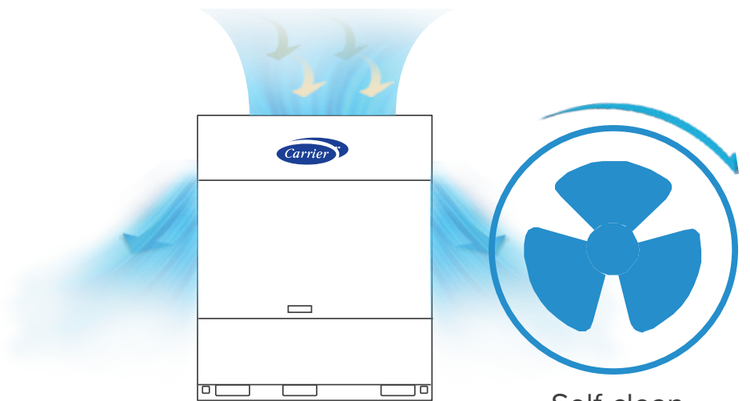
The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.



Blowing away snow

Auto Dust-clean Function

The innovatively designed dust-clean function enables the outdoor unit to prevent the dust by itself.



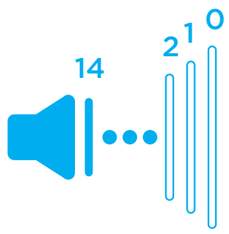
Self-clean

Enhanced Comfort

Wide Application Range

Advanced Silent Technology

15-step silent mode provide more freedom and convenience to match the customer needs.

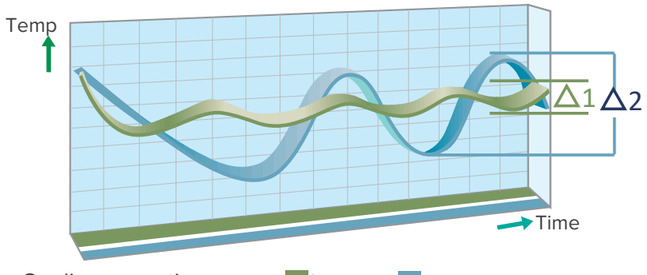


15 silent options

Fast Cooling

Thanks to advanced full DC inverter technology, the system can quickly reach full load output, shorten cooling time, reduce temperature fluctuations, and create a more comfortable living environment.

Fluctuation of room temperature



Cooling operation Inverter Fixed

Wide Capacity Range

The capacity of one Super YC Series VRF system is from 8HP to 90HP with up to 3 units combined, perfectly suited for small to large buildings.

8-20HP

22-30HP

32-60HP

62-90HP

Wide Operation Range

Thanks to the refrigerant cooling technology, the Super YC Series VRF can operate stably in a temperature range as low as -15°C and as high as 55°C.

Easy Installation and Service

Wide Range of Indoor Units

The Super YC Series VRF offers 12 types of over 100 models of indoor units to meet different scenarios of applications such as offices, shopping malls, hotels, airports, schools, hospitals, etc.

Long Piping Capability

The Super YC system can support a total piping length of up to 1100m, an installation height difference of up to 110m between indoor and outdoor units, and up to 40m between indoor units, making the Super YC Series VRF adaptable to a wide range of building designs.

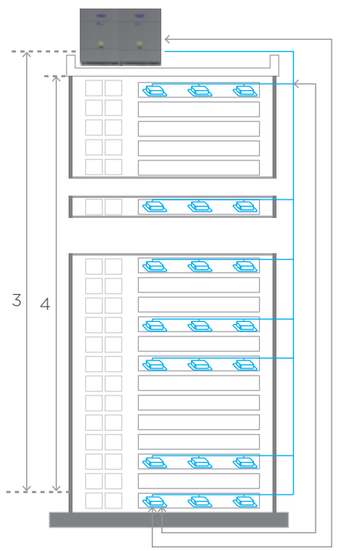
Total piping length: 1100m
1 Longest piping length - actual (equivalent): 220(260)m

2 Longest piping length after first branch: 40/120*m

3 Level difference between IDUs and ODU - ODU above (below): 110(110)m

4 Level difference between IDUs: 40m

*The longest length after first branch is 40m as a standard but can be extended to up to 120m under certain conditions. Please contact your local dealer for further information.



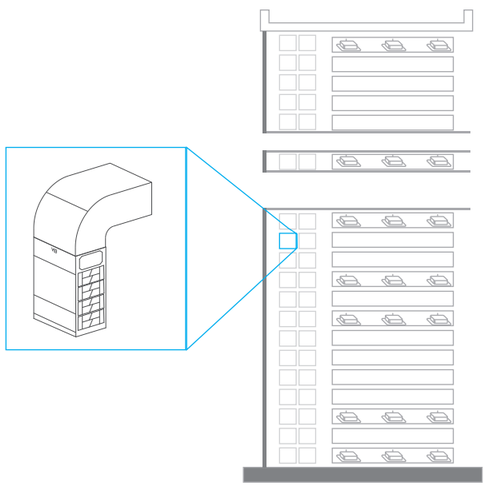
Free Wiring

Smartlink communication technology supports any wiring pattern rather than just daisy chain connection, reducing the installation cost and the possibility of incorrect connection. It has stronger anti-interference ability, achieving a communication distance of up to 2000m.

External Static Pressure up to 120Pa*

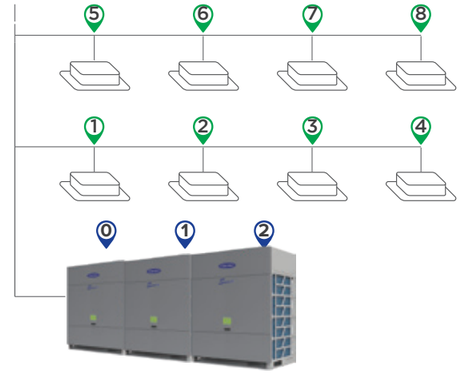
The static pressure of the outdoor unit can be up to 120Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.

*External static pressure above 20Pa is available as a customization option.



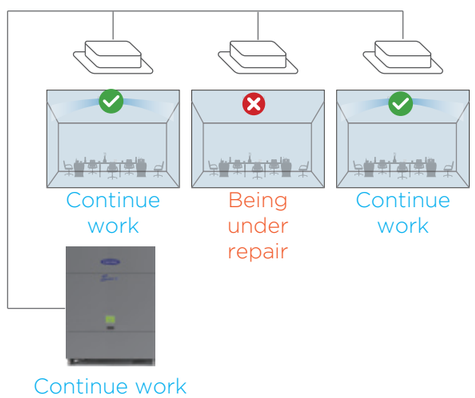
Auto Addressing

Addresses for all indoor units and combined outdoor units can be assigned automatically by the Super YC system, further simplifying installation.



Maintenance Mode

The maintenance mode allows the shutdown of some indoor units without shutting down the whole VRF system, and it can be activated on site during the maintenance period as the remaining indoor units continue to operate.



Automatic Refrigerant Charging*

Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

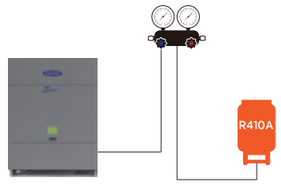
Manual refrigerant charging

1. Calculate additional refrigerant quantity
2. Connect refrigerant tank to the outdoor unit & start the filling process
3. Observe the weight scale to check the refrigerant charge
4. Close the shut-off valve manually & finish the filling process

*This function is available as a customization option.

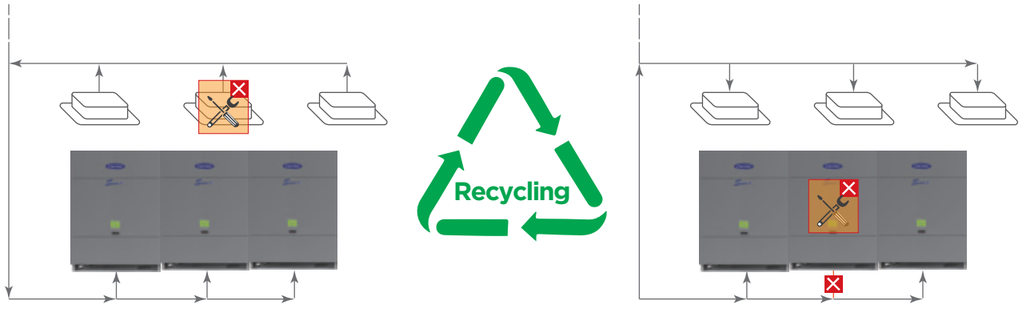
Automatic refrigerant charging

1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish the filling process



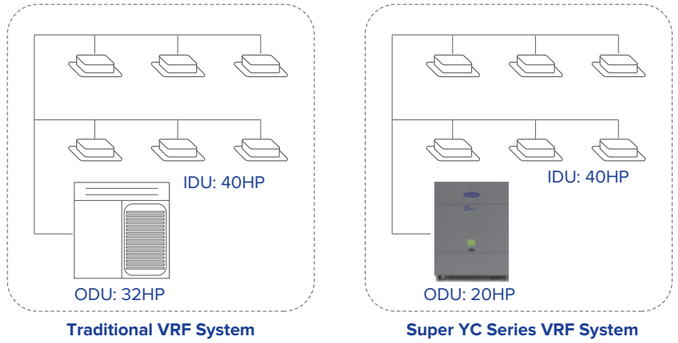
Automatic Refrigerant Recycling

When an indoor unit fails, the refrigerant can be recycled into the outdoor units. When part of the outdoor unit fails, the refrigerant can be recycled into the indoor units and the normal outdoor unit. Two types of refrigerant recycling make the maintenance process easier and more efficient.



Heavy Anti-corrosion Protection*

Compared to traditional VRF with combination ratio of 50-130%, the VC MAX Series VRF can be extended to 50-200%, and the wider combination ratio allows for more flexible system configuration. The larger combination ratio can be applied to long-term part-load operation scenarios, allowing for further reduction in installation costs.



Traditional VRF System | **Super YC Series VRF System**

*Combination ratio over 130% is available as a customization option.

Easy Software Program Upgrade

In addition to upgrading the program of outdoor and indoor units through USB and burner, the new product can also remotely upgrade all the programs of indoor and outdoor units through the data cloud gateway, making system upgrades very convenient and ensuring that the system program is always up to date.

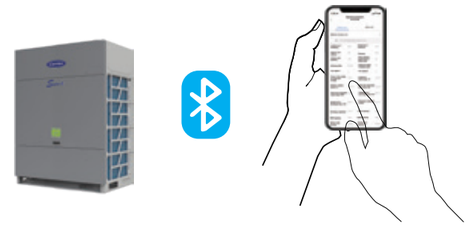
*The data cloud gateway needs to be purchased separately.

Smart Commissioning/Maintenance Tool

With the newly developed smart tool (Bluetooth module and special Bluetooth after-sales kit), system settings, operating parameter queries, trial runs and programme upgrades are all possible without opening the cabinet.

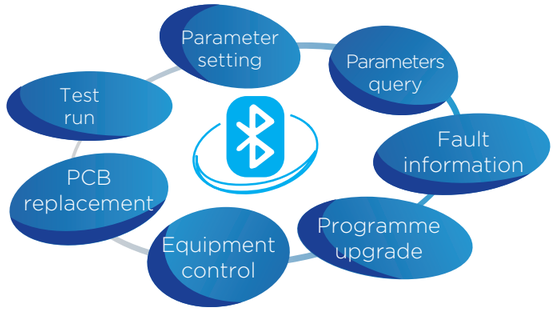
Useful in the following situations:

- Installation
- Service maintenance



Main functions:

- Fault information storage
- Operating parameters query
- Start commissioning test run
- System parameter setting
- Quick after-sales PCB replacement
- Equipment control
- Indoor and outdoor units programme upgrade



380V Specifications

HP			8	10	12
Model name			38VF008C119018	38VF010C119018	38VF012C119018
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	22.4	28	33.5
		kBtu/h	76.4	95.5	114.2
	Power input	kW	4.8	6.8	8.8
	EER		4.65	4.14	3.81
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		13	16	19
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		1	1	1
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	12600	12600	13500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	7.4	7.4	7.4
Pipe connections[2]	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4
Sound pressure level [3]		dB(A)	57	58	60
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	185	185	185
Gross weight		kg	200	200	200
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			14	16	18
Model name			38VF014C119018	38VF016C119018	38VF018C119018
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	40	45	50
		kBtu/h	136.4	153.5	170.5
	Power input	kW	9.7	12.3	13.4
	EER		4.12	3.67	3.74
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		23	26	29
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		1	1	1
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	15600	15600	16500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4	8.4	10
Pipe connections[2]	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6
Sound pressure level [3]		dB(A)	60	61	62
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	200	200	212
Gross weight		kg	215	215	232
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those of the unit's stop valves.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			20	22	24
Model name			38VF020C119018	38VF022C11901	38VF024C119018
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	56	61.5	67
		kBtu/h	191.0	209.7	228.5
	Power input	kW	17.4	17.3	19.0
	EER		3.21	3.55	3.52
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		33	36	39
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		1	2	2
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	16500	21500	21500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10	12.8	12.8
Pipe connections[2]	Liquid pipe	mm	Φ15.9	Φ19.1	Φ19.1
	Gas pipe	mm	Φ28.6	Φ31.8	Φ31.8
Sound pressure level [3]		dB(A)	63	63	64
Net dimensions (W×H×D)		mm	940×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	225	260	260
Gross weight		kg	245	285	285
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			26	28	30
Model name			38VF026C119018	38VF028C119018	38VF030C119018
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	73	78.5	85
		kBtu/h	248.9	267.7	289.9
	Power input	kW	19.4	22.3	26.4
	EER		3.76	3.52	3.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		43	46	50
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	2	2
Fan	Type		DC	DC	DC
	Quantity		2	2	2
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	22000	22000	22000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4	15.4	15.4
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8
Sound pressure level [3]		dB(A)	64	64	64
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1410×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	325	325	325
Gross weight		kg	350	350	350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those of the unit's stop valves.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

380V Specifications

HP			32	34	36
Model name (Combination unit)			38VF032C119018	38VF034C119018	38VF036C119018
Combination type			16HP+16HP	14HP+20HP	16HP+20HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	90.0	96.0	101.0
		kBtu/h	307.0	327.4	344.5
	Power input	kW	24.6	27.1	29.7
	EER		3.66	3.54	3.40
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		53	56	59
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	2	2
Fan	Type		DC	DC	DC
	Quantity		2	2	2
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	31200	32100	32100
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2	8.4+10	8.4+10
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ38.1
Sound pressure level [3]		dB(A)	64	65	65
Net dimensions (W×H×D)		mm	(940×1760×825)×2	(940×1760×825)×2	(940×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2	(1010×1945×890)×2	(1010×1945×890)×2
Net weight		kg	200×2	200+225	200+225
Gross weight		kg	215×2	215+245	215+245
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			38	40	42
Model name (Combination unit)			38VF038C119018	38VF040C119018	38VF042C119018
Combination type			18HP+20HP	16HP+24HP	18HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	106.0	112.0	117.0
		kBtu/h	361.5	382.0	399.0
	Power input	kW	30.8	31.3	32.4
	EER		3.44	3.58	3.61
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		62	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	2	2
Fan	Type		DC	DC	DC
	Quantity		2	3	3
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	33000	37100	38000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	12	8.4+12.8	10+12.8
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level [3]		dB(A)	66	66	66
Net dimensions (W×H×D)		mm	(940×1760×825)×2	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)
Net weight		kg	212+225	200+260	212+260
Gross weight		kg	232+245	215+285	232+285
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			44	46	48
Model name (Combination unit)			38VF044C119018	38VF046C119018	38VF048C119018
Combination type			20HP+24HP	16HP+30HP	18HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	123.0	130.0	135.0
		kBtu/h	419.5	443.4	460.4
	Power input	kW	36.4	38.7	39.8
	EER		3.38	3.36	3.39
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	3	3
Fan	Type		DC	DC	DC
	Quantity		3	3	3
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	38000	37600	38500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+12.8	8.4+15.4	10+15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level [3]		dB(A)	67	66	66
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)
Net weight		kg	225+260	200+325	212+325
Gross weight		kg	245+285	215+350	232+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			50	52	54
Model name (Combination unit)			38VF050C119018	38VF052C119018	38VF054C119018
Combination type			20HP+30HP	22HP+30HP	24HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	141.0	146.5	152.0
		kBtu/h	480.9	499.6	518.4
	Power input	kW	43.8	43.7	45.4
	EER		3.22	3.35	3.35
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		3	3	3
Fan	Type		DC	DC	DC
	Quantity		3	4	4
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	38500	43500	43500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+15.4	12.8+15.4	12.8+15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level [3]		dB(A)	67	67	67
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	225+325	260+325	260+325
Gross weight		kg	245+350	285+350	285+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

380V Specifications

HP			56	58	60
Model name (Combination unit)			38VF056C119018	38VF058C119018	38VF060C119018
Combination type			26HP+30HP	28HP+30HP	30HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	158.0	163.5	170.0
		kBtu/h	538.8	557.6	579.8
	Power input	kW	45.8	48.7	52.8
	EER		3.45	3.36	3.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	4	4
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	44000	44000	44000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4×2	15.4×2	15.4×2
Pipe connections2	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ41.3	Φ41.3	Φ41.3
Sound pressure level [3]		dB(A)	67	67	67
Net dimensions (W×H×D)		mm	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1410×1945×890)×2	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	325×2	325×2	325×2
Gross weight		kg	350×2	350×2	350×2
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			62	64	66
Model name (Combination unit)			38VF062C119018	38VF064C119018	38VF066C119018
Combination type			16HP+16HP+30HP	14HP+20HP+30HP	16HP+20HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	175.0	181.0	186.0
		kBtu/h	596.9	617.3	634.4
	Power input	kW	51.0	53.5	56.1
	EER		3.43	3.38	3.32
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	4	4
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	53200	54100	54100
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2+15.4	8.4+10+15.4	8.4+10+15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ41.3	Φ41.3	Φ41.3
Sound pressure level [3]		dB(A)	67	67	68
Net dimensions (W×H×D)		mm	(940×1760×825)×2+(1340×1760×825)	(940×1760×825)×2+(1340×1760×825)	(940×1760×825)×2+(1340×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2+(1410×1945×890)	(1010×1945×890)×2+(1410×1945×890)	(1010×1945×890)×2+(1410×1945×890)
Net weight		kg	200×2+325	200+225+325	200+225+325
Gross weight		kg	215×2+350	215+245+350	215+245+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			68	70	72
Model name (Combination unit)			38VF068C119018	38VF070C119018	38VF072C119018
Combination type			18HP+20HP+30HP	16HP+24HP+30HP	18HP+24HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	191.0	197.0	202.0
		kBtu/h	651.4	671.9	688.9
	Power input	kW	57.2	57.7	58.8
	EER		3.34	3.41	3.44
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	5	5
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	55000	59100	60000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10×2+15.2	8.4+12.8+15.4	10+12.8+15.4
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5
Sound pressure level [3]		dB(A)	68	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)×2+(1340×1760×825)	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2
Net weight		kg	212+225+325	200+260+325	212+260+325
Gross weight		kg	232+245+350	215+285+350	232+285+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			74	76	78
Model name (Combination unit)			38VF074C119018	38VF076C119018	38VF078C119018
Combination type			20HP+24HP+30HP	16HP+30HP+30HP	18HP+30HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling [1]	Capacity	kW	208.0	215.0	220.0
		kBtu/h	709.4	733.3	750.3
	Power input	kW	62.8	65.1	66.2
	EER		3.31	3.30	3.32
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	5	5
Fan	Type		DC	DC	DC
	Quantity		5	5	5
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	60000	59600	60500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+12.8+15.4	8.4+15.4×2	10+15.4×2
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5
Sound pressure level [3]		dB(A)	69	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2
Net weight		kg	225+260+325	200+325×2	212+325×2
Gross weight		kg	245+285+350	215+350×2	232+350×2
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

380V Specifications

HP			80	82	84
Model name (Combination unit)			38VF080C119018	38VF082C119018	38VF084C119018
Combination type			20HP+30HP+30HP	22HP+30HP+30HP	24HP+30HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	226.0	231.5	237.0
		kBtu/h	770.8	789.5	808.3
	Power input	kW	70.2	70.1	71.8
	EER		3.22	3.30	3.30
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		5	5	5
Fan	Type		DC	DC	DC
	Quantity		5	6	6
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	60500	65500	65500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+15.4×2	12.8+15.4×2	12.8+15.4×2
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ25.4
	Gas pipe	mm	Φ44.5	Φ44.5	Φ50.8
Sound pressure level[3]		dB(A)	69	69	69
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)×2	(1340×1760×825)×3	(1340×1760×825)×3
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)×2	(1410×1945×890)×3	(1410×1945×890)×3
Net weight		kg	225+325×2	260+325×2	260+325×2
Gross weight		kg	245+350×2	285+350×2	285+350×2
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			86	88	90
Model name (Combination unit)			38VF086C119018	38VF088C119018	38VF090C119018
Combination type			26HP+30HP+30HP	28HP+30HP+30HP	30HP+30HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	243.0	248.5	255.0
		kBtu/h	828.7	847.5	869.7
	Power input	kW	72.2	75.1	79.2
	EER		3.37	3.31	3.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		6	6	6
Fan	Type		DC	DC	DC
	Quantity		6	6	6
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	66000	66000	66000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4×3	15.4×3	15.4×3
Pipe connections[2]	Liquid pipe	mm	Φ25.4	Φ25.4	Φ25.4
	Gas pipe	mm	Φ50.8	Φ50.8	Φ50.8
Sound pressure level[3]		dB(A)	69	69	69
Net dimensions (W×H×D)		mm	(1340×1760×825)×3	(1340×1760×825)×3	(1340×1760×825)×3
Packed dimensions (W×H×D)		mm	(1410×1945×890)×3	(1410×1945×890)×3	(1410×1945×890)×3
Net weight		kg	325×3	325×3	325×3
Gross weight		kg	350×3	350×3	350×3
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

220V Specifications

HP			8	10	12
Model name			38VF008C117018	38VF010C117018	38VF012C117018
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	22.4	28.0	33.5
		KBtu/h	76.4	95.5	114.2
	Power input	kW	4.78	6.68	8.70
	EER		4.69	4.19	3.85
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		13	16	19
Compressor	Type			DC Inverter	
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		1	1	1
	Airflow rate	m^3/h	12600	12600	13500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	7.4	7.4	7.4
Pipe connections[2][2]	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4
Sound pressure level[3][3]		dB(A)	57	58	60
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	190	190	190
Gross weight		kg	205	205	205
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55

HP			14	16	18
Model name			38VF014C117018	38VF016C117018	38VF018C117018
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	40.0	45.0	50.0
		KBtu/h	136.4	153.5	170.5
	Power input	kW	9.80	11.72	13.19
	EER		4.08	3.84	3.79
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		23	26	29
Compressor	Type			DC Inverter	
	Quantity		1	1	2
Fan	Type		DC	DC	DC
	Quantity		1	1	2
	Airflow rate	m^3/h	15600	15600	20500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4	8.4	12.8
Pipe connections[2][2]	Liquid pipe	mm	Φ15.9	Φ15.9	Φ22.2
	Gas pipe	mm	Φ28.6	Φ28.6	Φ31.8
Sound pressure level[3][3]		dB(A)	60	61	62
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1410×1945×890
Net weight		kg	200	200	315
Gross weight		kg	215	215	335
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those of the unit's stop valves.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			20	22	24
Model name			38VF020C117018	38VF022C117018	38VF024C117018
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	56.0	61.5	67.0
		KBtu/h	191.0	209.7	228.5
	Power input	kW	15.14	17.08	19.14
	EER		3.70	3.60	3.50
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		33	36	39
Compressor	Type			DC Inverter	
	Quantity		2	2	2
Fan	Type		DC	DC	DC
	Quantity		2	2	2
	Airflow rate	m^3/h	20500	20500	21000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	12.8	12.8	12.8
Pipe connections[2][2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8
Sound pressure level[3][3]		dB(A)	63	63	64
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1410×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	315	315	315
Gross weight		kg	335	335	335
Ambient temp. operation range	Cooling	°C	15 to 55	15 to 55	15 to 55

HP			26	28	30
Model name			38VF026C117018	38VF028C117018	38VF030C117018
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	73.0	78.5	85.0
		KBtu/h	248.9	267.7	289.9
	Power input	kW	18.91	21.81	25.84
	EER		3.86	3.60	3.29
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		43	46	50
Compressor	Type			DC Inverter	
	Quantity		2	2	2
Fan	Type		DC	DC	DC
	Quantity		2	2	2
	Airflow rate	m^3/h	21500	21500	21500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4	15.4	15.4
Pipe connections[2][2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8
Sound pressure level[3][3]		dB(A)	64	64	64
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1410×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	330	330	330
Gross weight		kg	350	350	350
Ambient temp. operation range	Cooling	°C	15 to 55	15 to 55	15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those of the unit's stop valves.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

220V Specifications

HP			32	34	36
Model name(Combination unit)			38VF032C117018	38VF034C117018	38VF036C117018
Combination type			16HP+16HP	10HP+24HP	12HP+24HP
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	90.0	95.0	100.5
		KBtu/h	306.9	324.0	342.7
	Power input	kW	23.4	25.9	28.0
	EER		3.85	3.67	3.59
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		53	56	59
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		2	3	3
Fan	Type		DC	DC	DC
	Quantity		2	3	3
	Airflow rate	m^3/h	31200	33600	34500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2	7.4+12.8	7.4+12.8
Pipe connections[2][2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ38.1
Sound pressure level[3][3]		dB(A)	64	65	65
Net dimensions (W×H×D)		mm	(940×1760×825)×2	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)
Net weight		kg	200×2	190+315	190+315
Gross weight		kg	215×2	205+335	205+335
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55

HP			38	40	42
Model name(Combination unit)			38VF038C117018	38VF040C117018	38VF042C117018
Combination type			14HP+24HP	16HP+24HP	14HP+28HP
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	107.0	112.0	118.5
		KBtu/h	364.9	381.9	404.1
	Power input	kW	29.1	31.0	32.1
	EER		3.68	3.61	3.69
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		62	64	64
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		3	3	3
Fan	Type		DC	DC	DC
	Quantity		3	3	3
	Airflow rate	m^3/h	36600	36600	37100
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4+12.8	8.4+12.8	8.4+15.4
Pipe connections[2][2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[3][3]		dB(A)	65	65	65
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)
Net weight		kg	200+315	200+315	200+330
Gross weight		kg	215+335	215+335	215+350
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			44	46	48
Model name(Combination unit)			38VF044C117018	38VF046C117018	38VF048C117018
Combination type			14HP+30HP	16HP+30HP	24HP+24HP
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling1	Capacity	kW	125.0	130.0	134.0
		KBtu/h	426.3	443.3	456.9
	Power input	kW	36.2	38.1	38.5
	EER		3.45	3.41	3.48
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	56	64
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		3	3	4
Fan	Type		DC	DC	DC
	Quantity		3	3	4
	Airflow rate	m3/h	37100	37100	42000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4+15.4	8.4+15.4	12.8×2
Pipe connections2[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8
Sound pressure level3[3]		dB(A)	65	65	66
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)	(1410×1945×890)×2
Net weight		kg	200+330	200+330	315×2
Gross weight		kg	215+350	215+350	335×2
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55

HP			50	52	54
Model name(Combination unit)			38VF050C117018	38VF052C117018	38VF054C117018
Combination type			20HP+30HP	22HP+30HP	24HP+30HP
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	141.0	146.5	152.0
		KBtu/h	480.8	499.6	518.3
	Power input	kW	41.8	43.7	45.7
	EER		3.37	3.35	3.33
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	4	4
	Airflow rate	m^3/h	42000	42000	42500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	12.8+15.4	12.8+15.4	12.8+15.4
Pipe connection[2][2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[3][3]		dB(A)	66	66	65
Net dimensions (W×H×D)		mm	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1410×1945×890)×2	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	315+330	315+330	315+330
Gross weight		kg	335+350	335+350	335+350
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

220V Specifications

HP			56	58	60
Model name(Combination unit)			38VF056C117018	38VF058C117018	38VF060C117018
Combination type			26HP+30HP	28HP+30HP	30HP+30HP
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	158.0	163.5	170.0
		KBtu/h	538.8	557.5	579.7
	Power input	kW	45.8	48.7	52.8
	EER		3.45	3.36	3.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	4	4
	Airflow rate	m^3/h	43000	43000	43000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4×2	15.4×2	15.4×2
Pipe connections[2][2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ41.3	Φ41.3	Φ41.3
Sound pressure level[3][3]		dB(A)	66	66	66
Net dimensions (W×H×D)		mm	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1410×1945×890)×2	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	330×2	330×2	330×2
Gross weight		kg	350×2	350×2	350×2
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55

HP			62	64	66
Model name(Combination unit)			38VF062C117018	38VF064C117018	38VF066C117018
Combination type			16HP+16HP+30HP	14HP+20HP+30HP	16HP+20HP+30HP
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	175.0	181.0	186.0
		KBtu/h	596.8	617.2	634.3
	Power input	kW	49.8	51.6	53.5
	EER		3.51	3.51	3.48
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		4	5	5
Fan	Type		DC	DC	DC
	Quantity		4	5	5
	Airflow rate	m^3/h	52700	57600	57600
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2+15.4	8.4+12.8+15.4	8.4+12.8+15.4
Pipe connections[2][2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ41.3	Φ41.3	Φ41.3
Sound pressure level[3][3]		dB(A)	66	66	66
Net dimensions (W×H×D)		mm	(940×1760×825)×2+(1340×1760×825)	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2
Net weight		kg	200×2+330	200+315+330	200+315+330
Gross weight		kg	215×2+350	215+335+350	215+335+350
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			68	70	72
Model name(Combination unit)			38VF068C117018	38VF070C117018	38VF072C117018
Combination type			14HP+24HP+30HP	16HP+24HP+30HP	14HP+28HP+30HP
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	192.0	197.0	203.5
		KBtu/h	654.7	671.8	693.9
	Power input	kW	55.5	57.4	58.5
	EER		3.46	3.43	3.48
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		5	5	5
Fan	Type		DC	DC	DC
	Quantity		5	5	5
	Airflow rate	m^3/h	58100	58100	58600
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4+12.8+15.4	8.4+12.8+15.4	8.4+15.4×2
Pipe connections[2][2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5
Sound pressure level[3][3]		dB(A)	66	66	66
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2
Net weight		kg	200+315+330	200+315+330	200+330×2
Gross weight		kg	215+335+350	215+335+350	215+350×2
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55

HP			74	76	78
Model name(Combination unit)			38VF074C117018	38VF076C117018	38VF078C117018
Combination type			16HP+28HP+30HP	16HP+30HP+30HP	24HP+24HP+30HP
Power supply		V/~/Hz	208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Cooling[1]	Capacity	kW	208.5	215.0	219.0
		KBtu/h	711.0	733.2	746.8
	Power input	kW	60.4	64.5	64.9
	EER		3.45	3.33	3.37
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		5	5	6
Fan	Type		DC	DC	DC
	Quantity		5	5	6
	Airflow rate	m^3/h	58600	58600	63500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4+15.4×2	8.4+15.4×2	12.8×2+15.4
Pipe connections[2][2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5
Sound pressure level[3][3]		dB(A)	66	67	67
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2	(1340×1760×825)×3
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2	(1410×1945×890)×3
Net weight		kg	200+330×2	200+330×2	315×2+330
Gross weight		kg	215+350×2	215+350×2	335×2+350
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

220V Specifications

HP			80	82	84
Model name(Combination unit)			38VF080C117018	38VF082C117018	38VF084C117018
Combination type			208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Power supply		V/~/Hz	220V 3~ 60 Hz	220V 3~ 60 Hz	220V 3~ 60 Hz
Cooling[1]	Capacity	kW	226.0	231.5	237.0
		KBtu/h	770.7	789.4	808.2
	Power input	kW	68.2	70.1	72.0
	EER		3.31	3.30	3.29
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		6	6	6
Fan	Type		DC	DC	DC
	Quantity		6	6	6
	Airflow rate	m^3/h	63500	63500	64000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	12.8+15.4×2	12.8+15.4×2	12.8+15.4×2
Pipe connections[2][2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ25.4
	Gas pipe	mm	Φ44.5	Φ44.5	Φ50.8
Sound pressure level[3][3]		dB(A)	67	67	68
Net dimensions (W×H×D)		mm	(1340×1760×825)×3	(1340×1760×825)×3	(1340×1760×825)×3
Packed dimensions (W×H×D)		mm	(1410×1945×890)×3	(1410×1945×890)×3	(1410×1945×890)×3
Net weight		kg	315+330×2	315+330×2	315+330×2
Gross weight		kg	335+350×2	335+350×2	335+350×2
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			86	88	90
Model name(Combination unit)			38VF086C117018	38VF088C117018	38VF090C117018
Combination type			208-230V 3Ph 60Hz&220-240V 3Ph 50Hz		
Power supply		V/~/Hz	220V 3~ 60 Hz	220V 3~ 60 Hz	220V 3~ 60 Hz
Cooling[1]	Capacity	kW	243.0	248.5	255.0
		KBtu/h	828.6	847.4	869.6
	Power input	kW	72.2	75.1	79.2
	EER		3.37	3.31	3.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC Inverter	DC Inverter	DC Inverter
	Quantity		6	6	6
Fan	Type		DC	DC	DC
	Quantity		6	6	6
	Airflow rate	m^3/h	64500	64500	64500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4×3	15.4×3	15.4×3
Pipe connections[2][2]	Liquid pipe	mm	Φ25.4	Φ25.4	Φ25.4
	Gas pipe	mm	Φ50.8	Φ50.8	Φ50.8
Sound pressure level[3][3]		dB(A)	68	68	68
Net dimensions (W×H×D)		mm	(1340×1760×825)×3	(1340×1760×825)×3	(1340×1760×825)×3
Packed dimensions (W×H×D)		mm	(1410×1945×890)×3	(1410×1945×890)×3	(1410×1945×890)×3
Net weight		kg	330×3	330×3	330×3
Gross weight		kg	350×3	350×3	350×3
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

OUTDOOR UNITS

Super XS Plus series

The Super XS Plus Series VRF uses algorithms and self-learning technology to monitor the operation of the equipment, so that the equipment can run stably and be maintained in time to ensure that the equipment always runs in optimal condition throughout its life cycle.

Outdoor Units

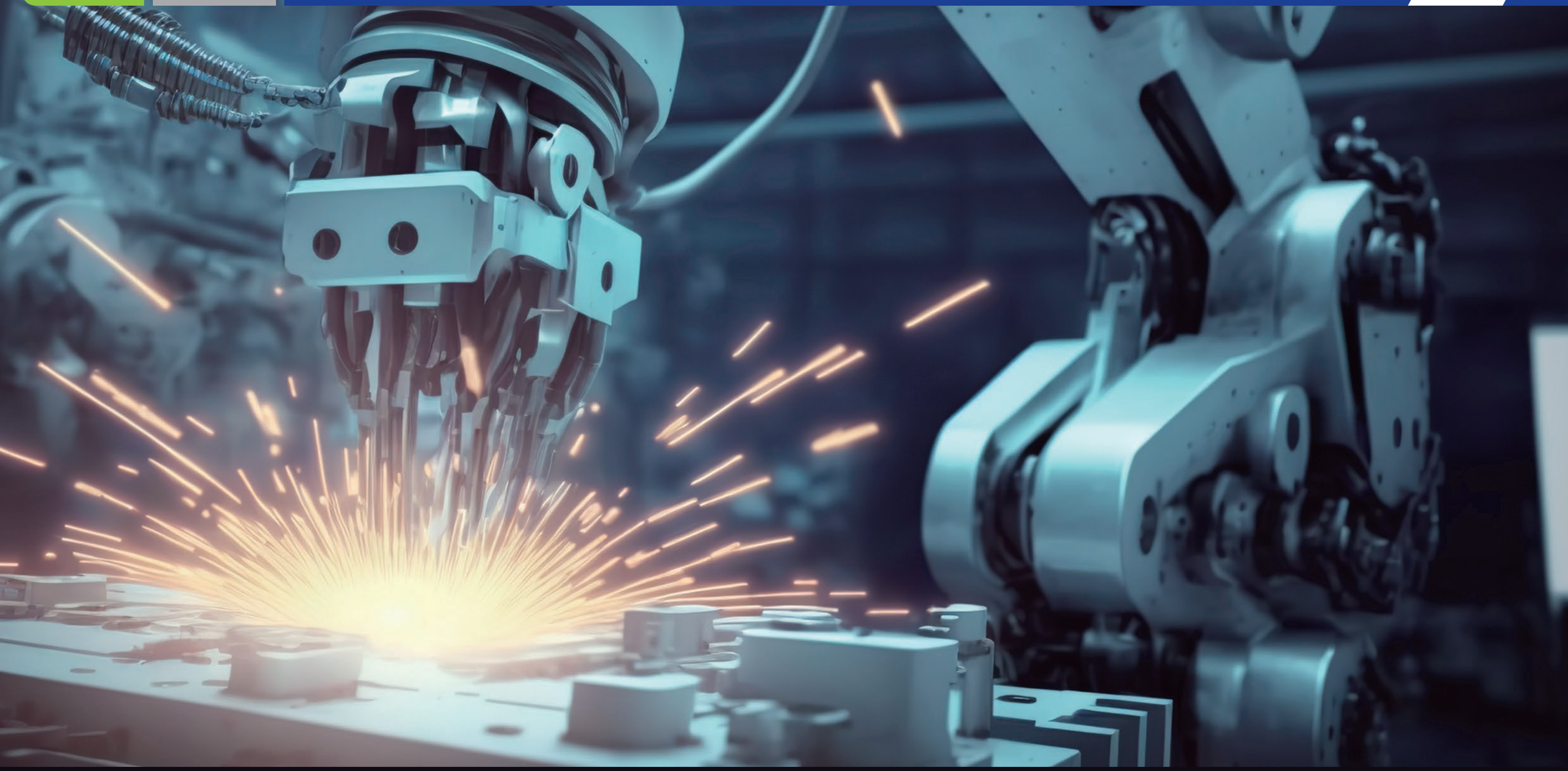
Super XS Plus series

8-12HP

Outdoor Unit Functions

Functions			Super XS Plus
●: equipped as standard; ○: customization option;			
KEY TECHNOLOGIES	CETA 2.0	Triple variable control to maximize the comfort and energy efficiency	●
	CHAE 2.0	Provides comfort and healthy air supply	●
	Doctor 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	●
HIGH EFFICIENCY	Full DC inverter technology	All electrical components of outdoor and indoor units are DC power supply, improving electrical efficiency and achieving energy saving	●
	60-step energy management	The system can be set 40% to 100% capacity output in 1% increments	●
HIGH RELIABILITY	Backup operation (fan motor)	If one fan motor fails, the other fan motor provide backup so that the system can continue operating (available for unit with two fan motors)	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provide backup so that the system can continue operating	●
	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating any compressor oil shortage problems.	●
	Heavy anti-corrosion protection	Can be customized with heavy anti-corrosion treatment for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life	○
	Refrigerant cooling PCB	10 times higher than ordinary refrigerant pipe cooling efficiency	●
	Alarm output	In case of system malfunction, remote output error information, remind maintenance personnel timely maintenance	○
	Fire alarm input	In case of fire, receive fire information in time and stop the system immediately to avoid serious problems	●
ENHANCED COMFORT	Silent mode	15-step silent mode selections provide more freedom and convenience to match the customer needs	●
	Intelligent defrosting technology	Calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting	●
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature (available in changeover priority mode)	●
	Additional ambient temperature sensor	The additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is running in cooling or heating in auto priority mode, ensuring indoor comfort	○
	Multiple priority modes	10 priority modes meet the requirements of all scenarios	●

Functions			Super XS Plus
●: equipped as standard; ○: customization option;			
WIDE APPLICATION RANGE	Wide capacity range	Meets all customer requirements from small to large buildings	8-12HP
	Wide range of indoor units	Provides 12 types and more than 100 models of VRF indoor units to meet different application scenarios	●
	Wide operation range	Operates stably under extreme conditions	-5~52℃ (C) -25~30℃ (H)
	Long piping capability	Benefits for the system design, installation flexibility, as well as the less installation cost	●
EASY INSTALLATION AND SERVICE	Auto addressing (ODU~IDU)	Distributes addresses to indoor units automatically, simplifying the installation	●
	Automatic refrigerant charging	Makes installation and service easier and more efficient	○
	Automatic refrigerant recycling	Refrigerant can recycle to ODUs or IDUs and normal ODUs, making the maintenance easier and more efficient	●
	Digit display	4 digit 7-segment display can be intuitive for parameter setting, parameter check and error check	●
	Arbitrary topology of communication wire	Supports any communication topology, greatly simplifies installation and reduces installation cost	●
	2-core non-polarity communication wiringbetween the indoor and outdoor units	Simplifies installation and reduces wiring failures	●
	Supports manual and automatic defrosting	Improves maintenance efficiency	●
	Supports manual and automatic oil return	Improves maintenance efficiency	●
	Easy software program upgrade*1	The software program can be upgraded via on-site USB and burning, or remotely via the web	●
	Flexible controller connection	Central controller and BMS gateway can connect to ODU at the same time, central controller can connect to ODU	●
	Easy system commissioning and checking via cloud gateway	System commissioning and checking can easily be completed on-site or remotely via the web	●
	Intelligent maintenance tool	Intelligent Bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency	○

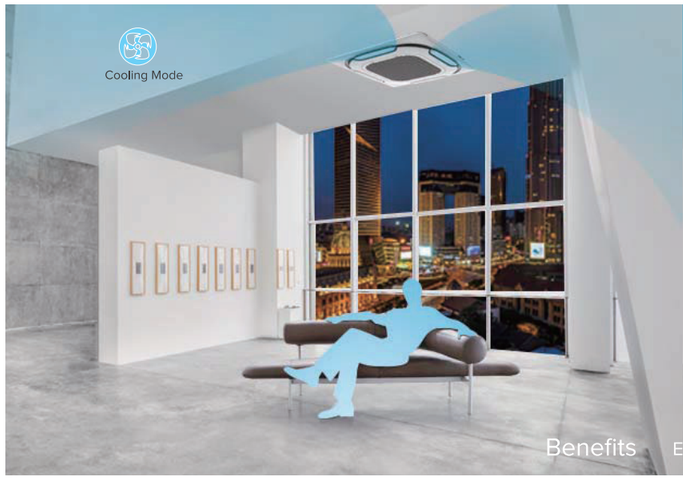


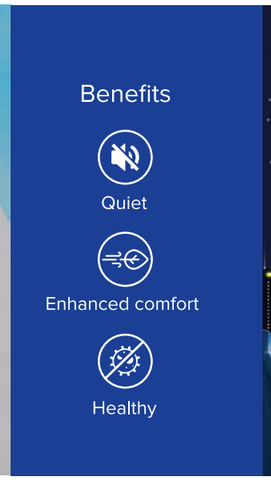
INNOVATIVE TECHNOLOGIES

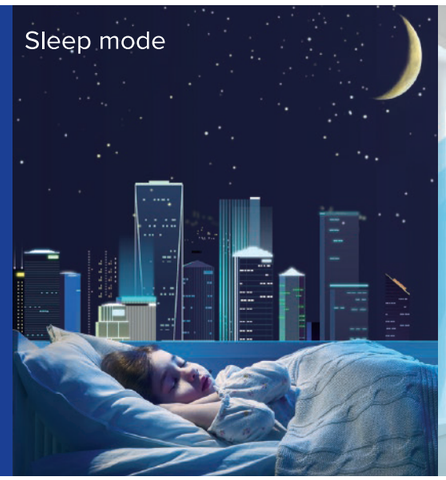
CETA 2.0

CHAE 2.0

DOCTOR 2.0







Carrier ETA (CETA) 2.0

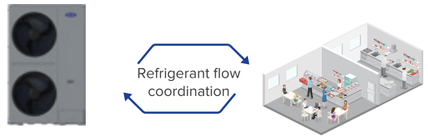
CETA is the abbreviation of Carrier Evaporating Temperature Alteration Further upgraded CETA technology to maximize ENERGY SAVING.

Built-in professional operation and maintenance algorithm, so that the annual operation energy efficiency of each setof systems increased by more than 28%.

Variable Refrigerant Flow

STEP 1: Architectural space feature recognition

The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.

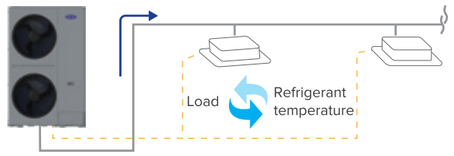


Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.

Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination

The system automatically matches the evaporating temperature (in cooling) or condensing temperature (in heating) to the room load to maximize comfort and energy efficiency.



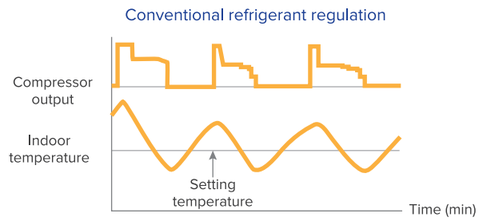
Automatic matching of the corresponding refrigerant temperature to the load.

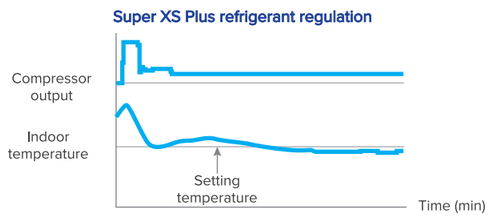
Variable Indoor Airflow

STEP 3: Adaptive indoor airflow and refrigerant flow

Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise temperature control.

Automatic matching of the corresponding indoor airflow to the load and refrigerant temperature.





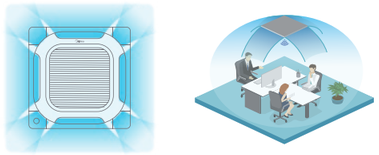
CHAE 2.0

Further upgraded CHAE technology to maximize COMFORT.

0.5° C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization device and other advanced technologies used in 3rd Gen IDU Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

360° Airflow

New design, round air flow path ensures uniform air flow and temperature distribution.

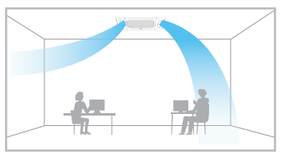


7 Fan Speeds

7 indoor fan speed options to meet the needs of different indoor conditions.

Individual Louver Control

The Individual louver control can control the motors separately, making it possible to control all four louvers independently.



Sleep Mode

The smart sleep mode provides a comfortable sleep period and a refreshing wake up time.

*Temperature on left is for reference.

High Efficiency

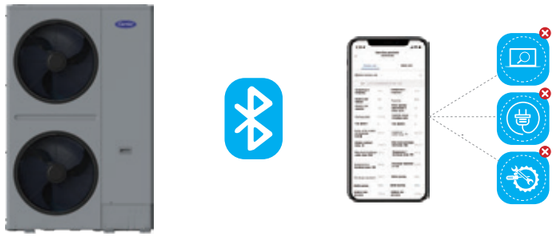
Doctor 2.0

Further upgraded Diagnosis technology to maximize EASY SERVICE.

Based on a cloud-based platform of big data and artificial intelligence, the Super XS Plus VRF can monitor the operation status of each unit in real time, predict system faults in advance and provide data analysis for system maintenance. Intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

Intelligent Maintenance Tool

With intelligent Bluetooth module or special Bluetooth after-sales kit, the data of the outdoor unit can be directly read and written on your smart phone without the needs of connecting PC or opening cabinet.



*The Bluetooth module is available as a customization option.

Real-time Monitoring of Operating Parameters

The Super XS Plus VRF synchronizes and stores all the unit parameters to the cloud through the data cloud gateway, including the running status, locking status, dirty blocking rate, all spot inspection parameters and so on. Users can query real-time and historical parameters on computers, tablets and mobile phones at any time.

Cloud-based Big Data Analytics

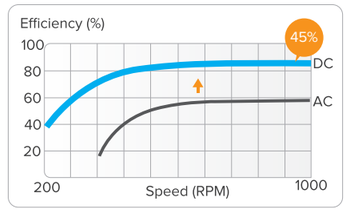
Super XS Plus VRF transmits the system operation data to the cloud in real time through the data cloud gateway, and timely reminds the system of abnormal conditions through big data analysis, helping users to proactively avoid the risk of failure that has not yet occurred and minimize hidden problems.

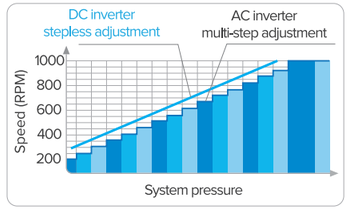
*The data cloud gateway is still under development and needs to be purchased separately.

Full DC Inverter Technology

Full DC Inverter for Outdoor Components

The Super XS Series VRF uses full DC inverter compressor and fan motor to achieve high precision stepless speed adjustment according to system operation, and ensures that the system is always in optimum condition, operating more efficiently, more consistently and with less noise.

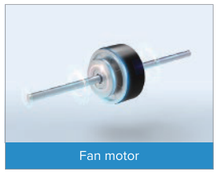


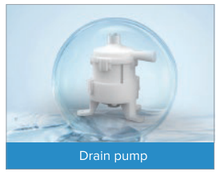


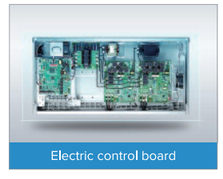
- Wider frequency adjustment range
- Faster cooling and heating
- Higher energy efficiency

Full DC Inverter for Indoor Components

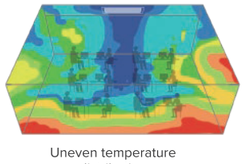
All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.


Fan motor

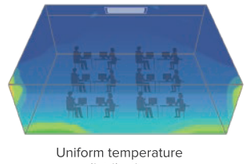

Drain pump

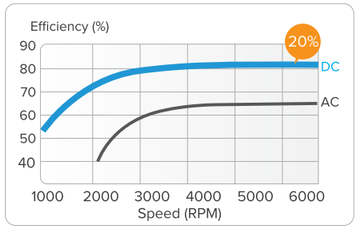

Electric control board

20%
Efficiency improvements


Uneven temperature distribution

VS

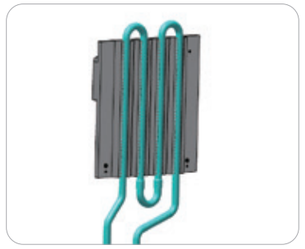

Uniform temperature distribution



High Reliability

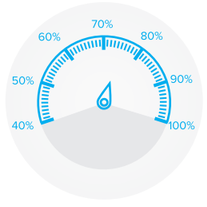
Refrigerant Cooling PCB

The Super XS Plus VRF use refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components ,guaranteeing the stable and safe running of the control system.



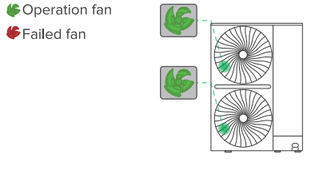
60-step Energy Management

For projects with temporary electricity supply restrictions, the outdoor unit supports 60-step energy management which can be set to output 40-100% capacity in 1% increments. It prevents tripping during electricity supply restriction conditions and remains system continue to operate.

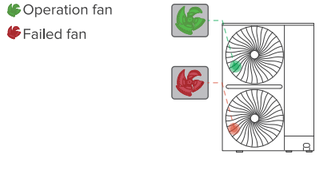


Reliable Fan Backup

In unit with two fans, the two fans act as a backup to each other, ensuring that the system can continue to operate if one fan fails.



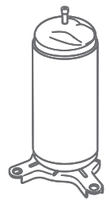
In normal operation, each fan runs on demand



Automatic backup operation of another fan in case of failure of one fan

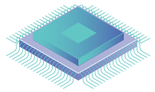
Precise Oil Control

Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.



1 Compressor internal oil separation.

2 High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.



3 The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

Heavy Anti-corrosion Protection*

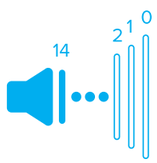
Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.

* Heavy anti-corrosion treatment is available as a customization option.

Enhanced Comfort

Advanced Silent Technology

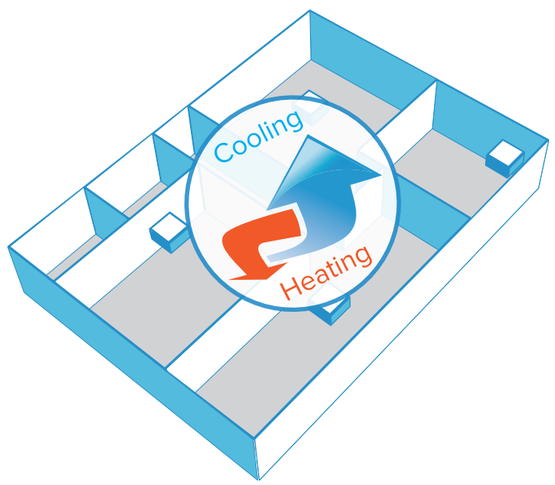
15-step silent mode provide more freedom and convenience to match the customer needs.



15 silent options

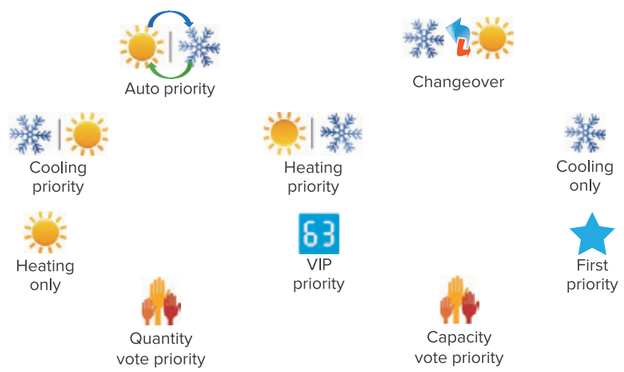
Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.



10 Priority Modes

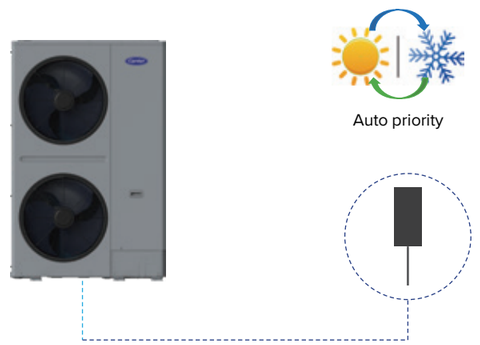
10 priority mode options provide more freedom and convenience to match the customer needs.



Additional Ambient Temperature Sensor*

The Super XS Plus Series VRF can be equipped with an additional external ambient temperature sensor to determine whether the system is operating in cooling or heating in auto priority mode. For some installations, the ambient temperature sensor fixed on the unit cannot detect the true ambient temperature, resulting in the system operating in an inappropriate mode and affecting indoor comfort. The external ambient temperature sensor can detect the true outdoor ambient temperature, and correctly judge whether the system is running in cooling or heating mode, ensuring indoor comfort.

*This function is available as a customization option.



Enhanced Comfort

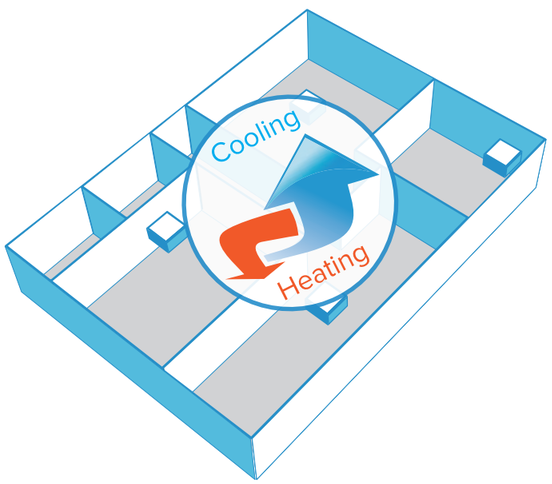
Advanced Silent Technology

15-step silent mode provide more freedom and convenience to match the customer needs.

15 silent options

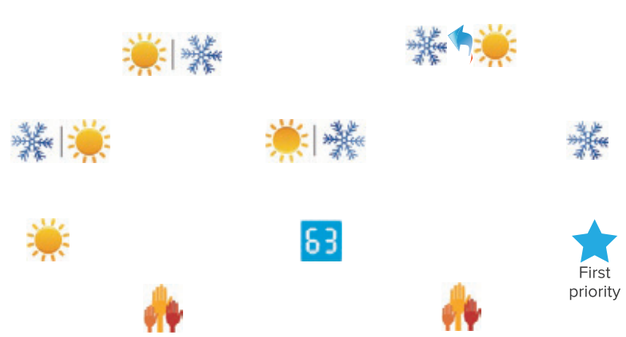
Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.



10 Priority Modes

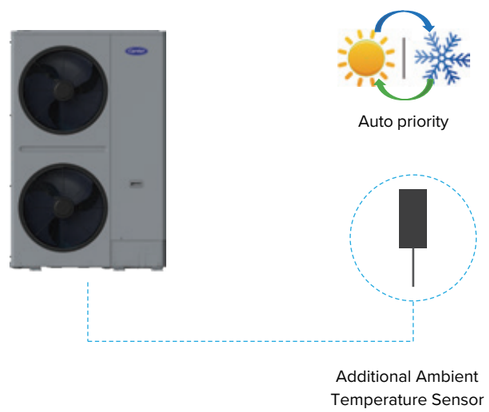
10 priority mode options provide more freedom and convenience to match the customer needs.



Additional Ambient Temperature Sensor*

The Super XS Plus Series VRF can be equipped with an additional external ambient temperature sensor to determine whether the system is operating in cooling or heating in auto priority mode. For some installations, the ambient temperature sensor fixed on the unit cannot detect the true ambient temperature, resulting in the system operating in an inappropriate mode and affecting indoor comfort. The external ambient temperature sensor can detect the true outdoor ambient temperature, and correctly judge whether the system is running in cooling or heating mode, ensuring indoor comfort.

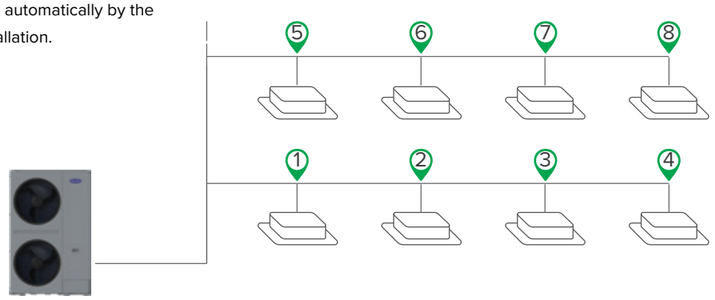
*This function is available as a customization option.



Easy Installation and Service

Auto Addressing

Addresses for all indoor unitscan be assigned automatically by the Super XS Plus system, further simplifying installation.



Automatic Refrigerant Charging*

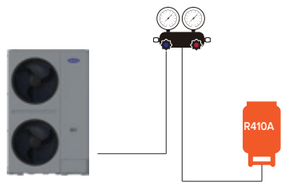
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

Manual refrigerant charging

1. Calculate additional refrigerant quantity
2. Connect refrigerant tank to the outdoor unit & start the filling process
3. Observe the weight scale to check the refrigerant charge
4. Close the shut-off valve manually & finish the filling process

Automatic refrigerant charging

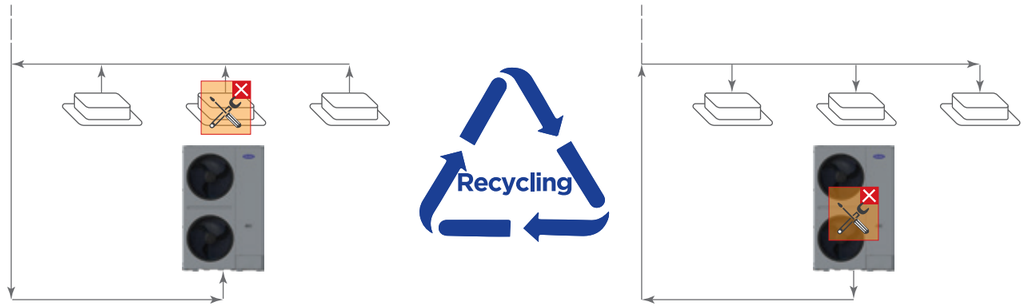
1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish the filling process



*This function is available as a customization option.

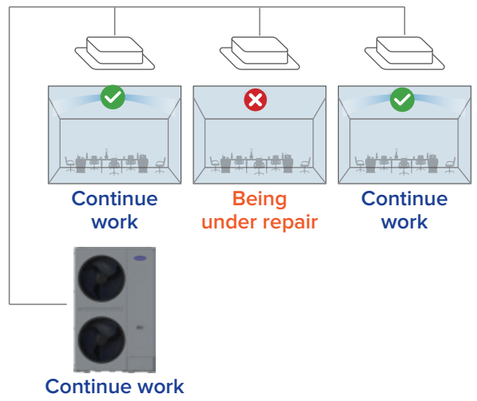
Automatic Refrigerant Recycling

When an indoor unit fails, the refrigerant can be recycled into the outdoor unit. When the outdoor unit fails, the refrigerant can be recycled into the indoor units. Two types of refrigerant recycling make the maintenance process easier and more efficient.



Maintenance Mode

The maintenance mode allows the shutdown of some indoor units without shutting down the whole VRF system, and it can be activated on site during the maintenance period as the remaining indoor units continue to operate.



Easy Software Program Upgrade

In addition to upgrading the program of outdoor and indoor units through USB and burner, the new product can also remotely upgrade all the programs of indoor and outdoor units through the data cloud gateway, making system upgrades very convenient and ensuring that the system program is always up to date.

*The data cloud gateway is still under development and needs to be purchased separately.

Specifications

HP			8	10
Model name			38VR008H117016	38VR010H117016
Power supply		V/~/Hz	220/3/50(60)	
Cooling[1]	Capacity	kW	25.2	28
	Power input	kW	5.75	7.51
	EER		4.38	3.73
Heating[2]	Capacity	kW	27	31.5
	Power input	kW	5.65	6.75
	COP		4.78	4.67
Connected indoor unit	Total capacity		50-160% of outdoor unit capacity	
	Maximum quantity		13	16
Compressor	Type		DC inverter	
	Quantity		1	
Fan	Motor type		DC	
	Quantity		2	
Refrigerant	Type		R410A	
	Factory charge	kg	5.4	5.4
Pipe connections[3]	Liquid pipe	mm	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4
Sound pressure level[4]		dB(A)	58	60
Net dimensions (W×H×D)		mm	1130×1760×445	
Packed dimensions (W×H×D)		mm	1210×1916×597	
Net weight		kg	171	
Gross weight		kg	185	
Ambient Temp. operation range	Cooling	℃	-5~52	
	Heating	℃	-25~30	

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Specifications

HP			12
Model name			38VR012H117016
Power supply		V/~/Hz	220/3/50(60)
Cooling[1]	Capacity	kW	33.5
	Power input	kW	7.96
	EER		4.21
Heating[2]	Capacity	kW	37.5
	Power input	kW	7.85
	COP		4.78
Connected indoor unit	Total capacity		50-160% of outdoor unit capacity
	Maximum quantity		19
Compressor	Type		DC inverter
	Quantity		1
Fan	Motor type		DC
	Quantity		2
Refrigerant	Type		R410A
	Factory charge	kg	5.4
Pipe connections[3]	Liquid pipe	mm	Φ12.7
	Gas pipe	mm	Φ25.4
Sound pressure level[4]		dB(A)	61
Net dimensions (W×H×D)		mm	1130×1760×445
Packed dimensions (W×H×D)		mm	1210×1916×597
Net weight		kg	171
Gross weight		kg	185
Ambient Temp. operation range	Cooling	℃	-5~52
	Heating	℃	-25~30

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Mini VRF

Super XS(B) Series
Super XS(C) Series

The Super XS Plus Series VRF uses algorithms and self-learning technology to monitor the operation of the equipment, so that the equipment can run stably and be maintained in time to ensure that the equipment always runs in optimal condition throughout its life cycle.

Mini VRF Outdoor Unit

kW	Btu/h	Super XS(B)			Super XS(C)	
Power supply		220-240V 1Ph 50(60)Hz				
Image						
8	28K	●			●	
10	36K	●			●	
12	42K		●		●	
14	48K		●			●
16	56K		●			●
18	60K			●		●

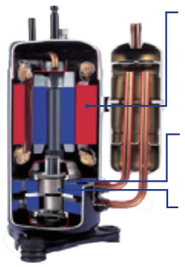
Outdoor Unit Functions

Function		Super XS(B)	Super XS(C)
High Efficiency	Full inverter compressors	●	●
	Full DC fan motors	●	●
High Reliability	Anti - corrosion protection	●	●
	Refrigerant cooling PCB	●	●
Enhanced Comfort	Intelligent defrosting technology	●	×
	Silent mode	●	●
	Multiple priority modes	●	●
Easy Installation and Service	Auto addressing	●	●
	Long piping length	●	●
	All flare connections	●	●
	Saving more installation space	●	●
	Easy transportation	●	●
	Modbus function	×	●

HIGH EFFICIENCY
HIGH RELIABILITY

DC Inverter Compressor

DC inverter compressors make the output of the outdoor unit to be modulated by the cooling or heating demands of the zone that it controls. This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the environment.



DC Compressor (Twin Rotary)

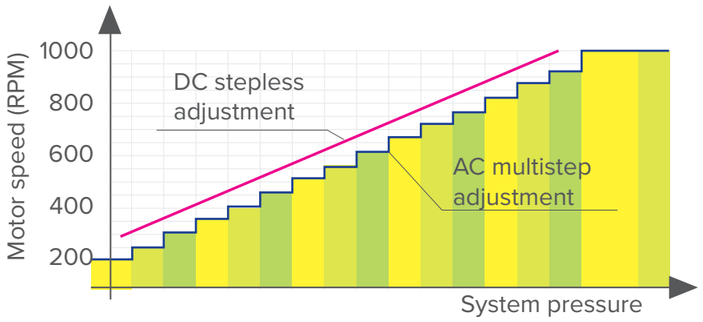
Highly Efficient DC Motor:
- Creative motor core design
- High density neodymium magnet
- Concentrated type stator
-Wider operating frequency range

Better Balance and Extremely Low Vibration:
- Twin eccentric cams
- 2 balance weights

Highly Stable Moving Parts:
- Optimal material matching rollers and vanes
-Optimize compressor drive technology
- Highly robust bearings
-Compact structure

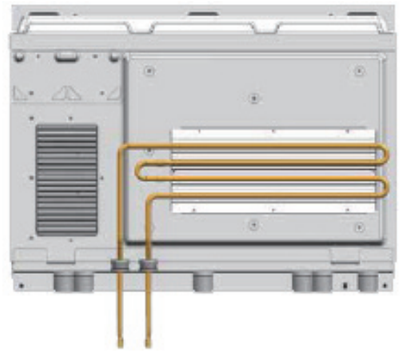
DC Fan Motor

DC fan motor features in DC stepless adjustment ,maintaining system with the minimum power consumption, which offer you best comfort and less cost.



Refrigerant Cooling PCB

The unit uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8 degrees, guaranteeing the stable and safe running of the control system.



Multiple Protection Function

Multiple protection function, such as temperature protection, current protection, pressure protection, compressor overload protection, etc., ensuring the system consistently safe and reliable operation.

Temperature protection

Current protection

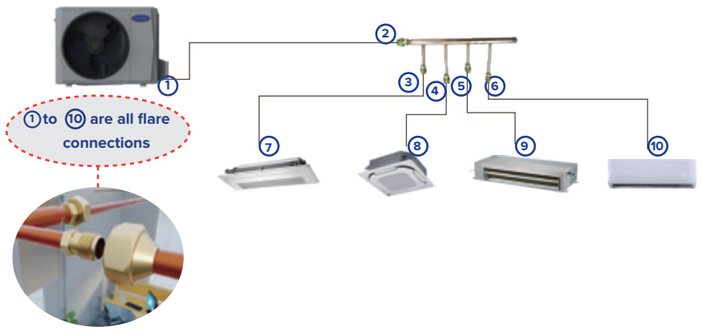
Pressure protection

Compressor overload protection

EASY INSTALLITON， EASY SERVICE

All Flare Connections, The Easiest VRF to Install

VRF system uses all flare connection which can greatly simplify installation. The multiple branch header with 1 to 2, 3, 4,5 or 6 options further simplify installation.

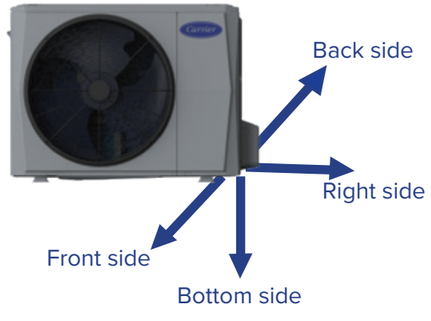


Less Required Space for VRF Installation

There’ s only one pipe for Super XS(B) VRF to connect indoor and outdoor units, which not only includes less special pipe and punching needs, but also reduces pipes space. In this way, there would be less occupied space for VRF installation.

Four-Way Piping Connection

A four-direction space is available for connecting pipes and wiring in various installation sites.

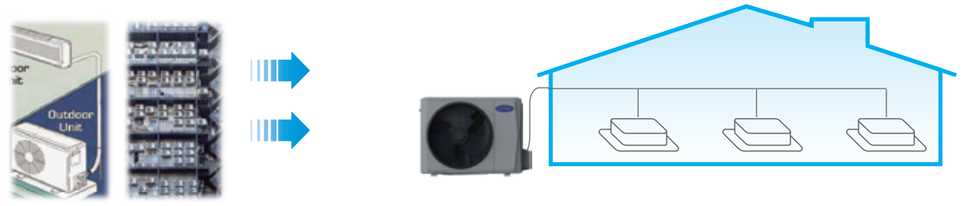


Auto Addressing

Outdoor units can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.

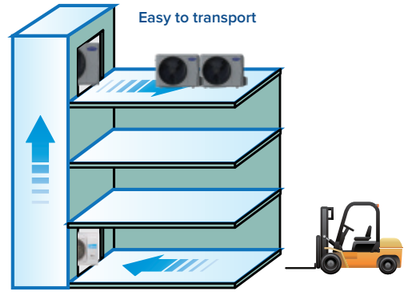
Space Saving

One VRF outdoor unit can connect 1 to 9 indoor units, which greatly saves the installation space of outdoor units and retains buildings' original aesthetics. compared to the traditional split AC. It is very suitable for use in residential and light commercial scenarios, such as villas, restaurants, small and medium-sized supermarkets, etc.



Easy Transportation

Mini Series VRF can be transported by elevator which makes installation dramatically easy, and effectively reduces time and labor thanks to the small size.



WIDE APPLIACATION RANGE

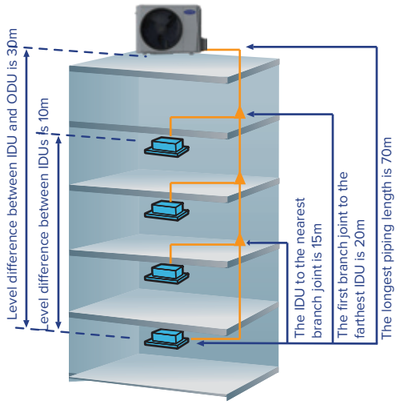
Super XS(C)

Wide Operation Range

The VRF system operates stably under extreme conditions, ranging from minus -15°C to 55°C.

Long Piping Length

The Super XS(B) series Mini VRF provides a total piping length possibility of 130m, a maximum height difference between outdoor and indoor units of 30m. The height difference between indoor units can be up to 10m. These generous allowances facilitate an extensive array of system designs.

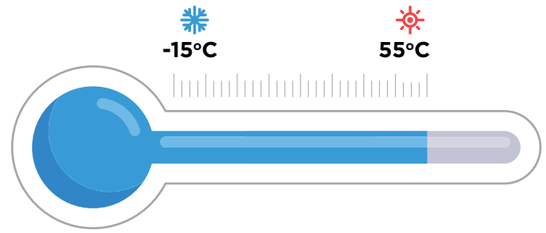


	Permitted value(m)		28kBtu/h	36/42kBtu/h	48/56/60kBtu/h
Pipe Length	Total Pipe Length(Actual)		70	90	130
	Longest Piping	Actual Length	35	45	60
		Equivalent Length	40	50	70
	Pipe Length (IDU to the nearest branch)		20	20	20
Level Difference	Level difference between IDU~ODU	Outdoor Unit Up	10	20	30
		Outdoor Unit Down	10	20	20
	Level difference between IDU~IDU		10	10	10

Super XS(C)

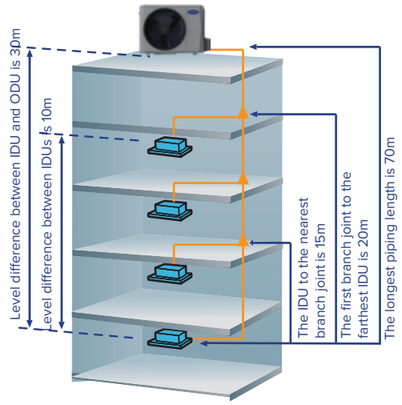
Wide Operation Range

The VRF system operates stably under extreme conditions, ranging from minus -15°C to 55°C.



Long Piping Length

The Super XS(C) series Mini VRF provides a total piping length possibility of 130m, a maximum height difference between outdoor and indoor units of 30m. The height difference between indoor units can be up to 10m. These generous allowances facilitate an extensive array of system designs.



	Permitted value(m)		28kBtu/h	36/42kBtu/h	48/56/60kBtu/h
Pipe Length	Total Pipe Length(Actual)		70	90	130
	Longest Piping	Actual Length	35	45	60
		Equivalent Length	40	50	70
	Pipe Length (IDU to the nearest branch)		20	20	20
Level Difference	Level difference between IDU~ODU	Outdoor Unit Up	10	20	30
		Outdoor Unit Down	10	20	20
	Level difference between IDU~IDU		10	10	10

Super XS(B) Series - Heat Pump

220-240V/1Ph/50(60)Hz

Model			38VR003H112016(B)	38VR0S4H112016(B)	38VR004H112016(B)
Power supply		V-Ph-Hz	220-240/1/ 50(60)		
Cooling[1]	Capacity	kBtu/h	27	34	42
		kW	8	10	12.3
	Input	kW	2.0	2.55	3.18
	EER	kW/ KW	4.00	3.92	3.87
Heating[2]	Capacity	kBtu/h	30	41	47
		kW	9	12	14
	Input	kW	1.95	2.97	3.45
	COP	kW/ kW	4.62	4.04	4.06
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity		
	Quantity		1~4	1~6	1~7
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan	Motor type		DC motor	DC motor	DC motor
	Quantity		1	1	1
	Output	W	80	80	170
Outdoor air flow		m^3/h	3700	4000	5000
Sound pressure level[3]		dB(A)	54	54	56
Net dimensions (W x H x D)		mm	910×712×426	910×712×426	950×840×440
Packed dimensions (W x H x D)		mm	1048×810×485	1048×810×485	1025×950×510
Net weight		kg	49	52.5	62.5
Gross weight		kg	53	56.5	69.5
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	g	1700	2600	3200
	Throttle type		Electronic expansion valve		
Pipe connections	Liquid pipe	mm	9.53	9.53	9.53
	Gas pipe	mm	15.9	15.9	15.9
Ambient Temp. operation range	Cooling	℃	-15~55		
	Heating	℃	-15~27		

Model			38VR005H112016(B)	38VR006H112016(B)	38VR0S7H112016(B)
Power supply		V-Ph-Hz	220-240/1/ 50(60)		
Cooling[1]	Capacity	kBtu/h	47	52	59
		kW	14	15.5	17.5
	Input	kW	3.75	4.8	5.2
	EER	kW/ KW	3.73	3.23	3.37
Heating [2]	Capacity	kBtu/h	54	61	66
		kW	16	18	19.5
	Input	kW	3.85	4.65	5.00
	COP	kW/ kW	3.16	3.87	3.90
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity		
	Quantity		1~8	1~9	1~9
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan	Motor type		DC motor	DC motor	DC motor
	Quantity		1	1	1
	Output	W	170	170	170
Outdoor air flow		m3/h	5200	5000	5300
Sound pressure level[3]		dB(A)	56	56	57
Net dimensions (W x H x D)		mm	950×840×440	950×840×440	1040×865×523
Packed dimensions (W x H x D)		mm	1025×950 ×510	1025×950×510	1120×980×560
Net weight		kg	75	77.5	90.5
Gross weight		kg	82	84.5	91
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	g	3100	3600	4600
	Throttle type		Electronic expansion valve		
Pipe connections	Liquid pipe	mm	9.53	9.53	9.53
	Gas pipe	mm	15.9	19.1	19.1
Ambient Temp. operation range	Cooling	℃	-15~55		
	Heating	℃	-15~27		

Notes:
1.Indoor temperature 27° C DB, 19° C WB; outdoor temperature 35° C DB; equivalent refrigerant piping length 7.5m with zero level difference;connect to Cassette type indoor unit.
2.Indoor temperature 20° C DB; outdoor temperature 7° C DB, 6° C WB; equivalent refrigerant piping length 7.5m with zero level difference;connect to Cassette type indoor unit.
3. Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Super XS(C) Series – Cooling Only

Model			38VR003C112016	38VR0S4C112016	38VR004C112016
Power supply			220-240V~ 50/60Hz		
Connected indoor unit	Capacity	kW	8	10	12
		kBtu/h	27	34	41
	Input	kW	2.00	2.55	3.10
	EER		4.00	3.92	3.87
Connected indoor unit	Total capacity		50%~130% of ODU capacity		
	Maximum quantity		4	6	7
Compressor	Type		DC inverter		
	Quantity		1		
Fan	Type		DC		
	Quantity		1		
Refrigerant	Type		R410A		
	Factory charge	kg	1.33	1.56	1.85
Pipe connections[3]	Gas pipe	mm	15.9	15.9	15.9
	Liquid pipe	mm	9.53	9.53	9.53
Sound pressure level		dB(A)	51	52	54
Outdoor Unit	Dimension(W x H x D)	mm	910 x 712 x 345	910 x 712 x 345	910 x 712 x 345
	Packing (W x H x D)	mm	1045 x 800 x 485	1045 x 800 x 485	1045 x 800 x 485
	Net/Gross weight	kg	45.5/51.5	48.5/52.5	51.0/55.0
Ambient temp. operation range	Cooling (DB)	°C	-15~55		

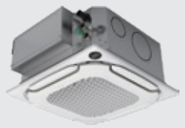
Sale Model			38VR005C112016	38VR006C112016	38VR0S7C112016
Power supply			220-240V~ 50/60Hz		
Connected indoor unit	Capacity	kW	14	16	17.5
		kBtu/h	47	54	59
	Input	kW	3.88	4.80	5.20
	EER		3.61	3.33	3.37
Connected indoor unit	Total capacity		50%~130% of ODU capacity		
	Maximum quantity		8	9	9
Compressor	Type		DC inverter		
	Quantity		1		
Fan	Type		DC		
	Quantity		1		
Refrigerant	Type		R410A		
	Factory charge	kg	2.35	2.45	2.85
Pipe connections[3]	Gas pipe	mm	15.9	15.9	15.9
	Liquid pipe	mm	9.53	9.53	9.53
Sound pressure level		dB(A)	56	56	57
Outdoor Unit	Dimension(W x H x D)	mm	950 x 840 x 360	950 x 840 x 360	950 x 840 x 360
	Packing (W x H x D)	mm	1025 x 860 x 510	1025 x 860 x 510	1025 x 860 x 510
	Net/Gross weight	kg	63.0/74.5	69.0/80.5	70.0/81.5
Ambient temp. operation range	Cooling (DB)	°C	-15~55		

Indoor Unit

One-Way Cassette
New One-way Cassette
Two-Way Cassette
Compact Four-Way Cassette
Four-Way Cassette
Slim Duct
Medium Static Pressure Duct
High Static Pressure Duct
High Static Pressure Duct(Section Type)
Wall Mounted
Floor Standing
Ceiling&Floor
Fresh Air Processing
Small Airflow Rate Fresh Air Processing
Free Standing
HRV

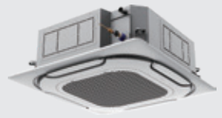
Indoor Unit Lineup

Compact Four-way Cassette



- 575mm compact body size
- 360° airflow
- Individual louver control
- 3.5m high ceiling installation
- Built-in 1200mm high-lift drain pump
- Optional medium efficiency filter
- Optional plasma sterilization module

Four-way Cassette



- 360° airflow, uniform air flow and temperature distribution
- Individual louver control
- Built-in 1200mm high-lift drain pump
- Optional medium efficiency filter
- Optional plasma sterilization module

Slim Duct

- 199mm ultra-thin height (all models)
- 450mm ultra-narrow depth (all models)
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump
- Optional medium efficiency filter
- Optional plasma sterilization module

Medium Static Pressure Duct

- ESP up to 160Pa (all models)
- 245mm ultra-thin height (all models)
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump
- Optional HEPA filter with H12 rating
- Optional medium to high efficiency filter
- Optional plasma sterilization module

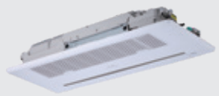
Wall Mounted

- Supports installation close to the ceiling to free up space
- Bi-directional Coanda airflow, enhanced comfort
- Quiet operation
- Optional built-in 1200mm high-lift drain pump
- Optional plasma sterilization module

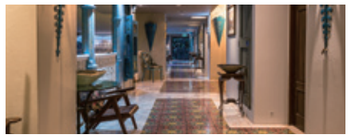
Floor Standing

- ESP up to 60Pa(F3 concealed model)
- Three appearance options to meet different
- installation requirement
  DC fan creates a more quiet and comfortable
- environment
- 0.5°C/1°C Setting Temperature Adjustment

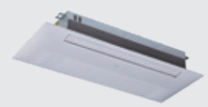
One-way Cassette



- Automatic anti-condensation
- Multiple Steps Vertical Swing
- Built-in 1200mm high-lift drain pump (Digital feedback DC water pump)



New One-way Cassette



- The fuselage thickness is only 130mm
- Vertical swing and horizontal swing
- Built-in 1200mm high-lift drain pump
- With high ceiling function, install different heights

Two-way Cassette

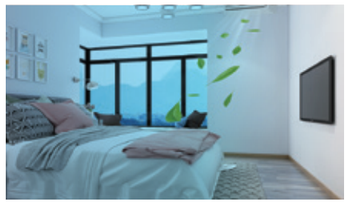
- Automatic anti-condensation
- Multiple Steps Vertical Swing
- Built-in 1200mm high-lift drain pump (Digital feedback DC water pump)

High Static Pressure Duct

- 5.6kW-16kW ESP up to 250Pa
- 20kW-56kW ESP up to 400Pa
- Section type 18kW-28kW ESP up to 280Pa
- 299mm ultra-thin height (5.6kW-16kW)
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump
- Optional HEPA filter with H13 rating
- Optional medium to high efficiency filter

■ Ceiling&Floor

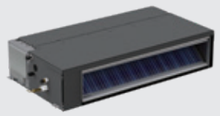
- A sleek design suits installation either on the ceiling or floor
- DC fan motor creates a more quiet and comfortable environment
- Optional 600mm high-lift drain pump (When the unit is installed on the ceiling)



■ Fresh Air Processing

- 20kW-56kW ESP up to 400Pa
- 550mm ultra-thin height (20kW-56kW)
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump

■ Small Airflow Rate Fresh Air Processing



- 9kW-28kW ESP up to 300Pa
- 310mm ultra-thin height (9kW-28kW) Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump

■ Free Standing

- 25.2kW-56kW ESP up to 400Pa(Side discharged 0Pa)
- Static pressure adaption, constant air volume supply
- 6000mm high-lift drain pump option
- Washable Evaporator
- Outdoor unit installation with IPX4 option

■ HRV

- Multiple operation modes: Auto, Bypass, Heat recovery, Free cooling mode.
- Optional CO_2 Sensor
- Optional Multi-functional Expansion Board

Indoor Unit Lineup

	kW	1.5	1.8	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0
	Btu/h	5.1k	6.1k	7.5k	9.6k	12.3k	15.4k	19.1k	21.5k	24.2k	27.3k	30.7k	34.1k	38.2k	42.7k	47.8k	54.6k	61.4k
Cassette	Compact Four-way Cassette	•		•	•	•	•	•	•									
	Four-way Cassette				•	•	•	•		•	•	•	•	•		•		
	Four-way Cassette																•	•
	One-way Cassette		•	•	•	•	•	•		•								
	New One-way Cassette		•	•	•	•	•	•		•								
	Two-way Cassette			•	•	•	•	•		•								

		kW	1.5	1.8	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0	20.0	22.4	25.2	28.0	33.5	40.0	45.0	56.0
		Btu/h	5.1 k	6.1 k	7.5 k	9.6 k	12.3 k	15.4 k	19.1 k	21.5 k	24.2 k	27.3 k	30.7 k	34.1 k	38.2 k	42.7 k	47.8 k	54.6 k	61.4 k	68.3 K	76.5 K	86.0 K	95.6 K	114.3 K	136.5 K	153.6 K	191.1 K
Duct	Slim Duct		●		●	●	●	●	●		●	●	●		●												
Duct	High Static Pressure Duct								●		●	●	●		●	●	●	●		●	●	●	●	●	●	●	●
Duct	High Static Pressure Duct (section type)																		●	●	●	●	●				
Duct	Medium Static Pressure Duct		●		●	●	●	●	●		●	●	●		●		●	●									
Wall Mounted	Wall Mounted		●		●	●	●	●	●		●	●															
Floor Standing	Floor Standing - Concealed				●	●	●	●	●		●	●															

		kW	1.5	1.8	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0	20.0	22.4	25.2	28.0	33.5	40.0	45.0	56.0
		Btu/h	5.1 k	6.1 k	7.5 k	9.6 k	12.3 k	15.4 k	19.1 k	21.5 k	24.2 k	27.3 k	30.7 k	34.1 k	38.2 k	42.7 k	47.8 k	54.6 k	61.4 k	68.3 K	76.5 K	86.0 K	95.6 K	114.3 K	136.5 K	153.6 K	191.1 K
Floor Standing	Floor Standing - Exposed				●	●	●	●	●		●	●															
Ceiling&Floor	Ceiling&Floor						●	●	●		●	●	●	●	●	●	●										
Fresh Air Processing	Small Airflow Rate Fresh Air Processing												●								●		●				
Fresh Air Processing	Fresh Air Processing																				●	●	●	●	●	●	●
Free-Standing Units	Side discharge type																						●	●		●	●
Free-Standing Units	Top discharge type																						●	●		●	●

Indoor Unit Features

	Features	One-Way Cassette	New One-Way Cassette	Two-Way Cassette	Compact Four-Way Cassette	Four-Way Cassette	Slim Duct	Medium Static Pressure Duct	High Static Pressure Duct
COMFORT & HEALTH	Quiet operation	All indoor units offer quiet operation for a tranquil indoor comfort experience.	●	●	●	●	●	●	●	●
	Auto cooling/heating changeover	Automatically switches between cooling and heating modes as needed to efficiently reach the set temperature	●	●	●	●	●	●	●	●
	Cold air prevention	During the warm-up phase, fan speed is limited to prevent cold-air discharge, with normal operation resuming afterward	●	●	●	●	●	●	●	●
	Digital display on/off	Indoor unit displays can be deactivated at night, creating a darker environment for sleeping	●	●	●	●	●	●	●	●
	Alert beep	Indoor unit alert beeps can be deactivated to prevent any unwanted disturbance	●	●	●	●	●	●	●	●
	EEV automatic adjustment	When in heating standby mode, the indoor unit automatically adjusts the EEV opening in response to the load which eliminates potential noise generated by flowing refrigerant	●	●	●	●	●	●	●	●
	Indoor temperature detection control	Users can control the entire system from a single designated indoor unit, streamlining operation and reducing complexity.	●	●	●	●	●	●	●	●
	0.5°C/1°C increment temperature adjustment	Set temperature can be adjusted in 0.5°C or 1°C increments, enabling precise comfort control.	●	●	●	●	●	●	●	●
	Home leave mode	During a prolonged absence, the indoor temperature is maintained at an energy-saving level.	●	●	●	●	●	●	●	●
	Independent power supply	Allows individual units to be shut down for repair or maintenance while other units continue to operate normally.	●	●	●	●	●	●	●	●
	Sleep mode	Gradually raises the temperature throughout the night (during cooling operation) to promote better sleep while saving energy.	●	●	●	●	●	●	●	●
	Heat exchanger mildew prevention	Fan will continue running after unit shuts off to dry out any lingering moisture, preventing mildew from forming on the heat exchanger.	●	●	●	●	●	●	●	●
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air while preventing mildew from forming on the heat exchanger.	pre-filter ●	pre-filter ●	pre-filter ●	G1● G3○ F6○	G1●	G1● F6○	G1 ● G3+F6 ○ G3+H12 ○	pre-filter ● F7 ○ H13 ○
	Fresh air intake	A dedicated outside air intake port brings fresh outdoor air inside.	4.5-7.1kW ●	4.5-7.1kW ●	●	●	●	●	●	✕
	Air filter monitoring	Monitors air flow resistance in real time and displays the level of filter blockage on the controller.	✕	✕	✕	✕	✕	●	●	●
	Silver-ion-coated drain pan	Keeps the drain pan mold free with the slow release of silver ions.	✕	✕	✕	○	○	○	○	○
	Heat exchanger self-cleaning function*	Multi-step process automatically cleans the heat exchanger via frosting following by high-temperature sterilization.	●	●	●	●	●	●	●	✕
	Humidity control	Additional humidity sensor can achieve humidity control in 35~75%	✕	✕	✕	○	○	○	○	○
	Sterilization module	Positive and negative ion sterilization module effectively kills bacteria and viruses while removing odors from indoor air.	✕	✕	✕	✕	✕	○	○	✕

* Heat exchanger self-cleaning function is only available when the 3rd Generation DC Series Mini is connected, and no AHU Kits, Fresh Air Processing Units or 2nd generation indoor units are connected to the system.

● standard feature　　O customization option　　X function not available

Indoor Unit Features

	Features		One-Way Cassette	New One-Way Cassette	Two-Way Cassette	Compact Four-Way Cassette	Four-Way Cassette	Slim Duct	Medium Static Pressure Duct	High Static Pressure Duct
AIR FLOW	Vertical swing	Automatic louver vertical-swing feature uniformly distributes airflow for more consistent temperature control	5 steps + auto	5 steps + auto	5 steps + auto	5 steps + auto	5 steps + auto	✕	✕	
	Horizontal swing	Automatic louver horizontal swing feature uniformly distributes airflow for more consistent temperature control.	✕	●	✕	✕	✕	✕	✕	✕
	Multiple fan speeds	Multiple fan speeds can be selected to optimize comfort levels.	7 steps	7 steps	7 steps	7 steps	7 steps	7 steps	7 steps	✕
	Auto fan speed	Automatically controls fan speed depending on indoor load for maximum comfort and efficiency	●	●	●	●	●	●	●	7 steps
	Individual louver control	All louvers can be independently controlled via the wired remote controller, letting you create a highly-customized airflow direction to accommodate unique room conditions.	✕	✕	✕	●	●	✕	✕	●
	Soft wind mode	Directs airflow toward the ceiling to create a windless environment.	●	●	●	●	●	✕	✕	✕
	Adaptive ESP	ESP adapts to duct resistance to ensure constant airflow.	✕	✕	✕	✕	✕	●	●	✕
										●
ENERGY SAVING	META mode	Triple variable control maximizes comfort and energy efficiency.	●	●	●	●	●	●	●	
	ECO mode	Energy-saving feature automatically raises temperature by 1°C per hour (in cooling mode) or decrease by 1°C per hour (in heating mode), with a maximum change of 2°C.	●	●	●	●	●	●	●	✕
	Full DC electronic components	Fan motor and water pump operate on full DC power, improving efficiency and saving energy.	●	●	●	●	●	●	●	●
	Human Detect Sensor	Using a millimeter-wave radar sensor, the unit senses the presence or absence of people in the room and will automatically adjust the temperature accordingly to ensure comfort while saving energy.	✕	✕	✕	○	○	○(1)	○(1)	●
										○(1)
EASY Installation & Service	Easy software updates (2)	All indoor unit software can be updated by accessing its corresponding outdoor unit, providing added convenience.	●	●	●	●	●	●	●	
	Extended Distance Air Delivery	Provides adequate airflow even in spaces with high ceilings.	✕	✕	✕	● 3.5m	● 3m ○ 4.5m	✕	✕	●
	High-lift drain pump	Enables efficient drainage of condensation from the indoor unit.	●	●	●	●	●	●	●	✕
	Water-level switch	When the drain pipe is blocked or in poor condition, the water-level switch turns off automatically preventing any overflow and potential ceiling damage witch.	●	●	●	●	●	●	●	●
	Ceiling anti-dirt setting	A specially-designed air discharge directs airflow away from the ceiling, preventing ceiling dirty.	●	●	●	●	●	✕	✕	●
	Air baffle flttings for irregular rooms	Air baffle fittings can be used to block specific discharge ports, optimizing airflow in others, providing customized airflow for irregularly-shaped rooms.	✕	✕	✕	●	●	✕	✕	✕
	2-core non-polarity communication wiring	Simplifies installation and reduces wiring failures.	●	●	●	●	●	●	●	✕
	Extended communication wiring	1200m maximum communication wiring length makes installation more flexible.	●	●	●	●	●	●	●	●
	3 digit, 7-segment display	3 digit, 7-segment display can display more parameters and error informa-tion.	●	●	●	●	●	●(5)	●(5)	●
	Detailed error codes	Improves maintenance efficiency by providing highly-detailed error code.	●	●	●	●	●	●	●	●(5)

● standard feature O customization option X function not available

*Note:
1. Use the display box which is equipped with a human detect sensor.
2. Software update function requires Bluetooth module or data cloud gateway sold separately.
3. Only when the unit is installed on the ceiling.
4. To achieve these functions for the One-Way Cassette unit, you need to purchase function expansion modules and install them
5. Air duct units need customized display box.

Indoor Unit Features

	Features		One-Way Cassette	New One-Way Cassette	Two-Way Cassette	Compact Four-Way Cassette	Four-Way Cassette	Slim Duct	Medium Static Pressure Duct	High Static Pressure Duct
EASY CONTROL	Timer	Convenient timer can be programmed for daily or weekly operation.	●	●	●	●	●	●	●	●
	Wired remote control	Wired remote control to remotely control your indoor unit.	●	●	●	●	●	●	●	●
	Group control	Up to 16 indoor units can be in a group control system	●	●	●	●	●	●	●	●
	Centralized control	Control several indoor units from a single controller.	●	●	●	●	●	●	●	●
	Auto-restart	After a power failure, the unit will automatically resume operation with all previous settings restored.	●	●	●	●	●	●	●	●
	°C/°F setting	Units can be displayed at ºC or ºF depending on user preference.	●	●	●	●	●	●	●	●
	Long-distance on/off function	Lets you remotely turn the unit on or off from a distance using weak electricity external devices.	●	●	●	●	●	●	●	●
EXTENDED FUNCTIONS	Humidifler connection	Enables third-party humidifier connection with optional expansion board.	✕	✕	✕	○	○	○	○	○
	Dehumidifler connection	Enables third-party dehumidifier connectivity with optional expansion board.	✕	✕	✕	○	○	○	○	○
	Electric heater connection	Enables third-party electric heater connection with optional expansion board.	○[4]	○[4]	✕	○	○	○	○	○
	Refrigerant leak sensor connection	Enables refrigerant-leak sensor connection with optional expansion board.	○[4]	○[4]	✕	○	○	○	○	○
	CO2 sensor connection	Additional expansion board can achieve CO2 sensor connection	○[4]	○[4]	✕	○	○	○	○	○
	PM2.5 sensor connection	Enables PM2.5 sensor connection with optional expansion board.	○[4]	○[4]	✕	○	○	○	○	○
	Third-party controller connection	A third-party controller can be used to control mode, fan speed and temperature settings.	○[4]	○[4]	✕	○	○	○	○	○
	Long-distance on/off function	Long-distance startup or shutoff the system by strong electricity external devices	○[4]	○[4]	✕	○	○	○	○	○
	Long-distance alarm function	Long-distance alarm when an error occurs	○[4]	○[4]	✕	○	○	○	○	○
	Multiple protections	Multiple protections ensure stable, reliable operation.	●	●	●	●	●	●	●	●

*Note:
1. Use the display box which is equipped with a human detect sensor.
2. Software update function requires Bluetooth module or data cloud gateway sold separately.
3. Only when the unit is installed on the ceiling.
4. To achieve these functions for the One-Way Cassette unit, you need to purchase function expansion modules and install them

● standard feature O customization option X function not available

Indoor Unit Features

COMFORT & HEALTH

Features		Wall-Mounted Units	Floor-Standing Units	Ceiling& Floor Units	Small Airflow Rate Fresh Air Processing	Fresh Air Processing	Free Standing Side Discharge Type	Free Standing Top Discharge Type
Quiet operation	All indoor units offer quiet operation for a tranquil indoor comfort experience.	●	●	●	×	×	●	●
Auto cooling/heating changeover	Automatically switches between cooling and heating modes as needed to efficiently reach the set temperature	●	●	●	●	●	●	●
Cold air prevention	During the warm-up phase, fan speed is limited to prevent cold-air discharge, with normal operation resuming afterward	●	●	●	●	●	●	●
Digital display on/off	Indoor unit displays can be deactivated at night, creating a darker environment for sleeping	●	●	●	●	●	●	●
Alert beep	Indoor unit alert beeps can be deactivated to prevent any unwanted disturbance	●	●	●	●	●	●	●
EEV automatic adjustment	When in heating standby mode, the indoor unit automatically adjusts the EEV opening in response to the load which eliminates potential noise generated by flowing refrigerant	●	●	●	●	●	●	●
Indoor temperature detection control	Users can control the entire system from a single designated indoor unit, streamlining operation and reducing complexity.	●	●	●	×	×	●	●
0.5°C/1°C increment temperature adjustment	Set temperature can be adjusted in 0.5°C or 1°C increments, enabling precise comfort control.	●	●	●	●	●	●	●
Home leave mode	During a prolonged absence, the indoor temperature is maintained at an energy-saving level.	●	●	●	×	×	●	●
Independent power supply	Allows individual units to be shut down for repair or maintenance while other units continue to operate normally.	●	●	●	●	●	●	●
Sleep mode	Gradually raises the temperature throughout the night (during cooling operation) to promote better sleep while saving energy.	●	●	●	×	×	●	●
Heat exchanger mildew prevention	Fan will continue running after unit shuts off to dry out any lingering moisture, preventing mildew from forming on the heat exchanger.	●	●	●	×	×	●	●
Air filter	Removes airborne dust particles to ensure a steady supply of clean air while preventing mildew from forming on the heat exchanger.	pre-filter ●	G1 ●	pre-filter ●	pre-filter ● F7 ○ H13 ○	pre-filter ● F7 ○ H13 ○	pre-filter ● F7 ○ H13 ○	pre-filter ● F7 ○ H13 ○
Fresh air intake	A dedicated outside air intake port brings fresh outdoor air inside.	×	×	●	●	●	×	×
Air filter monitoring	Monitors air flow resistance in real time and displays the level of filter blockage on the controller.	×	×	×	●	●	×	●
Silver-ion-coated drain pan	Keeps the drain pan mold free with the slow release of silver ions.	○	×	×	○	○	○	○
Heat exchanger self-cleaning function*	Multi-step process automatically cleans the heat exchanger via frosting following by high-temperature sterilization.	●	●	●	×	×	×	×
Humidity control	Additional humidity sensor can achieve humidity control in 35~75%	○	○	○	×	×	○	○
Sterilization module	Positive and negative ion sterilization module effectively kills bacteria and viruses while removing odors from indoor air.	×	×	×	×	×	×	×

* Heat exchanger self-cleaning function is only available when the 3rd Generation DC Series Mini is connected, and no AHU Kits, Fresh Air Processing Units or 2nd generation indoor units are connected to the system.

● standard feature　O customization option　X function not available

Indoor Unit Features

	Features		Wall-Mounted Units	Floor-Standing Units	Ceiling& Floor Units	Small Airflow Rate Fresh Air Processing	Fresh Air Processing	Free Standing Side Discharge Type	Free Standing Top Discharge Type
AIR FLOW	Vertical swing	Automatic louver vertical-swing feature uniformly distributes airflow for more consistent temperature control	5 steps + auto	✕	5 steps + auto	✕	✕	✕	✕
	Horizontal swing	Automatic louver horizontal swing feature uniformly distributes airflow for more consistent temperature control.	○	✕	●	✕	✕	5 steps + auto	✕
	Multiple fan speeds	Multiple fan speeds can be selected to optimize comfort levels.	7 steps	7 steps	7 steps	7 steps	7 steps	7 steps	7 steps
	Auto fan speed	Automatically controls fan speed depending on indoor load for maximum comfort and efficiency	●	✕	●	✕	✕	●	●
	Individual louver control	All louvers can be independently controlled via the wired remote controller, letting you create a highly-customized airflow direction to accommodate unique room conditions.	✕	✕	✕	✕	✕	✕	✕
	Soft wind mode	Directs airflow toward the ceiling to create a windless environment.	●	✕	●	✕	✕	✕	✕
	Adaptive ESP	ESP adapts to duct resistance to ensure constant airflow.	✕	✕	✕	●	●	✕	●
ENERGY SAVING	CETA mode	Triple variable control maximizes comfort and energy efficiency.	●	●	●	✕	✕	✕	✕
	ECO mode	Energy-saving feature automatically raises temperature by 1°C per hour (in cooling mode) or decrease by 1°C per hour (in heating mode), with a maximum change of 2°C.	●	●	●	✕	✕	●	●
	Full DC electronic components	Fan motor and water pump operate on full DC power, improving efficiency and saving energy.	●	●	●	●	●	●	●
	Human Detect Sensor	Using a millimeter-wave radar sensor, the unit senses the presence or absence of people in the room and will automatically adjust the temperature accordingly to ensure comfort while saving energy.	○	✕	✕	✕	✕	○(1)	○(1)
EASY Installation & Service	Easy software updates(2)	All indoor unit software can be updated by accessing its corresponding outdoor unit, providing added convenience.	●	●	●	●	●	●	●
	Extended Distance Air Delivery	Provides adequate airflow even in spaces with high ceilings.	✕	✕	✕	✕	✕	✕	✕
	High-lift drain pump	Enables efficient drainage of condensation from the indoor unit.	○	✕	○(3)	●	●	○	○
	Water-level switch	When the drain pipe is blocked or in poor condition, the water-level switch turns off automatically preventing any overflow and potential ceiling damage witch.	○	✕	○	●	●	●	●
	Ceiling anti-dirt setting	A specially-designed air discharge directs airflow away from the ceiling, preventing ceiling dirty.	✕	✕	✕	✕	✕	✕	✕
	Air baffle flttings for irregular rooms	Air baffle fittings can be used to block specific discharge ports, optimizing airflow in others, providing customized airflow for irregularly-shaped rooms.	✕	✕	✕	✕	✕	✕	✕
	2-core non-polarity communication wiring	Simplifies installation and reduces wiring failures.	●	●	●	●	●	●	●
	Extended communication wiring	1200m maximum communication wiring length makes installation more flexible.	●	●	●	●	●	●	●
	3 digit, 7-segment display	3 digit, 7-segment display can display more parameters and error information.	●	●(5)	●	●(5)	●(5)	●	●
	Detailed error codes	Improves maintenance efficiency by providing highly-detailed error code.	●	●	●	●	●	●	●

*Note:
1. Use the display box which is equipped with a human detect sensor.
2. Software update function requires Bluetooth module or data cloud gateway sold separately.
3. Only when the unit is installed on the ceiling.
4. To achieve these functions for the One-Way Cassette unit, you need to purchase function expansion modules and install them
5. Air duct units need customized display box.

● standard feature　O customization option　X function not available

Indoor Unit Features

	Features		Wall-Mounted Units	Floor-Standing Units	Ceiling& Floor Units	Small Airflow Rate Fresh Air Processing	Fresh Air Processing	Free Standing Side Discharge Type	Free Standing Top Discharge Type
EASY CONTROL	Timer	Convenient timer can be programmed for daily or weekly operation.	●	●	●	●	●	●	●
	Wired remote control	Wired remote control to remotely control your indoor unit.	●	●	●	●	●	●	●
	Group control	Up to 16 indoor units can be in a group control system	●	●	●	●	●	●	●
	Centralized control	Control several indoor units from a single controller.	●	●	●	●	●	●	●
	Auto-restart	After a power failure, the unit will automatically resume operation with all previous settings restored.	●	●	●	●	●	●	●
	°C/°F setting	Units can be displayed at °C or °F depending on user preference.	●	●	●	●	●	●	●
	Long-distance on/off function	Lets you remotely turn the unit on or off from a distance using weak electricity external devices.	●	●	●	●	●	●	●
EXTENDED FUNCTIONS	Humidifler connection	Enables third-party humidifier connection with optional expansion board.	○	○	○	✕	✕	○	○
	Dehumidifler connection	Enables third-party dehumidifier connectivity with optional expansion board.	○	○	○	✕	✕	○	○
	Electric heater connection	Enables third-party electric heater connection with optional expansion board.	○	○	○	○	○	○	○
	Refrigerant leak sensor connection	Enables refrigerant-leak sensor connection with optional expansion board.	○	○	○	○	○	○	○
	CO2 sensor connection	Additional expansion board can achieve CO2 sensor connection	○	○	○	○	○	○	○
	PM2.5 sensor connection	Enables PM2.5 sensor connection with optional expansion board.	○	○	○	○	○	○	○
	Third-party controller connection	A third-party controller can be used to control mode, fan speed and temperature settings.	○	○	○	○	○	○	○
	Long-distance on/off function	Long-distance startup or shutoff the system by strong electricity external devices	○	○	○	○	○	○	○
	Long-distance alarm function	Long-distance alarm when an error occurs	○	○	○	○	○	○	○
	Multiple protections	Multiple protections ensure stable, reliable operation.	●	●	●	●	●	●	●

*Note:
1. Use the display box which is equipped with a human detect sensor.
2. Software update function requires Bluetooth module or data cloud gateway sold separately.
3. Only when the unit is installed on the ceiling.
4. To achieve these functions for the One-Way Cassette unit, you need to purchase function expansion modules and install them

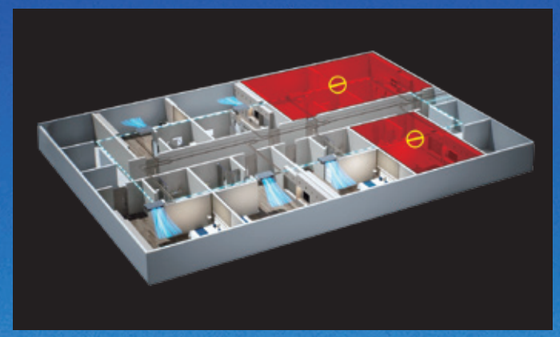
● standard feature　O customization option　X function not available

SmartLink

Communication distance up to **2000M**

Independent Power Supply

Some indoor units shut down without shutting down the whole VRF system.

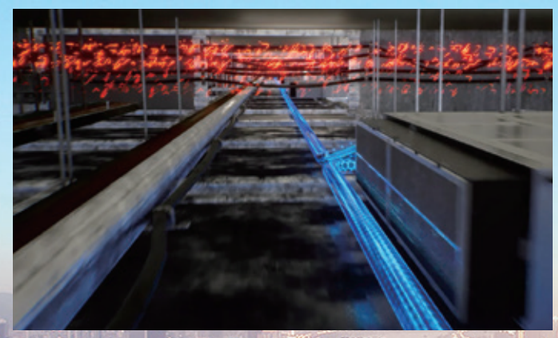


Any Topology Communication

The communication wire supports tree connection, star connection, ring connection and so on.

Super Anti-interference Capability

Special waveform restoration technology enhances anti-interference performance for more stable communication.



Frosting

Frost makes the surface of heat exchanger dirt stripping

Defrosting

Water flow flushes dirt from heat exchanger

Drying

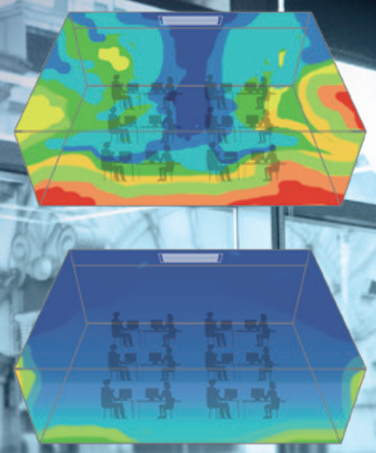
55˚C high temperature drying water, effective sterilization

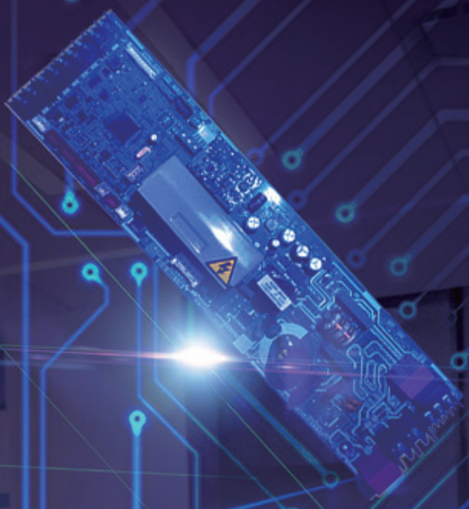
HEAT EXCHANGER SELF-CLEANING*

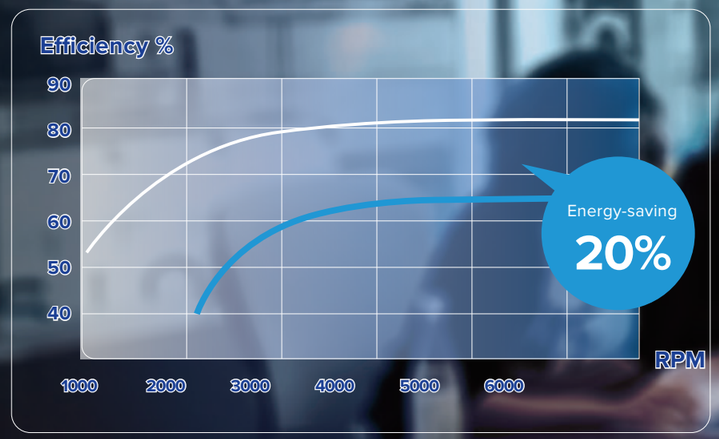
* Heat exchanger self-cleaning function can be available only when Super Y Mini is connected.

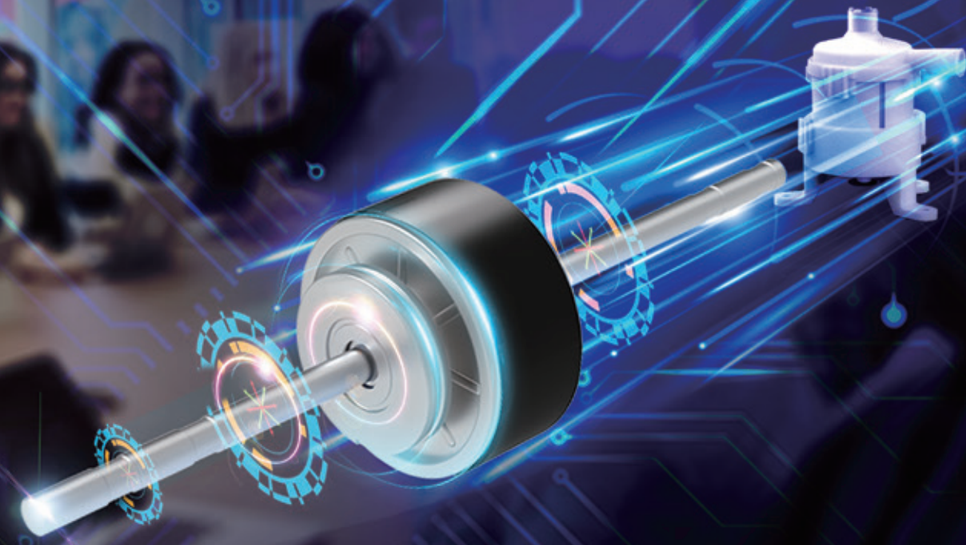
Full DC Electronic Components

The fan motor and water pump are DC power supply, making the temperature control more precise and the indoor temperature more uniform.









Optional Multi-Functional Expansion Board

Humidity control

Electric heater connection

Multiple protections

Long-distance on/off function

Long-distance alarm function

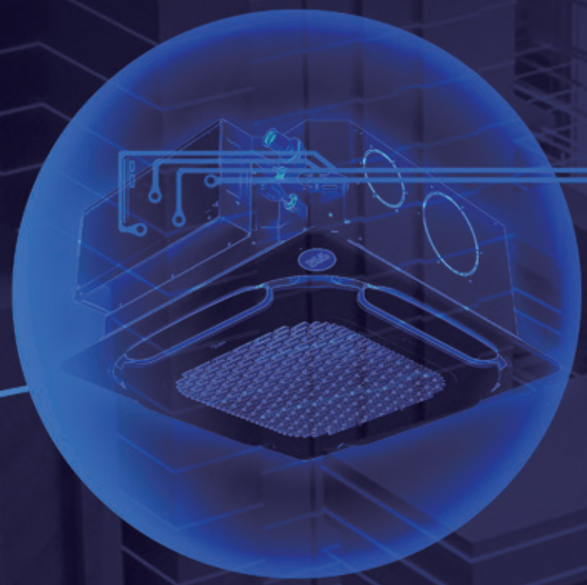
Humidifier/ Dehumidifier connection

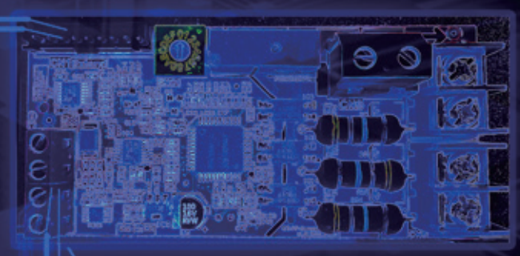
Third-party controller connection

CO_2 sensor connection

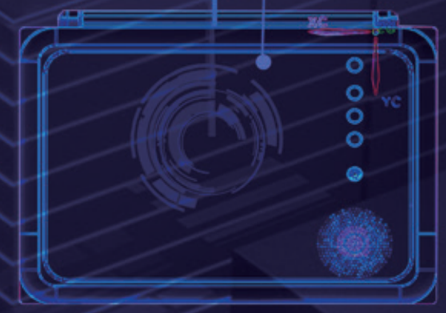
PM2.5 sensor connection

Refrigerant leak sensor connection



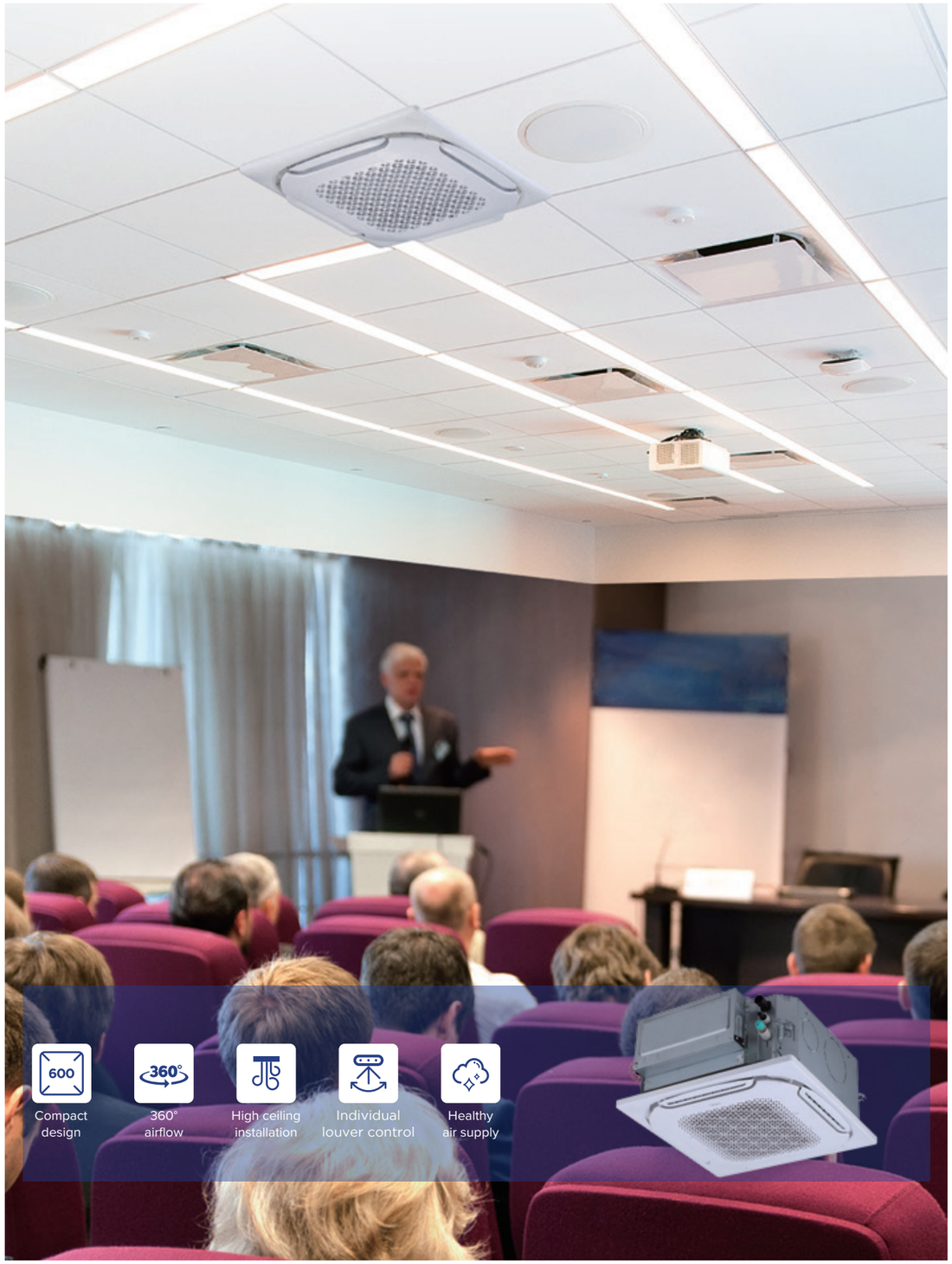


Switch Module
(Customized)



Expansion Board
(Customized)

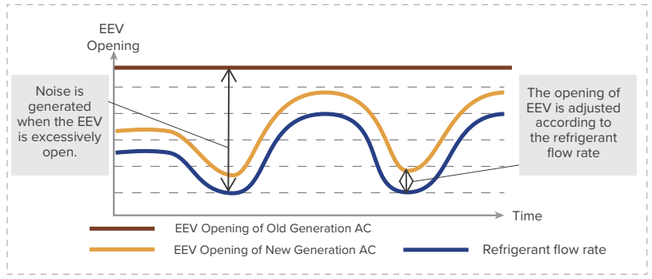
Compact Four-Way Cassette



COMFORT

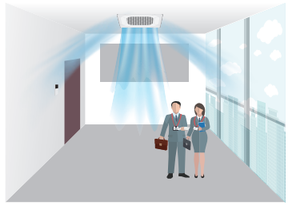
EEV automatic adjustment

When in heating standby mode, the indoor unit automatically adjusts the EEV opening according to the load to eliminate noise of refrigerant flowing.



Human Detect Sensor*

Using millimeter-wave radar sensor controller automatically turns indoor units on or off upon detecting that the room is occupied or unoccupied, ensuring climate control whilst minimizing energy consumption.



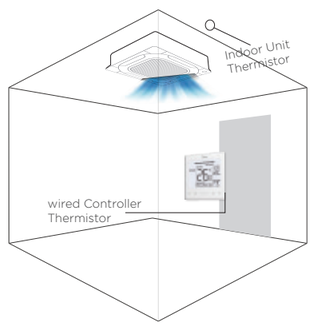
The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

*This function is available as a customization option for Four Way Cassette.

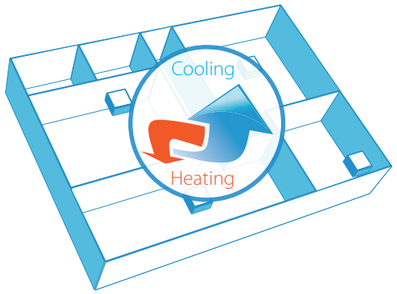
Two thermistors control

The indoor temperature can be checked using the thermistor in the wired controller as well as from the indoor unit



Auto Cooling-heating Changeover

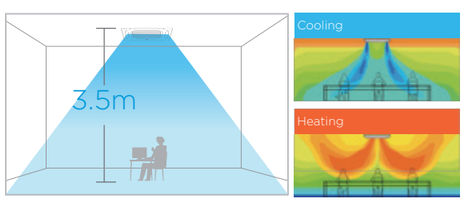
Automatically selects cooling or heating mode to achieve the set temperature.



AIR FLOW

Long Distance Air Delivery

The Compact Four-way Cassette has an additional 30Pa static pressure for long airflow delivery and is capable of being used in spaces up to 3.5m in floor height.



Soft Wind Mode

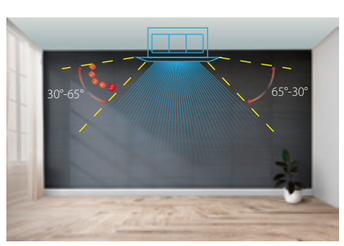
Supplies air against the ceiling to create windless environment. Slow-released nano-silver ions can keep the drain pan free of mold for a long time.

7 Fan Speeds

7 indoor fan speed options to meet the needs of different indoor conditions.

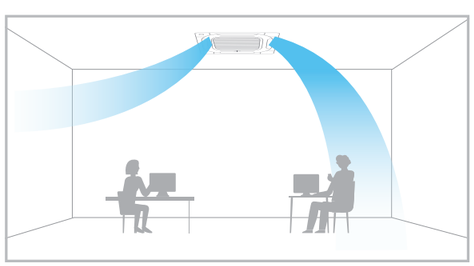
Multiple Steps Vertical Swing

The Four-way Cassette unit has a wide range of airflow angles from 30° to 65° and is equipped with a 5-step louver control and auto swing mode to better meet the needs of different customers.



Individual Louver Control

The Individual louver control can control the motors separately, making it possible to control all four louvers independently.



360° Airflow

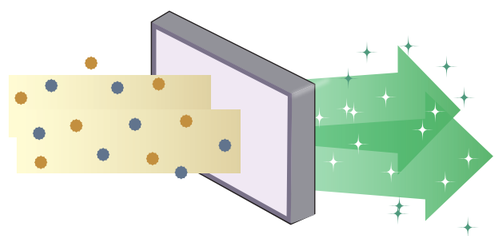
New design, round airflow path ensures uniform airflow and temperature distribution.

The continuous air supply port air supply area increases by 20%

HEALTH

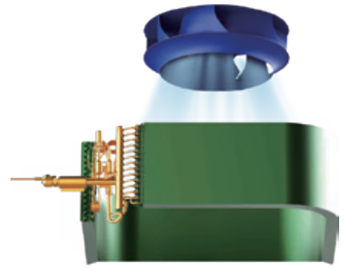
Optional F6-class Air Filter

The Compact Four-way Cassette supports 30Pa external static pressure for the F6-class filter installation. Filtering effect of the F6-class filter reaches up to 80% against particles (particle size > 1μm), creating a cleaner living environment.



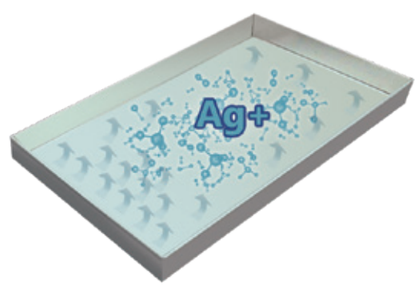
Mildew proof of heat exchanger

When the indoor unit is turned off in cooling mode, the fan is still on, and dry the heat exchanger to avoid mold on the heat exchanger.



Silver Ions drain pan (optional)

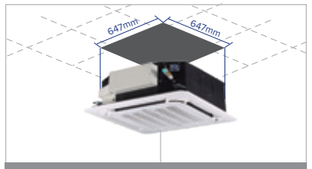
Slow-released nano-silver ions can keep the drain pan free of mold for a long time.



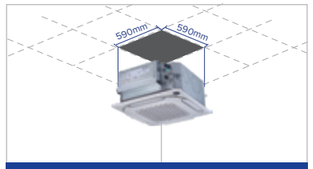
EASY INSTALLATION

Compact and stylish design

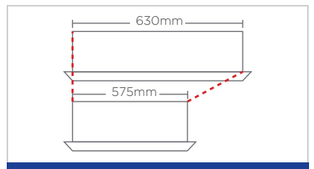
New Compact Four-way Cassette panel size is fit into the ceiling tile(620mm×620mm), making installation easier.



Cut ceiling tile to install



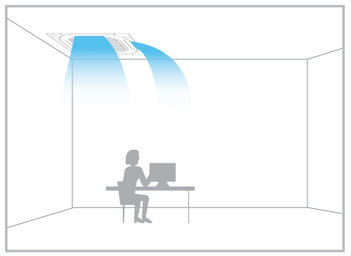
Pull out an gusset plate to install



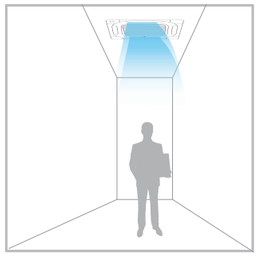
Reduced by 55mm

Air baffle fittings for irregular rooms

Some air discharge ports can be blocked with air baffle to optimize air distribution in irregular shaped rooms. Air outlets can be blocked with accessories, which can be found in the packing material.



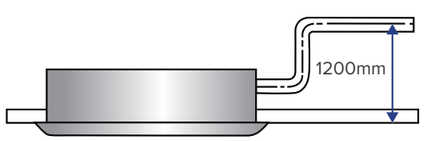
At the corner



In the narrow room

High-lift drain pump*

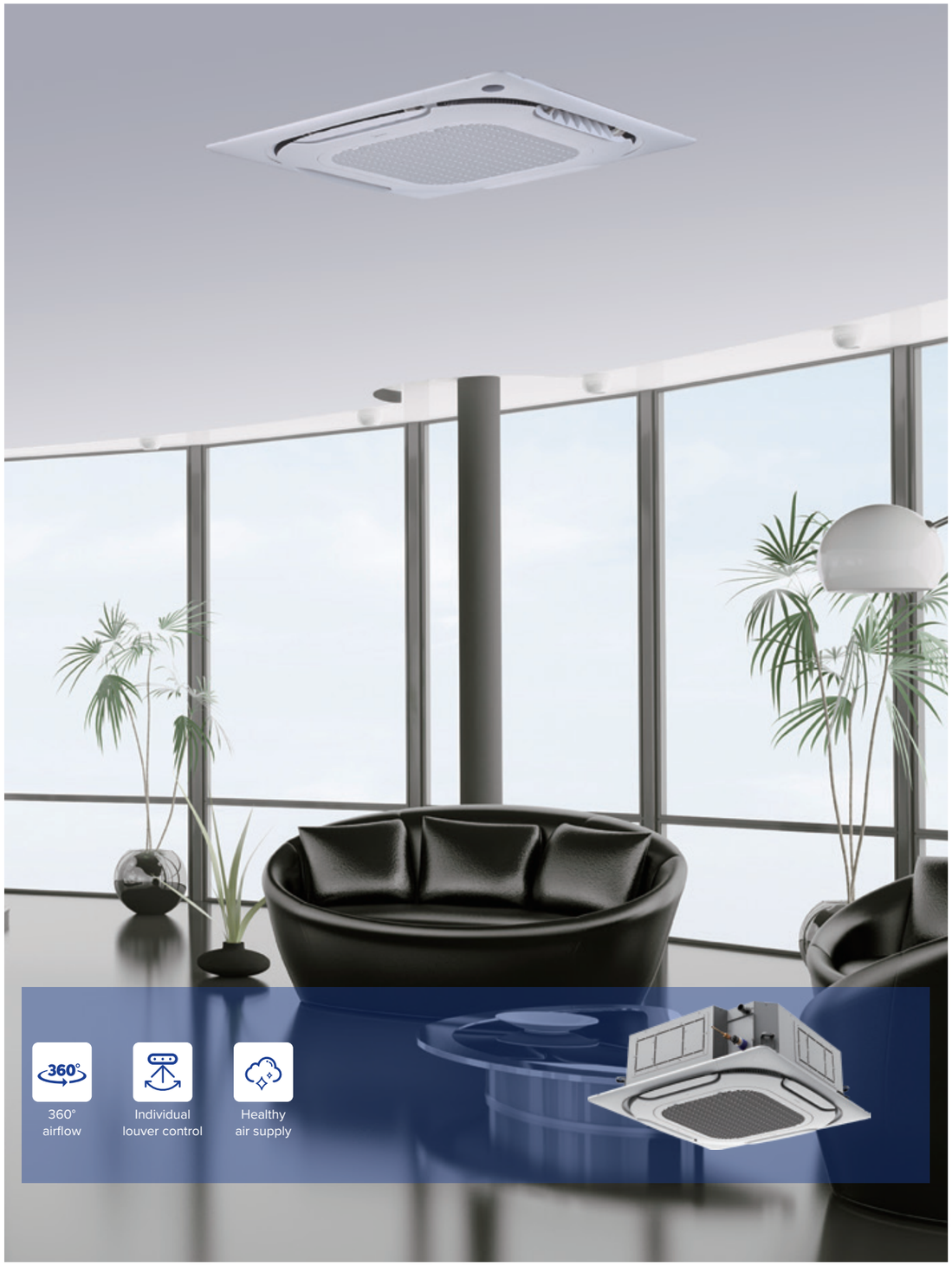
A drain pump with a 1200mm raise height is fitted as a ustomization option, simplifying installation of the drain piping.



Water level switch

When the drain pipe is blocked or the drain pipe is poor, the water level switch is turned off, and there is no need to worry about overflowing the ceiling.

Four-Way Cassette



COMFORT

Human Detect Sensor*

Using millimeter-wave radar sensor controller automatically turns indoor units on or off upon detecting that the room is occupied or unoccupied, ensuring climate control whilst minimizing energy consumption.

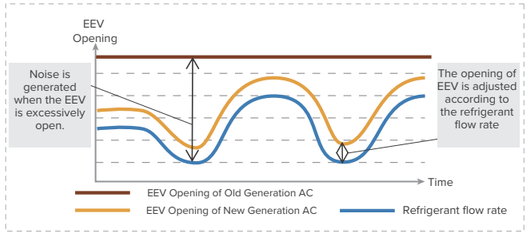
The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

*This function is available as a customization option for Super Y Four Way Cassette.

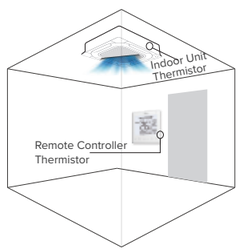
EEV automatic adjustment

When in heating standby mode, the indoor unit automatically adjusts the EEV opening according to the load to eliminate noise of refrigerant flowing.



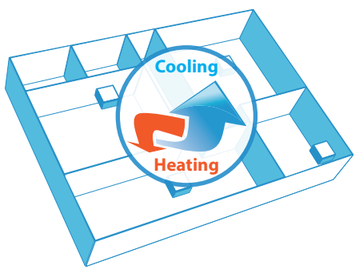
Two thermistors control

The indoor temperature can be checked using the thermistor in the remote controller as well as from the indoor unit



Auto Cooling-heating Changeover

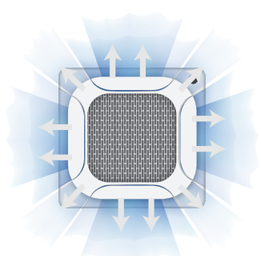
Automatically selects cooling or heating mode to achieve the set temperature.



AIR FLOW

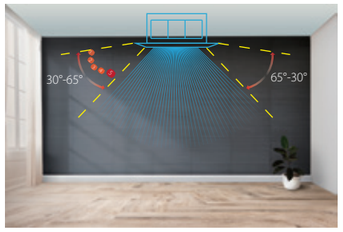
360° Airflow

New design, round airflow path ensures uniform airflow and temperature distribution.



Multiple Steps Vertical Swing

The Four-way Cassette unit has a wide range of airflow angles from 30° to 65° and is equipped with a 5-step louver control and auto swing mode to better meet the needs of different customers.

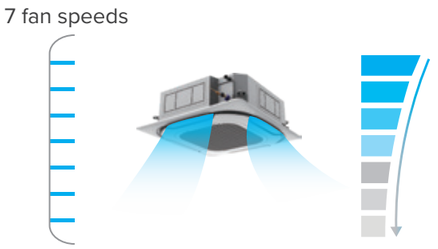


Soft Wind Mode

Supplies air against the ceiling to create windless environment. Slow-released nano-silver ions can keep the drain pan free of mold for a long time.

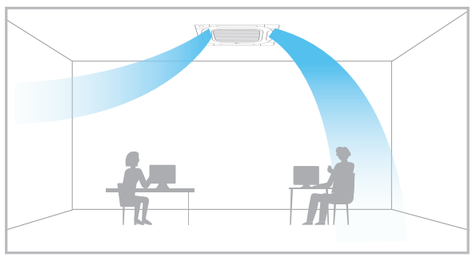
7 Fan Speeds

7 indoor fan speed options to meet the needs of different indoor conditions.



Individual Louver Control

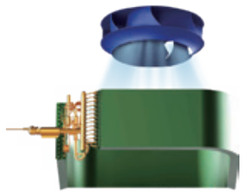
The Individual louver control can control the motors separately, making it possible to control all four louvers independently.



HEALTH

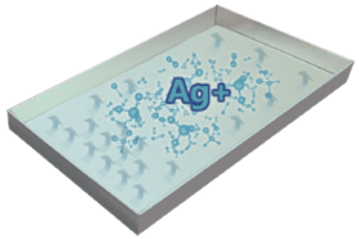
Mildew proof of heat exchanger

When the indoor unit is turned off in cooling mode, the fan is still on, and dry the heat exchanger to avoid mold on the heat exchanger.



Silver Ions drain pan (optional)

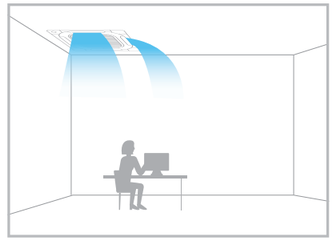
Slow-released nano-silver ions can keep the drain pan free of mold for a long time.



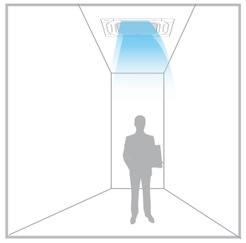
EASY INSTALLATION

Air baffle fittings for irregular rooms

Some air discharge ports can be blocked with air baffle to optimize air distribution in irregular shaped rooms. Air outlets can be blocked with accessories, which can be found in the packing material.



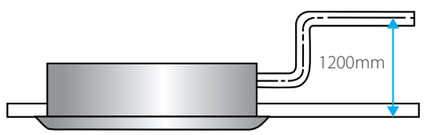
At the corner



In the narrow room

Two thermistors control

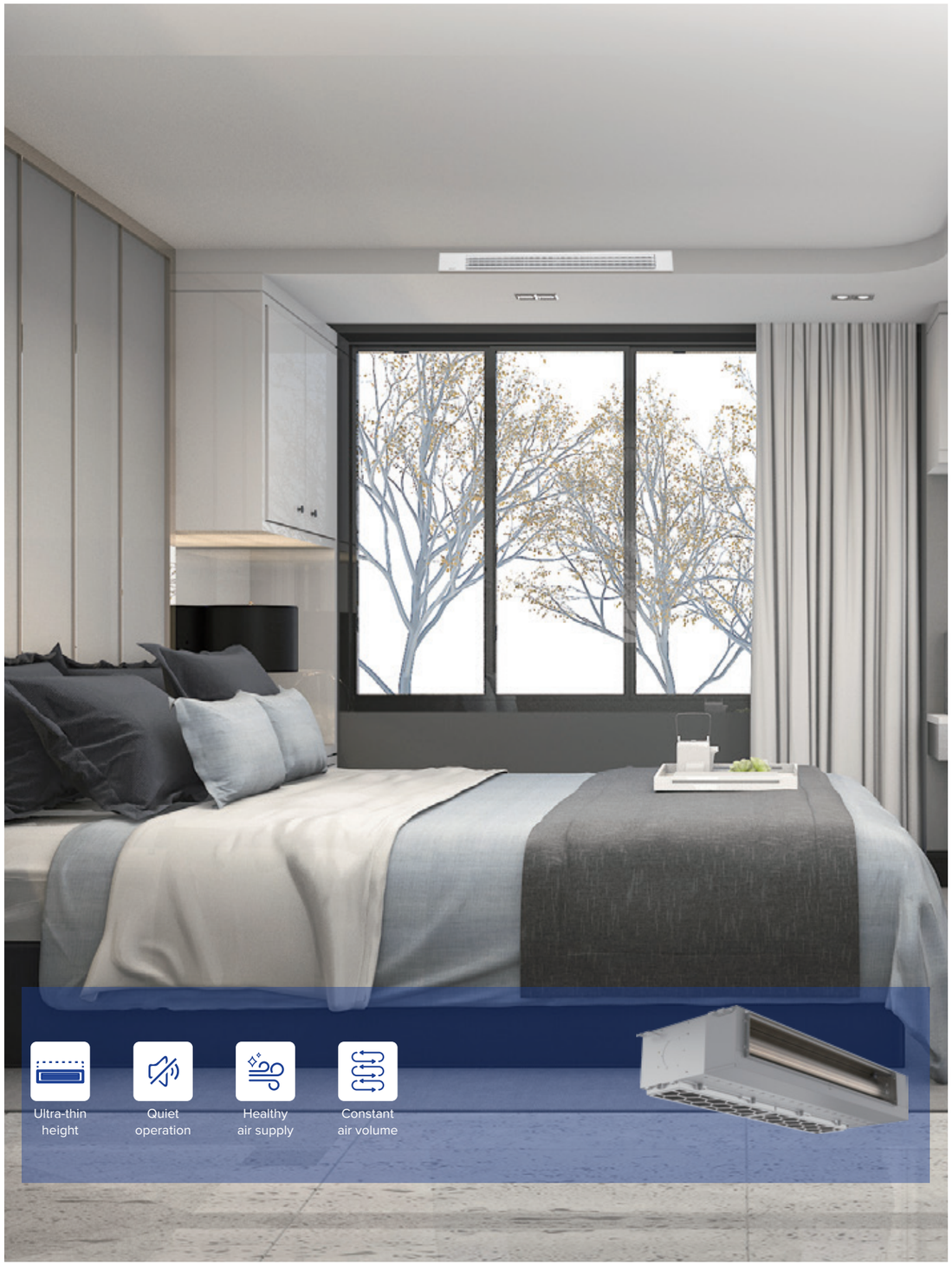
The indoor temperature can be checked using the thermistor in the wired controller as well as from the indoor unit



Water level switch

When the drain pipe is blocked or the drain pipe is poor, the water level switch is turned off, and there is no need to worry about overflowing the ceiling.

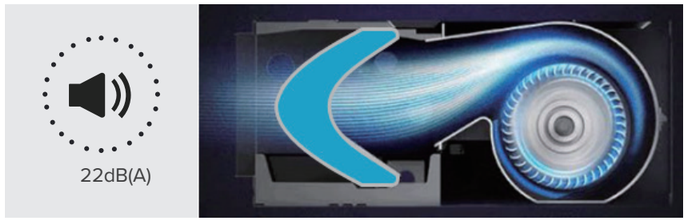
Slim Duct



COMFORT

Quiet Operation

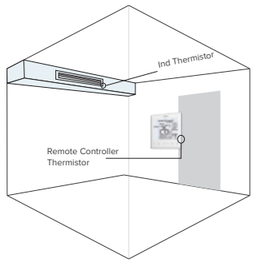
By optimizing the design of fan motor, air duct and heat exchanger, the new duct operates with noise as low as 22dB(A), creating a quieter and more comfortable environment.



- Fan motor noise reduction
- Air duct noise reduction
- Heat exchanger noise reduction

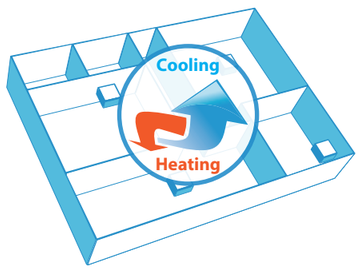
Two thermistors control

The indoor temperature can be checked using the thermistor in the remote controller as well as from the indoor unit



Auto Cooling-heating Changeover

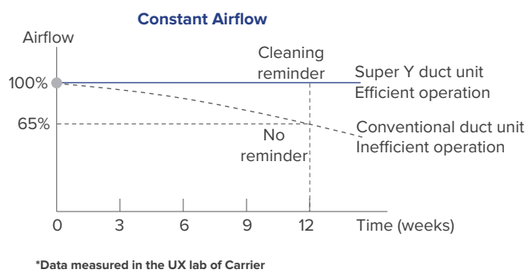
Automatically selects cooling or heating mode to achieve the set temperature.



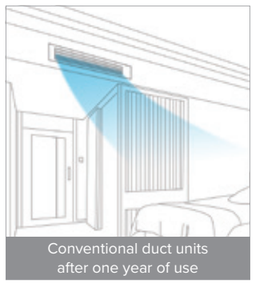
AIR FLOW

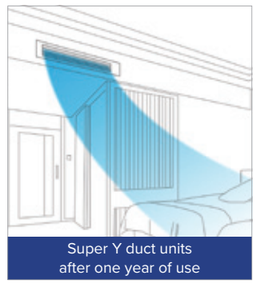
Constant Airflow

Constant airflow technology can realize the airflow output is not affected by installation conditions and use conditions, ensuring the constant airflow supply.



*Data measured in the UX lab of Carrier

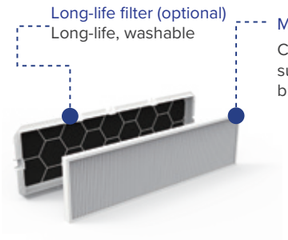

Conventional duct units after one year of use


Super Y duct units after one year of use

HEALTH

Healthy Air Supply

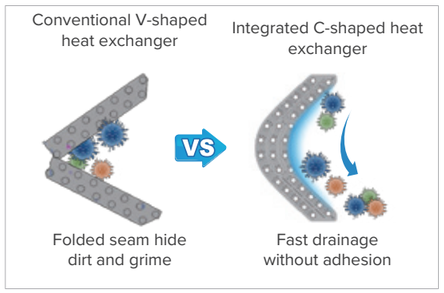
The Slim Duct unit adopts an integrated C-shaped heat exchanger that allows for fast drainage and no dust or ash accumulation. The optional long-life filter, medium-life filter and plasma sterilization module further enhance the air quality of the air supply and create a healthy environment.



Long-life filter (optional)
Long-life, washable

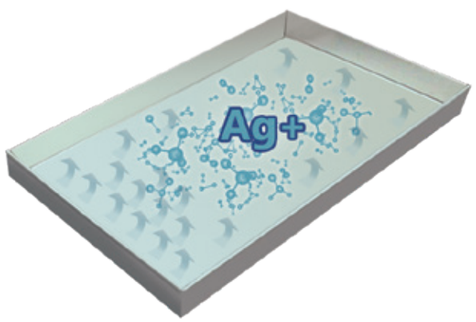
Medium efficiency filter (optional)
Class F6 filter, filters 1~5μm suspended particles, effectively blocking PM2.5

Integrated C-shaped heat exchanger (standard)
Quick discharge of dirt, no accumulation of dust or ash.



Silver Ions drain pan (optional)

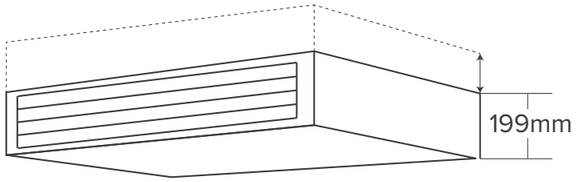
Slow-released nano-silver ions can keep the drain pan free of mold for a long time.



EASY INSTALLATION

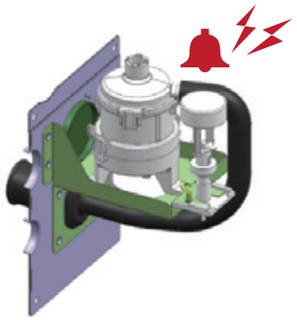
Ultra-thin Body

Ultra-thin body design, the body height of the whole series is only 199mm, greatly saving space and more flexible installation.



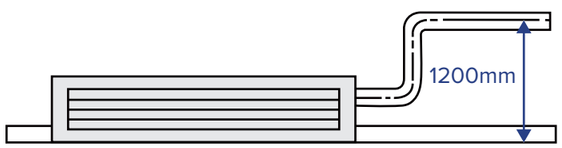
Fault Feedback

Early warning of drain pump fault

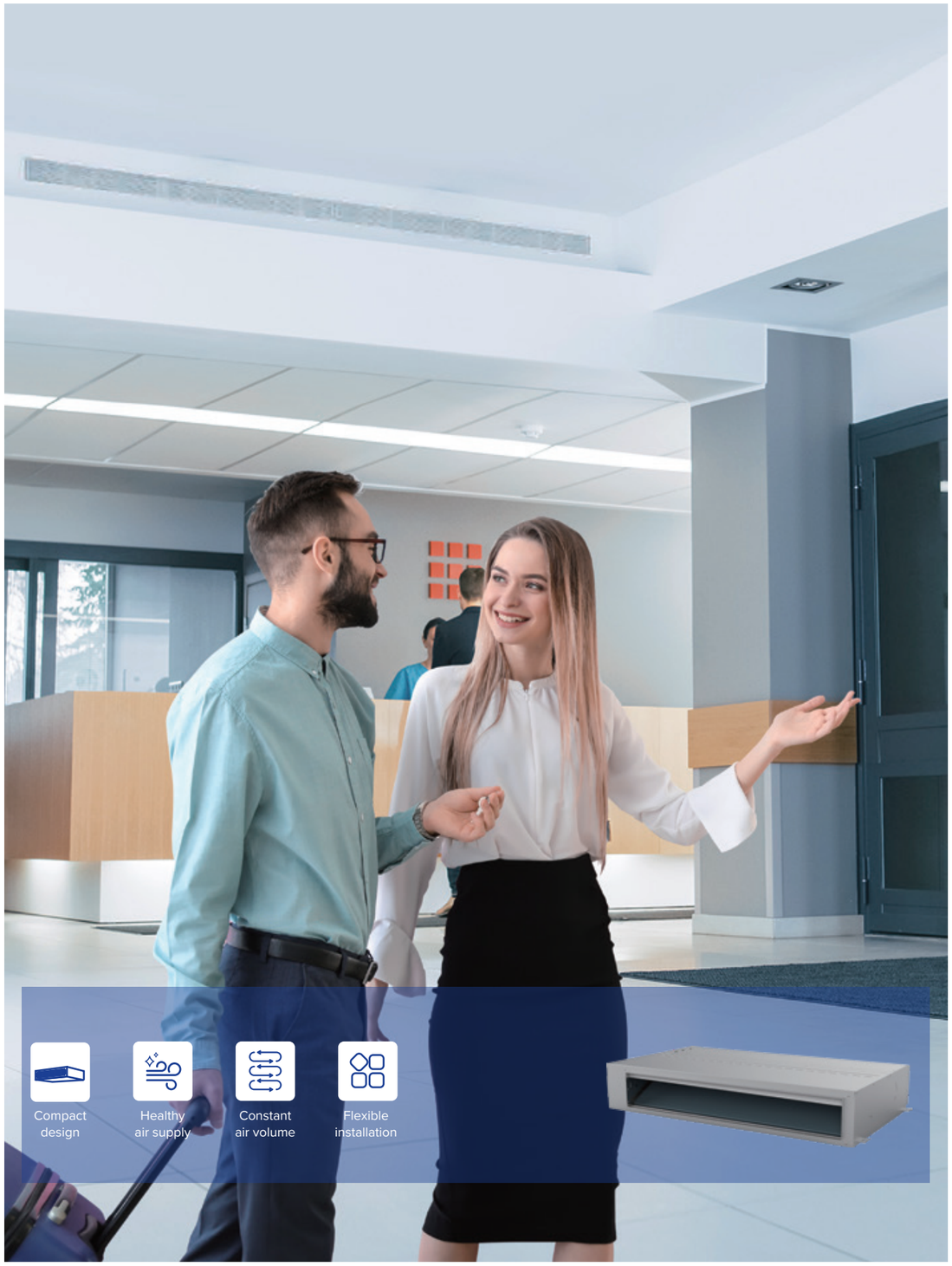


High-lift drain pump*

A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.



Medium Static Pressure Duct



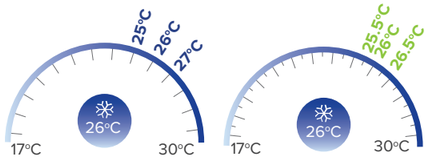
COMFORT

Quiet Operation

By optimizing the design of fan motor, air duct and heat exchanger, the new duct operates with noise as low as 22dB(A), creating a quieter and more comfortable environment.

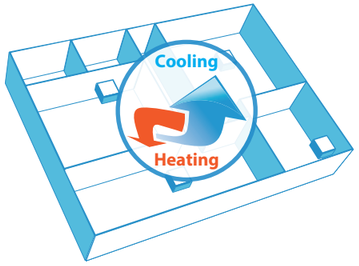
0.5°C/1°C Setting Temperature Adjustment

Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.



Auto Cooling-heating Changeover

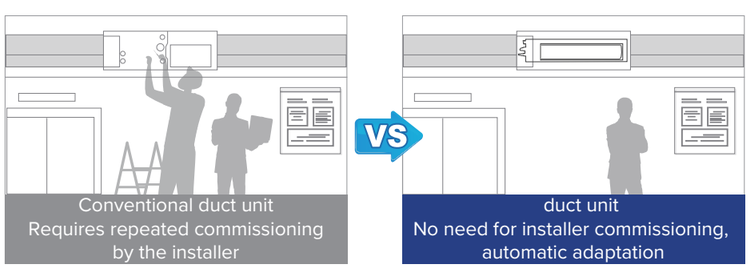
Automatically selects cooling or heating mode to achieve the set temperature.



AIR FLOW

Adaptive Duct Length and Filter Resistance

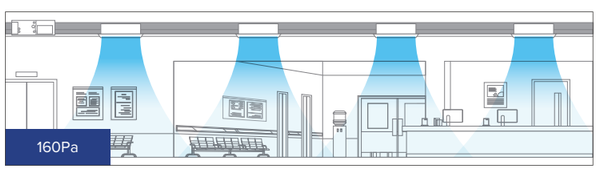
By digital fan motor and a specially designed independent drive chip enables precise control and output on demand. It can automatically adapt to duct lengths from 10 to 160 Pa equivalent static pressure without intervention from the installer.

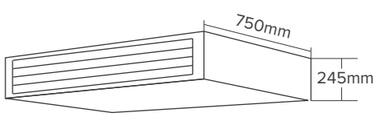


EASY INSTALLATION

Thin Body with High ESP

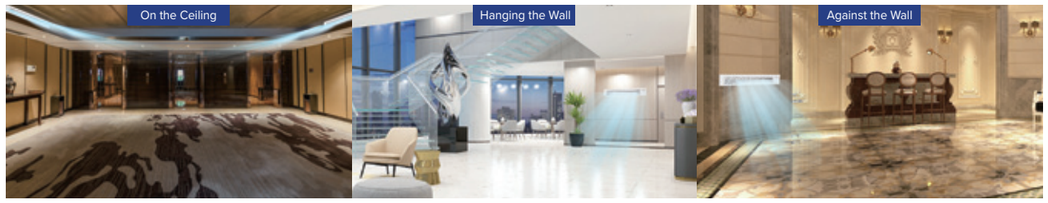
All models have a static pressure of 160 Pa and a thickness of only 245 mm. The high static pressure allows air to be delivered over longer distances without loss of cooling and heating effect. Especially suitable for long and narrow spaces.





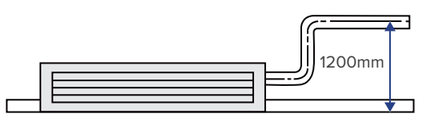
3 Way flexible installation

It is possible to install and connect the outdoor unit in 3 different ways for Duct, providing flexibility to accommodate a wide range of room designs.



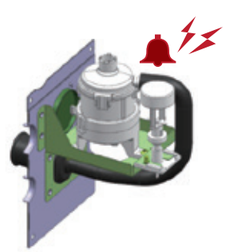
High-lift drain pump

A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.

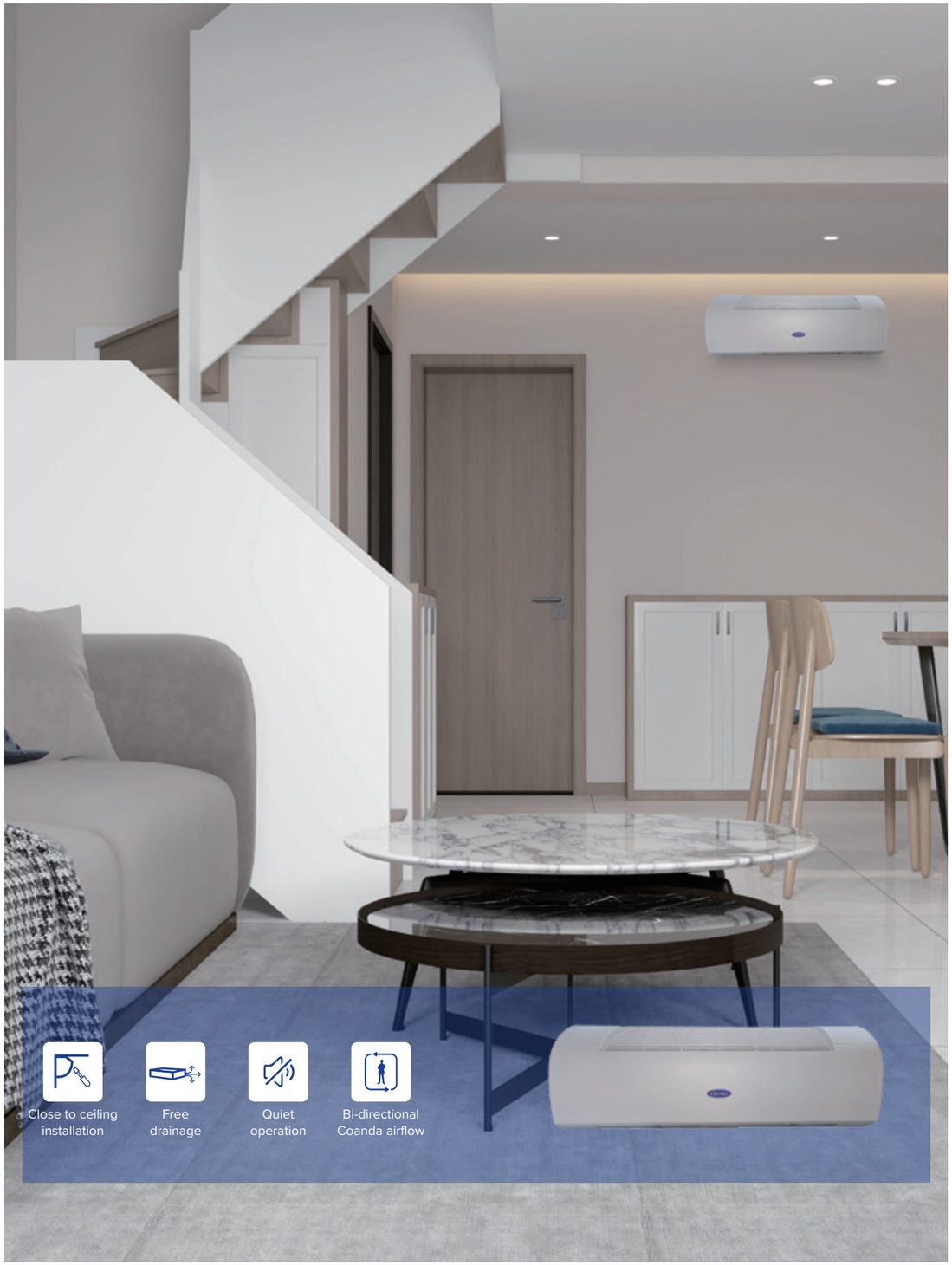


Fault Feedback

Early warning of drain pump fault.



Wall Mounted



COMFORT

Human Detect Sensor*

Using millimeter-wave radar sensor controller automatically turns indoor units on or off upon detecting that the room is occupied or unoccupied, ensuring climate control whilst minimizing energy consumption.

The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

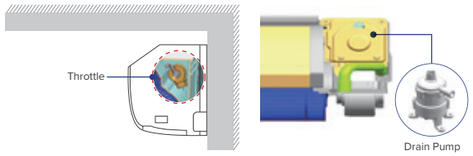
*This function is available as a customization option for Super Y Wall Mounted.

Quiet Operation

The minimum noise level of Wall Mounted is as low as 27dB(A), idea for hotels and other noise-sensitive locations.

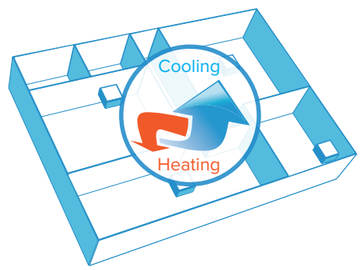
Enclosed design

For Wall Mounted throttling parts and drain pumps adopt closed design, reducing noise.



Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.



Sleep Mode

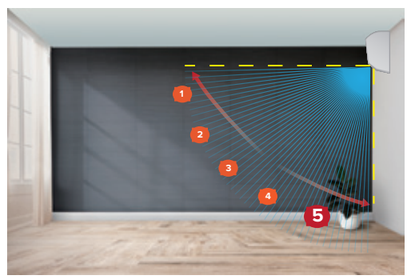
The smart sleep mode provides a comfortable sleep period and a refreshing wake up time.

*Temperature on left is for reference.

AIR FLOW

3D Air Flow*

Possibility to select automatic vertical and horizontal moving of the air discharge louvre, for uniform air flow and temperature distribution.



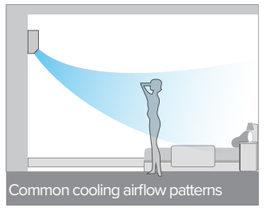
Up & Down

Right & Left

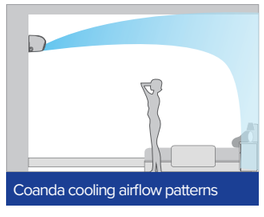
*Horizontal Swing function is available as a customization option for Wall Mounted.

Bi-directional Coanda Airflow

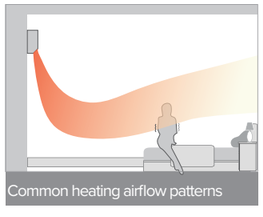
With bi-directional Coanda airflow delivery technology, the cold air does not blow directly on people and the hot air warms up evenly from the feet for better comfort.



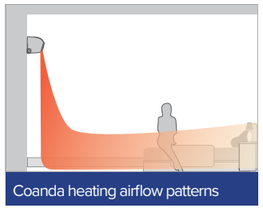
Common cooling airflow patterns



Coanda cooling airflow patterns



Common heating airflow patterns

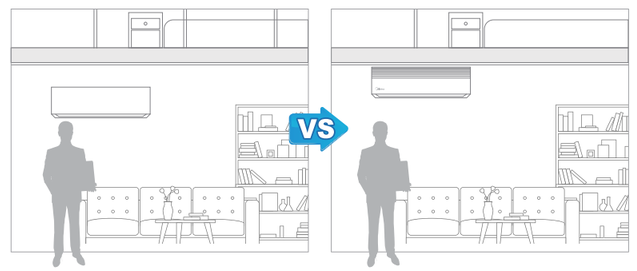


Coanda heating airflow patterns

EASY INSTALLATION

Ceiling Mounting

The Wall Mounted new heat exchanger is designed to meet the installation requirements close to the ceiling, and the minimum distance from the ceiling is 3cm.

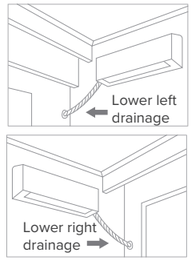


There is some distance from ceiling

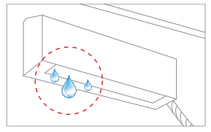
The distance from the ceiling is 3cm

Free Drainage without Space Restrictions

The Wall Mounted can realize horizontal drainage, downward drainage, upward drainage, making installation more flexible.



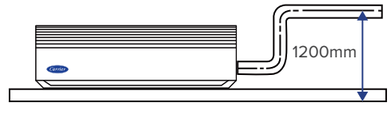
Most conventional Wall Mounted unit does not have a drain pump and the condensate pipe can only be installed underneath the unit, relying on gravity to drain the condensate to the nearest window.



When the condensate pipe is blocked, condensate can drip down onto the floor and damage it.

High-lift drain pump

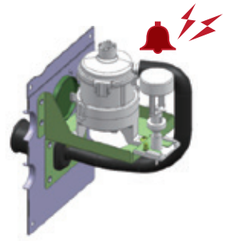
A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.



*The drain pump is available as a customization option.

Fault Feedback

Early warning of drain pump fault.

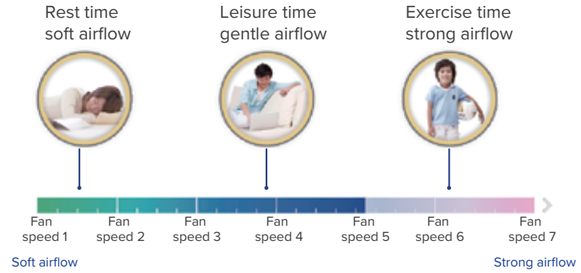


Floor Standing F3-F4-F5

COMFORT

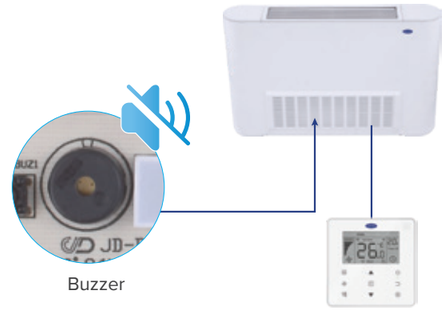
Multiple Fan Speeds

7 indoor fan speeds provide control flexibility to meet the needs of different indoor conditions.



Free Drainage without Space Restrictions

Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.

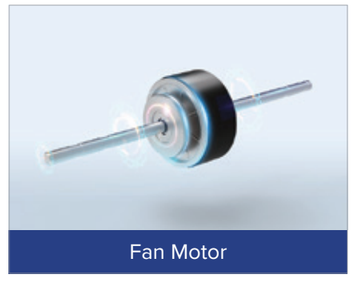


Digital Display On/Off

Indoor unit displays can be shut off at night, creating a better environment for rest.

Quiet Operation

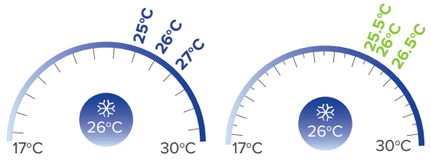
The fan motor is DC power supply, which is more energy-saving and silent than AC power supply, creating a more quiet and comfortable environment



HEALTH

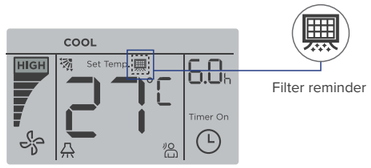
0.5°C/1°C Setting Temperature Adjustment

Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.



Dirty Filters Indicator Signal

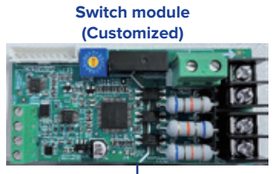
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



WIDER APPLICATION

Air baffle fittings for irregular rooms

A wide range of accessories can be connected via Switch module and Expansion Board for even more functionality.



- Third-party humidifier and dehumidifier
- Electric heater connection
- Refrigerant leak sensor connection
- Third-party controller connection
- Long-distance on/off function
- Long-distance alarm function
- Long-distance Linkage with third-party equipment such as air valve

Multiple Appearance Options

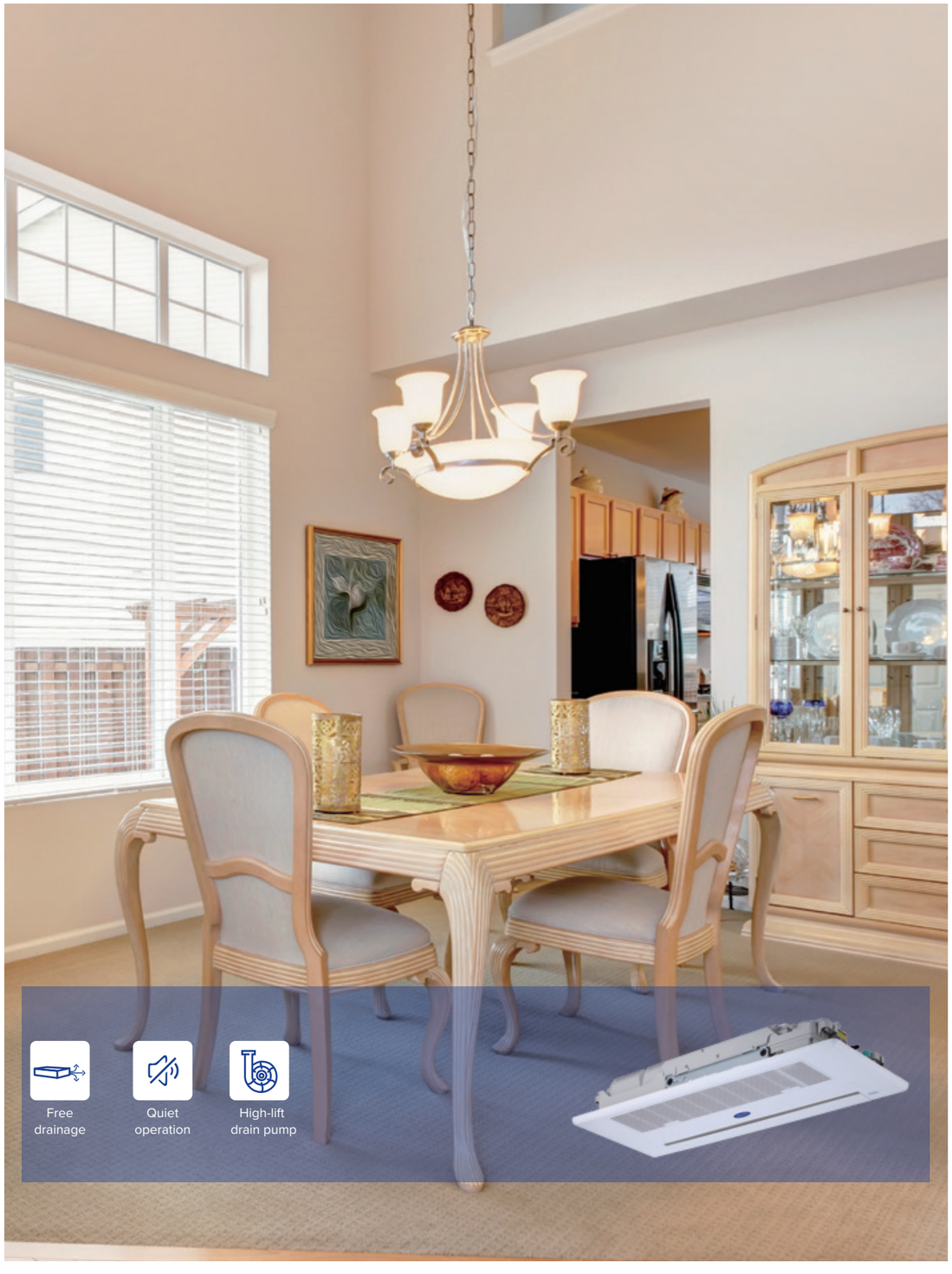
The Floor Standing Unit has three appearance options to meet different installation requirement, the F3B (concealed) unit is designed to be concealed in walls while the F4 (front air intake) and F5 (underside air intake) offer a choice of air intake options.

F3B (concealed)

F4 (front air intake)

F5 (underside air intake)

One-way Cassette



COMFORT

Quiet Operation

By optimizing the design of fan motor, air duct and heat exchanger, the new duct operates with noise as low as 22dB(A), creating a quieter and more comfortable environment

Digital Display On/Off

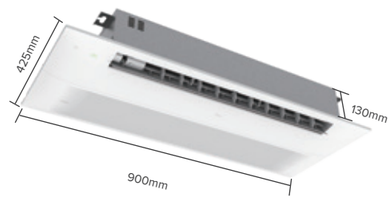
One controller can be used to unify the settings across up to 16 indoor units.

Buzzer Sound On/Off

Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.

Ultra-thin body design

The new one-way cassette units have ultra-thin body design, the body height of the whole series is only 130mm, greatly saving space and more flexible installation.



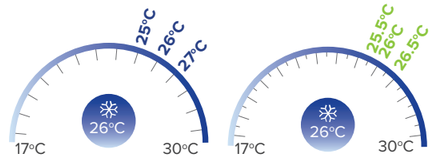
WIDER APPLICATION

Automatic anti-condensation

The One-way Cassette can automatically enter and exit the anti-condensation mode by detecting its own operation data; In the anti-condensation mode, the machine can change the outlet angle of the guide vane intermittently to prevent the local temperature difference of the guide panel from being too large and avoid the occurrence of condensation.

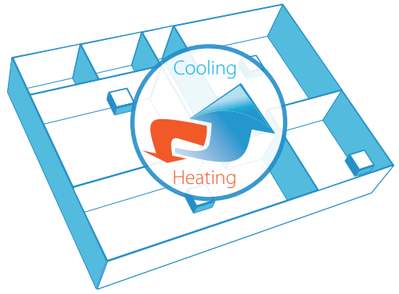
0.5°C/1°C Setting Temperature Adjustment

Set temperature can be adjusted in 0.5° C or 1° C steps, enabling precise comfort control.



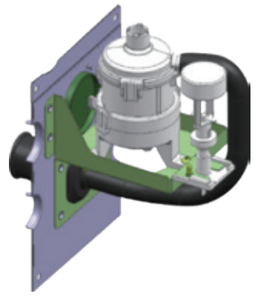
Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.



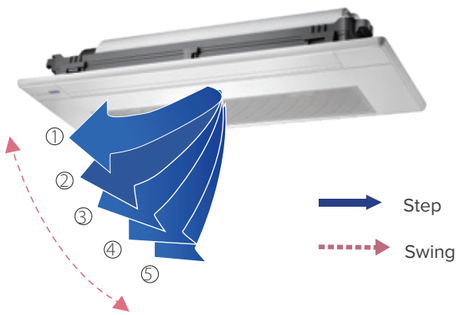
Digital feedback DC water pump

Digital feedback DC water pump: actively sense the pump speed and water flow to determine whether there is jamming attenuation or damage, and give early warning to avoid water leakage.



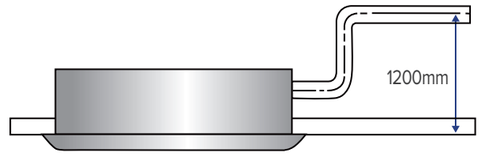
Individual Louver Control

There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs. Air supply angle 25-80°.



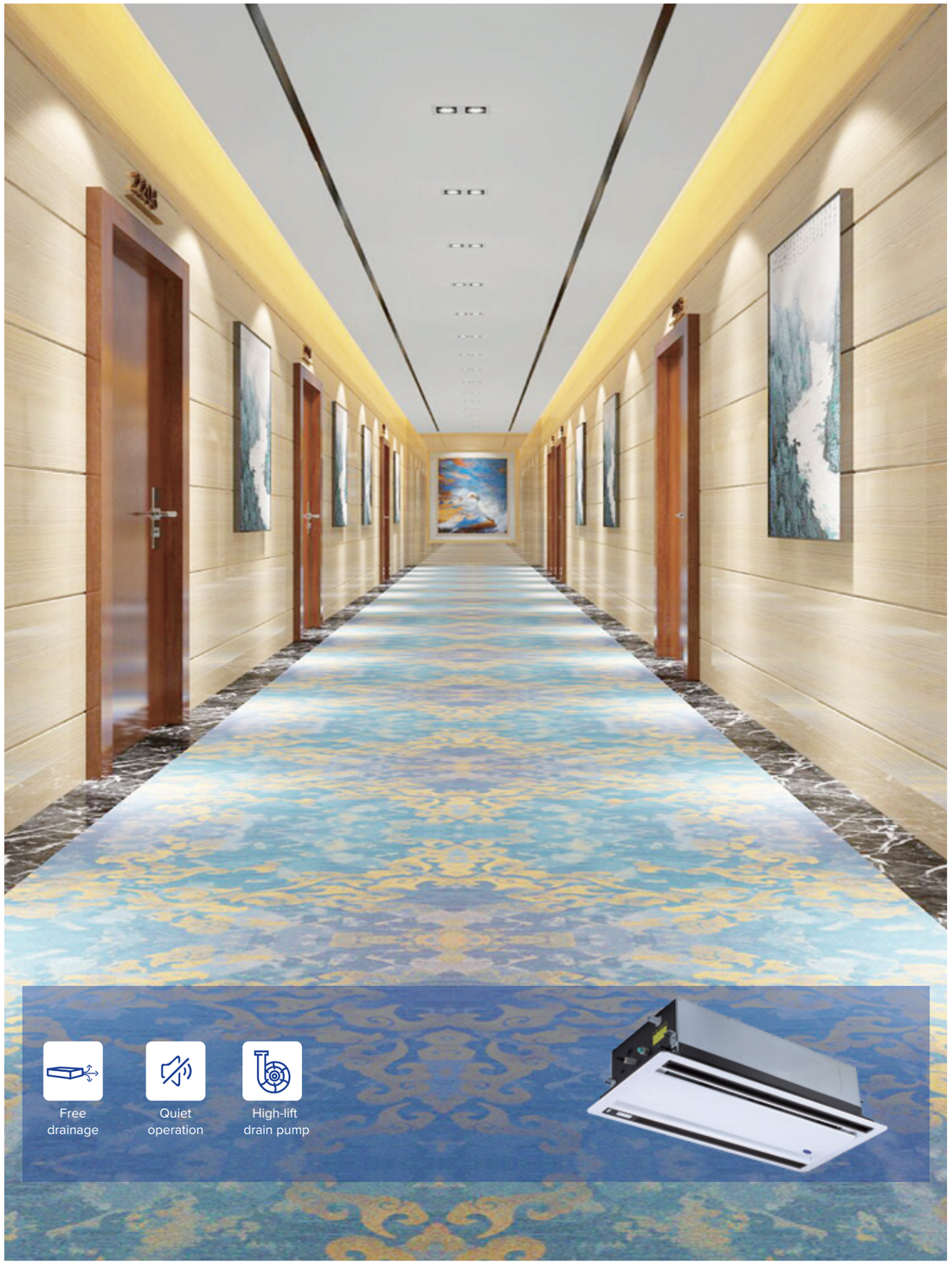
High-lift drain pump

A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.



Ultra-thin body design

Two-way Cassette



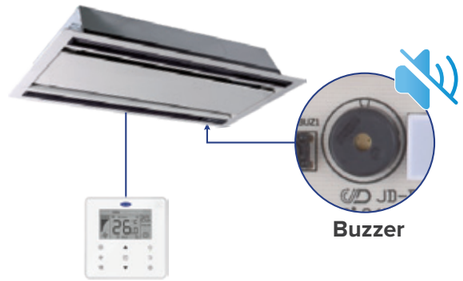
COMFORT

Digital Display On/Off

Indoor unit displays can be shut off at night, creating a better environment for rest.

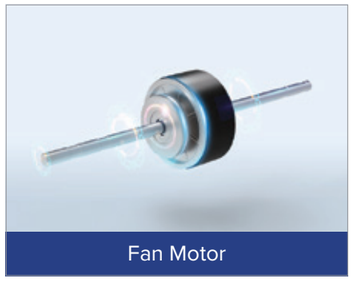
Buzzer Sound On/Off

Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



Quiet Operation

The fan motor and water pump are DC power supply, which is more energy-saving and silent than AC power supply, creating a more quiet and comfortable environment

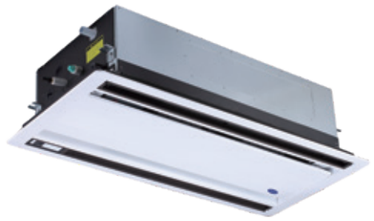

Fan Motor

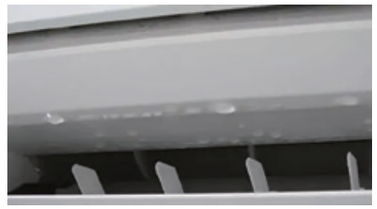

Drain Pump

HEALTH

Automatic anti-condensation

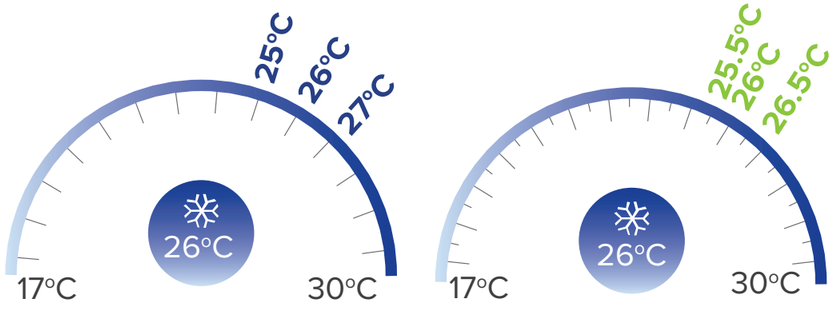
The Two-way Cassette can automatically enter and exit the anti-condensation mode by detecting its own operation data; In the anti-condensation mode, the machine can change the outlet angle of the guide vane intermittently to prevent the local temperature difference of the guide panel from being too large and avoid the occurrence of condensation.





0.5°C/1°C Setting Temperature Adjustment

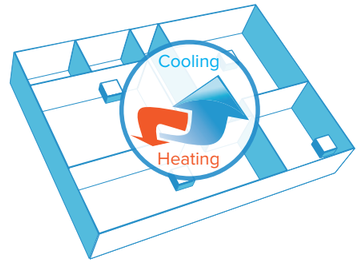
Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.



WIDER APPLICATION

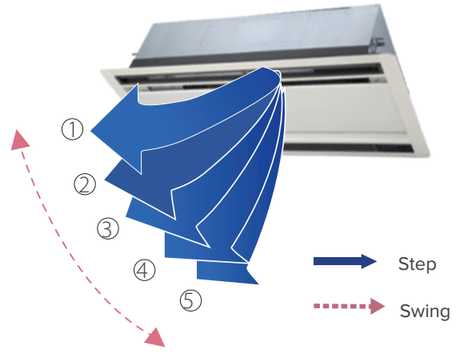
Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.



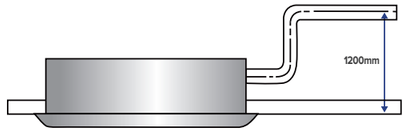
Multiple Steps Vertical Swing

There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs. Air supply angle 35-65 °.



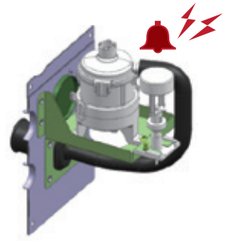
High-lift drain pump

A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.

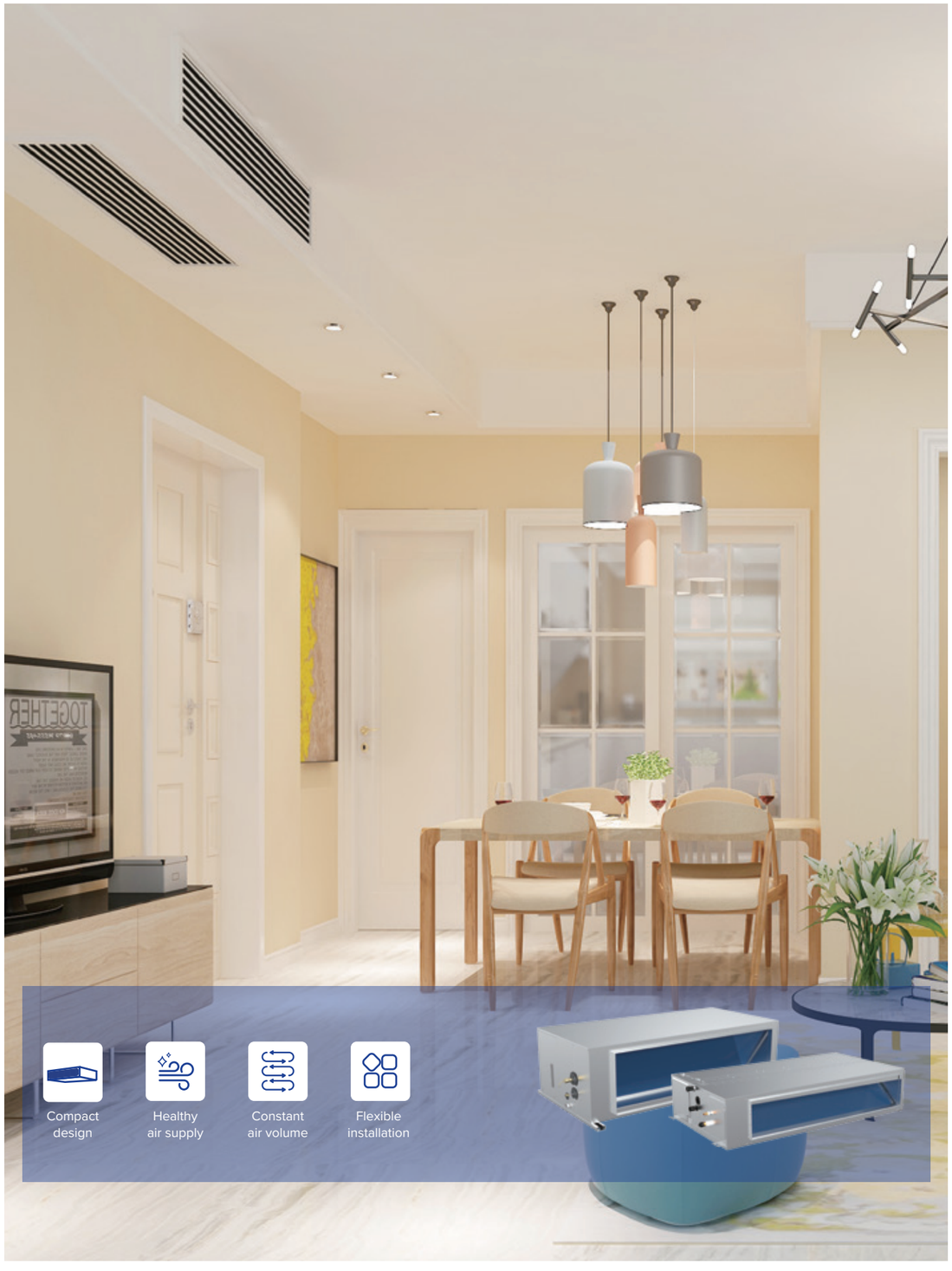


Fault Feedback

Early warning of drain pump fault.



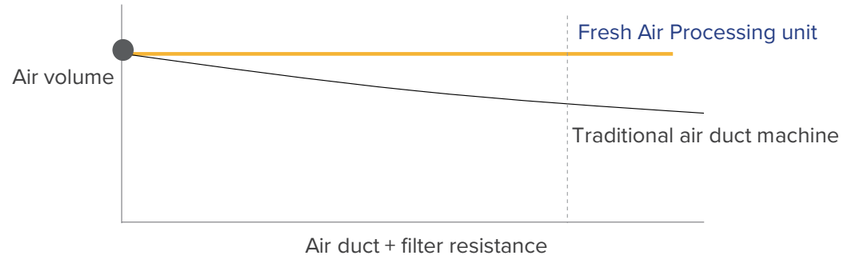
High Static Pressure Duct



AIR FLOW

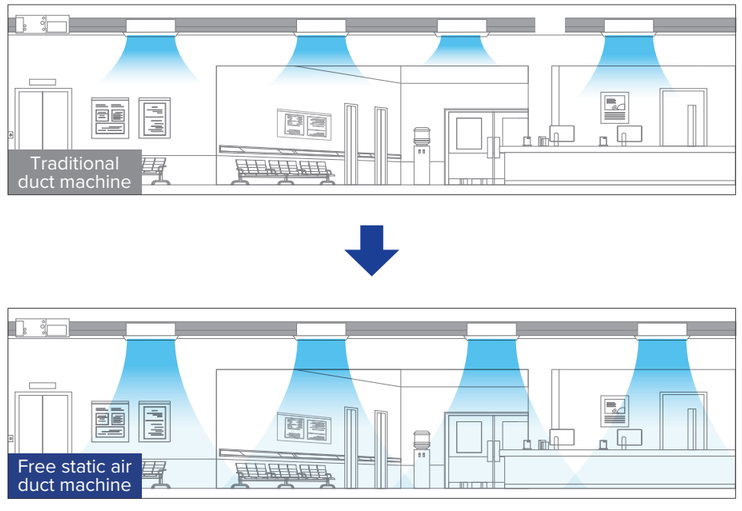
Constant Airflow Technology

Through the independent constant air volume digital fan technology, the air volume is independently detected and adjusted to realize constant air volume and no attenuation in the whole life.



Ultra-high static pressure

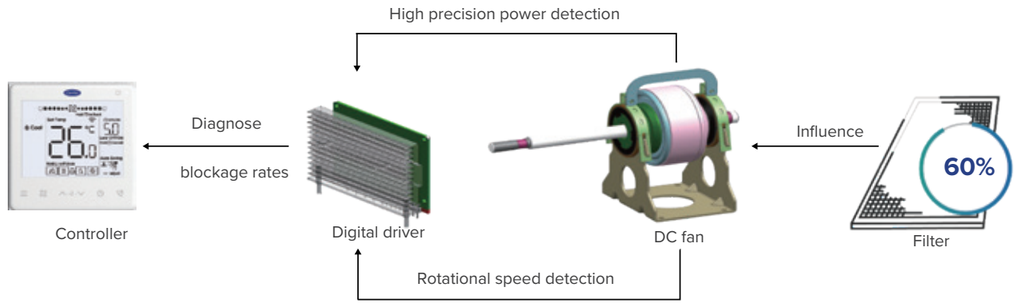
The static pressure can reach 250Pa(5.6-16kW) or 400Pa(20-56kW), so the air supply distance is longer. Especially in long and narrow spaces such as corridors, it can reduce the number of units used and save investment costs..



HEALTH

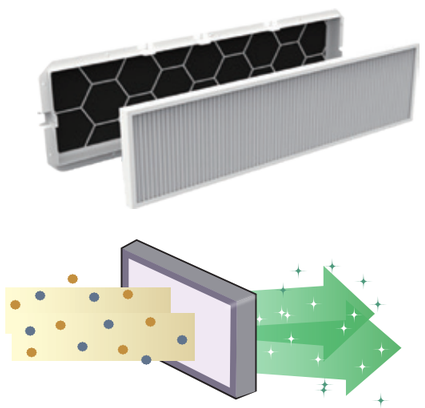
Visualization of dirty blockage ra

Built-in self-learning model can detect the real-time resistance of the filter screen and restore the true state of the filter screen. 10 levels blockage rates can be accurately identified and displayed on the controller, reminding the user to clean the filter in time.



Efficiency filter screen

Optional F7 or H13-class air filter, Equipped with H13 HEPA high-efficiency filter screen, it can filter 0.5 micron extremely fine particles, and the primary filtration efficiency is more than 99.95%.



WIDER APPLICATION

Multi-functional Expansion Board

A wide range of accessories can be connected via Switch module and expansion board for even more functionality.

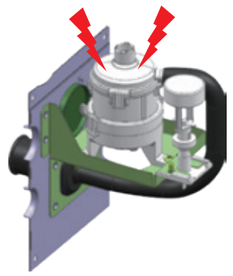
Switch module
(Customized)

1#/2# Expansion Board
(Customized)

- Third-party humidifier and dehumidifier
- Electric heater connection
- Refrigerant leak sensor connection
- Third-party controller connection
- Long-distance on/off function
- Long-distance alarm function
- Long-distance Linkage with third-party equipment such as air valve

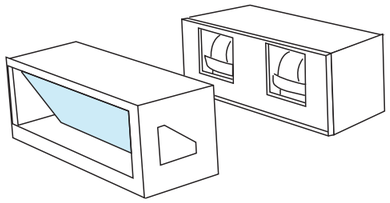
Multiple Steps Vertical Swing

Digital feedback DC water pump, Take the initiative to sense the pump speed and water flow, judge whether there is jamming attenuation or damage, and give early warning to avoid water leakage Integrated drainage pipe design reduces the sealing points of traditional design from 6 to 2, reduces breakpoints and reduces leakage risks



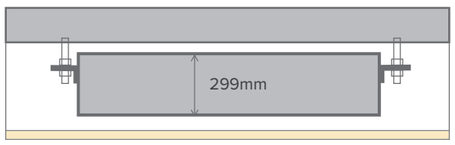
Installation of duct in sections

High Static Pressure Duct units support handling in sections, reducing the weight and size of individual units for easy handling and installation.



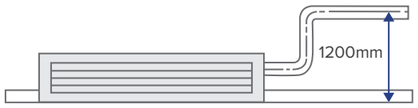
Ultra-thin fuselage

For small Airflow Rate Fresh Air Processing Unit, the fuselage thickness is only 299mm,the height required for ceiling installation is greatly reduced which leads to be able to cope with more installation situations.

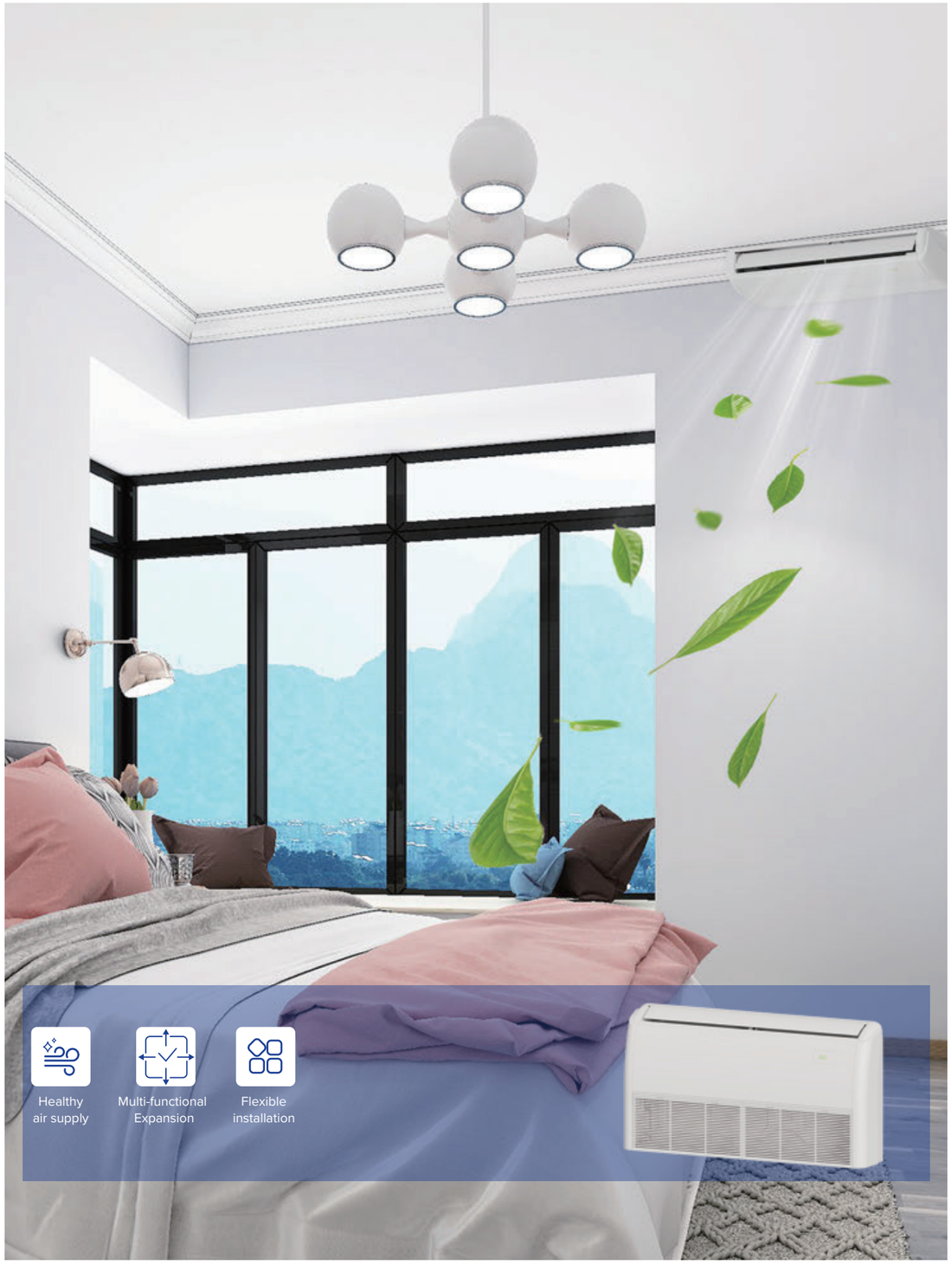


High-lift drain pump

A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.



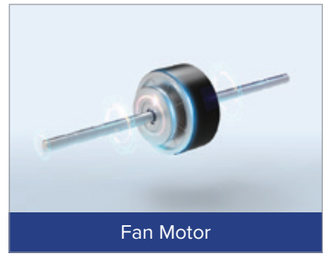
Ceiling&Floor

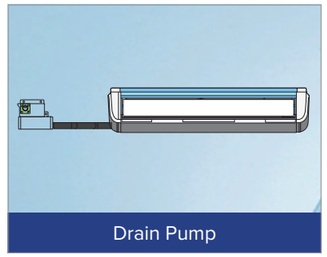


FEATURE

Quiet Operation

The fan motor and water pump* are DC power supply, which is more energy-saving and silent than AC power supply, creating a more quiet and comfortable environment

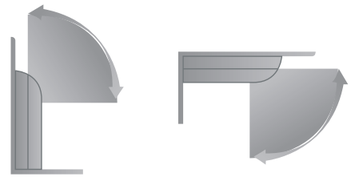

Fan Motor


Drain Pump

*External drain Pump is available as a customization option for unit

Two Installation Options

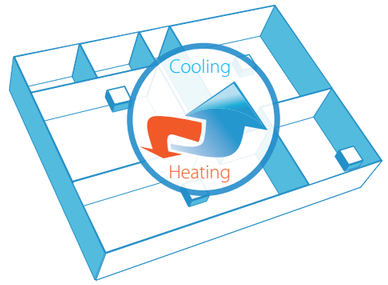
A sleek design suits installation either on the ceiling or floor, providing flexibility to accommodate a wide range of room designs.



The unit can be installed either horizontally on the ceiling or vertically against the wall.

Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.

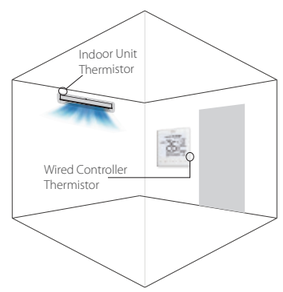


7 Fan Speeds

7 indoor fan speed options to meet the needs of different indoor conditions.

Two thermistors control

The indoor temperature can be checked using the thermistor in the wired controller as well as from the indoor unit

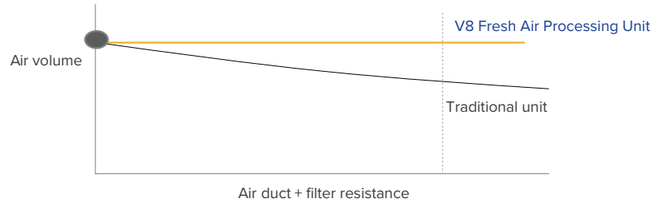


Fresh Air Processing Unit

AIR FLOW

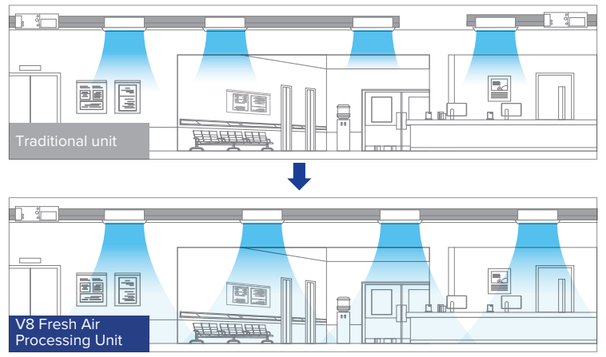
Constant Airflow Technology

Through the independent constant air volume digital fan technology, the air volume is independently detected and adjusted to realize constant air volume and no attenuation in the whole life.



Ultra-high static pressure

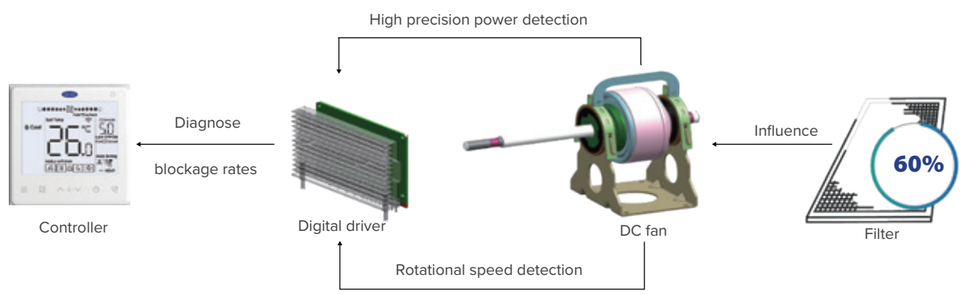
The static pressure can reach 400Pa(20-56kW), so the air supply distance is longer. Especially in long and narrow spaces such as corridors, it can reduce the number of units used and save investment costs..



HEALTH

Visualization of dirty blockage rate

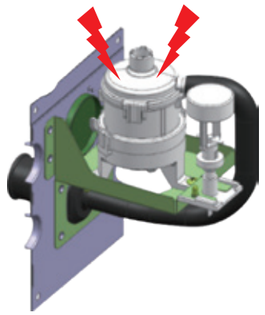
Built-in self-learning model can detect the real-time resistance of the filter screen and restore the true state of the filter screen.
10 levels blockage rates can be accurately identified and displayed on the controller, reminding the user to clean the filter in time.



WIDER APPLICATION

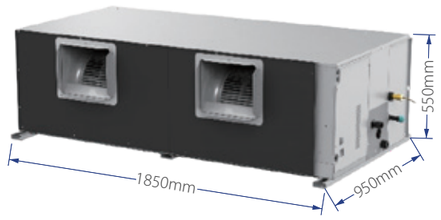
Intelligent leak feedback

Digital feedback DC water pump, Take the initiative to sense the pump speed and water flow, judge whether there is jamming attenuation or damage, and give early warning to avoid water leakage Integrated drainage pipe design reduces the sealing points of traditional design from 6 to 2, reduces breakpoints and reduces leakage risks



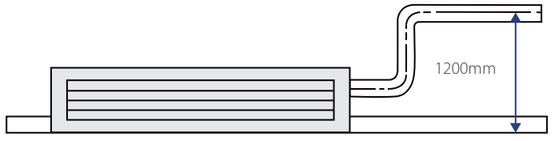
Ultra-thin fuselage

20 -56 kW model, the fuselage thickness is only 550mm,the height required for ceiling installation is greatly reduced which leads to be able to cope with more installation situations.



High-lift drain pump

A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.

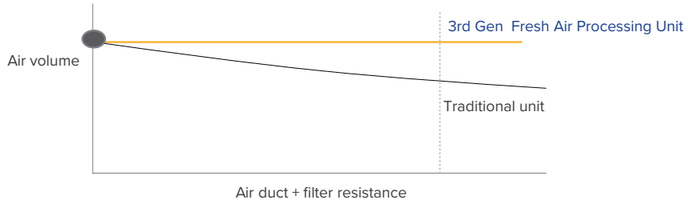


Small Airflow Rate Fresh Air Processing

AIR FLOW

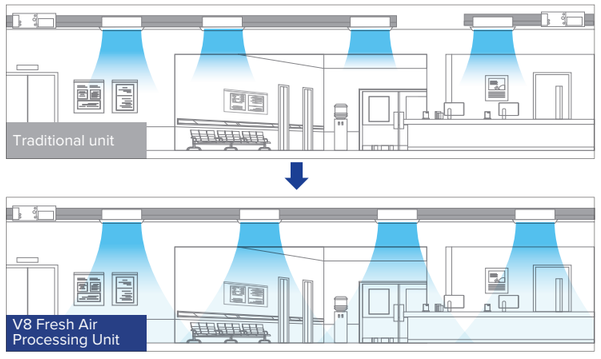
Constant Airflow Technology

Through the independent constant air volume digital fan technology, the air volume is independently detected and adjusted to realize constant air volume and no attenuation in the whole life.



Ultra-high static pressure

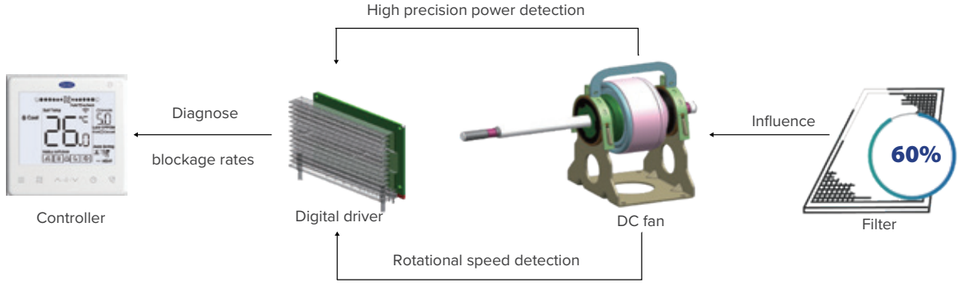
The static pressure can reach 400Pa(20-56kW), so the air supply distance is longer. Especially in long and narrow spaces such as corridors, it can reduce the number of units used and save investment costs..



HEALTH

Visualization of dirty blockage rate

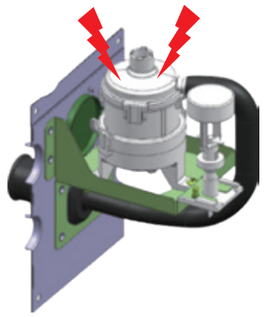
Built-in self-learning model can detect the real-time resistance of the filter screen and restore the true state of the filter screen.
10 levels blockage rates can be accurately identified and displayed on the controller, reminding the user to clean the filter in time.



WIDER APPLICATION

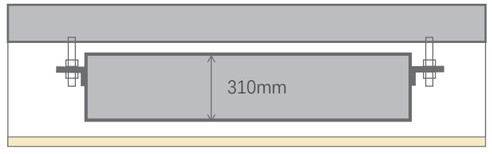
Intelligent leak feedback

Digital feedback DC water pump, Take the initiative to sense the pump speed and water flow, judge whether there is jamming attenuation or damage, and give early warning to avoid water leakage Integrated drainage pipe design reduces the sealing points of traditional design from 6 to 2, reduces breakpoints and reduces leakage risks



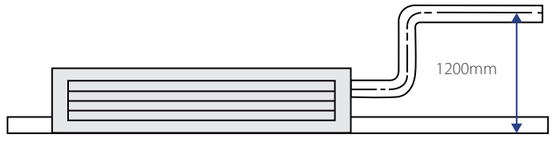
Ultra-thin fuselage

9-28 kW model, the fuselage thickness is only 310mm,the height required for ceiling installation is greatly reduced which leads to be able to cope with more installation situations.

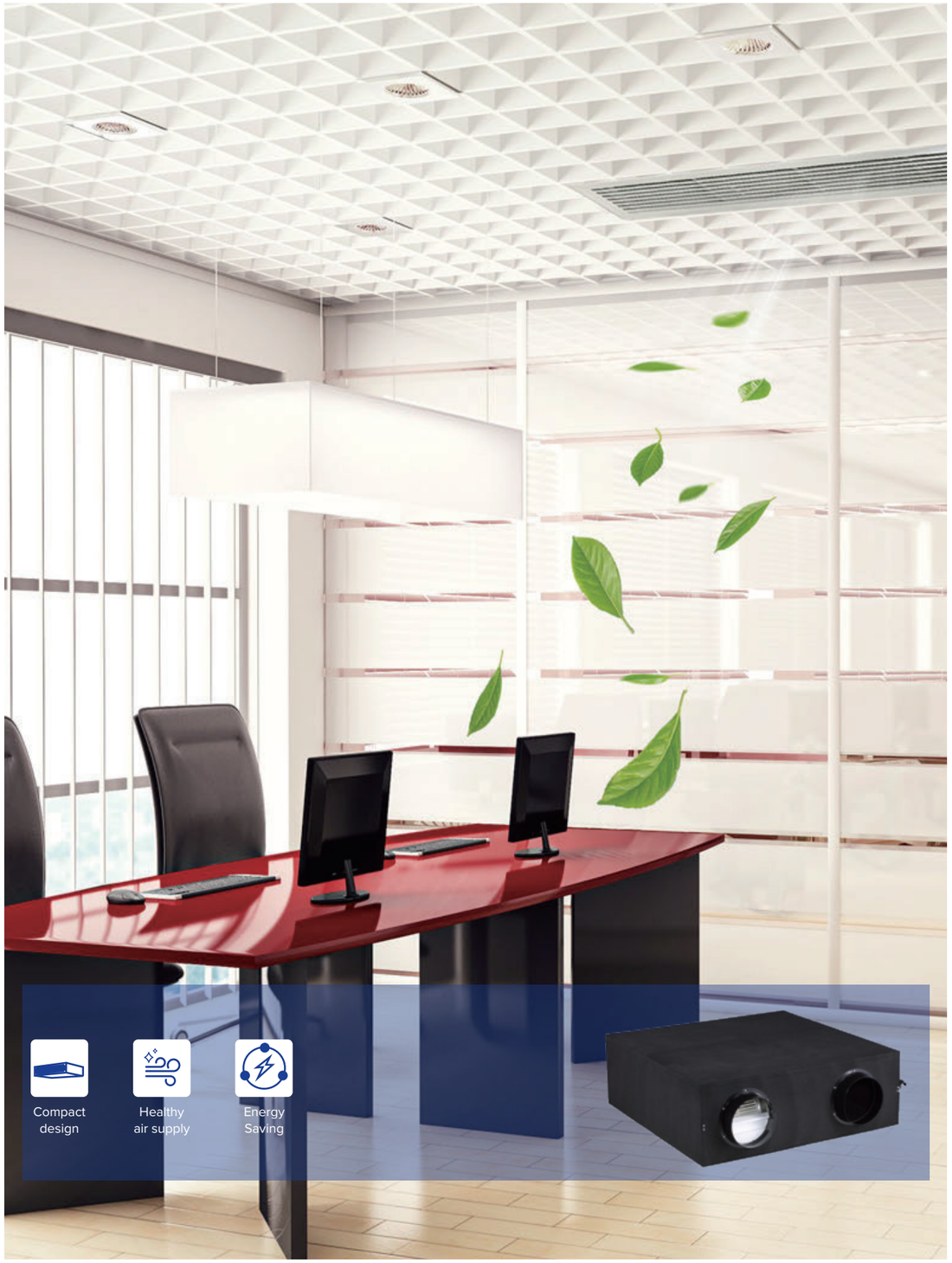


High-lift drain pump

A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.



3rd. Gen. HRV



Features

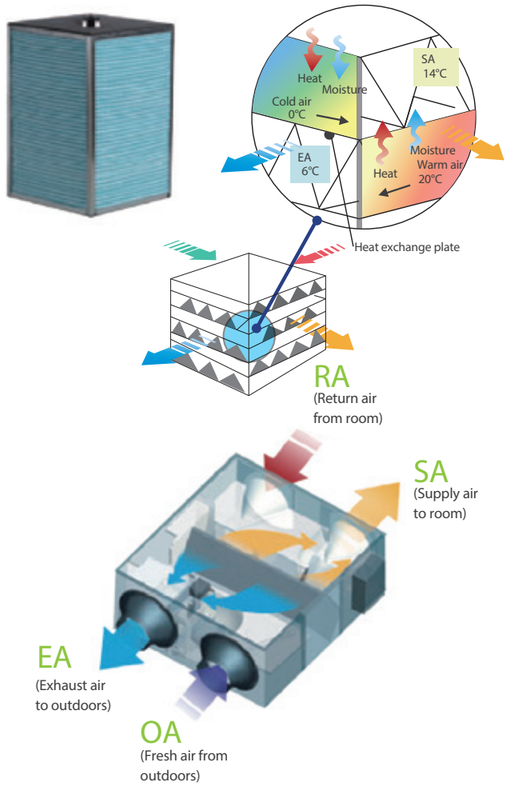
Wide Capacity Range

The airflow is from 200m3/h to 2000m3/h which can meet the requirements of most scenarios.

200-400m³/h 500-1000m³/h 1500-2000m³/h

Energy Saving, Heat Recovery for Both Heat and Humidity

The heat recovery ventilator (HRV) can greatly reduce energy loss and room temperature fluctuations caused by the ventilation process. The Carrier HRV's strong performance is a result of the advanced technology incorporated into its design. The heat exchanger core is made of specially filter material which gives enhanced temperature and humidity control. It prevents energy being wasted by recovering waste heat from the outgoing air, thus offering much greater levels of efficiency, while improving comfort levels too.

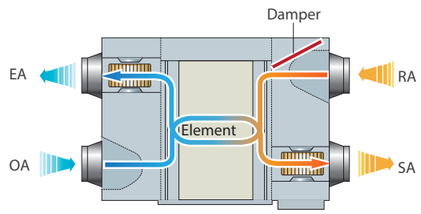


Multiple Operation Modes

Multiple operation modes: Auto, Bypass, Heat recovery, Free cooling mode.

Heat exchange mode

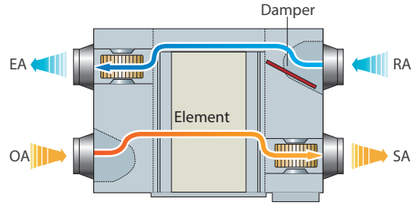
The flows of incoming and outgoing air pass close to each other, allowing heat transfer between the two channels. During summer, incoming air is cooled by the indoor air being exhausted and in winter, incoming air is warmed.



Heat exchange mode

Bypass mode

In mild climates or seasons, where temperature and humidity differences between indoors and outdoors are small, the HRV can work as a conventional ventilation fan. In standard bypass mode the supply and exhaust fans run at the same speed.



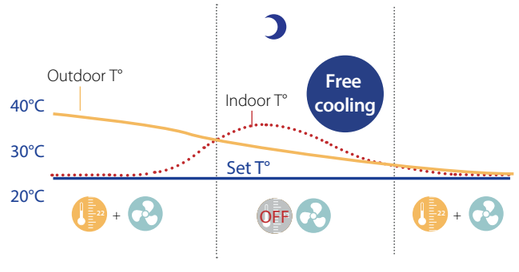
Bypass mode

Auto mode

The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoors and indoors. Both fans are set to run at low speed.

Free Cooling Mode*

Free cooling mode is only available for DC Series HRV. Free cooling operation is an energy saving function operating when outdoor ambient temperature is below indoor ambient temperature, it uses low temperature fresh air to cool down indoor temperature, reducing the running costs.



*The function is only enabled when connected to the centralized control

WIDER APPLICATION

Wide Range of Controllers.

The HRV has its special wired controller WR-86S2-CM. It also can be centralized control with VRF system through centralized controller and network control with VRF system through Carrier gateways.

Wired Controller

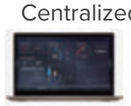
WR-86S2-CM

NW3-CLOUD-CM

GW3-CLOUD

BMS gateway

Centralized Controller*



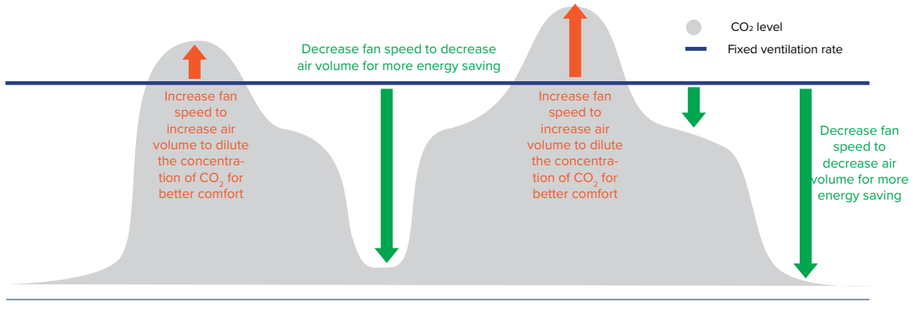
4GNS-30-IF

CRF-270D-CM

*The centralized control will be available in December 2023.， The gateway will be available in March 2024

CO_2 Sensor Option

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore, an optional CO2 sensor can be installed which switches off the ventilation system when there is enough fresh air in the room, thus saving energy.



High Efficiency Filter

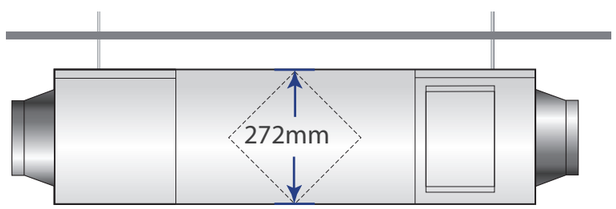
Standard Built-in G4-class dust filter, optional F7-class filter for air supply side and M5-class filter for exhaust air side in line with EU legislations can be customized.

F7-class filter

M5-class filter

Easy Installation

Slim and compact design of units, making the installation more convenient.

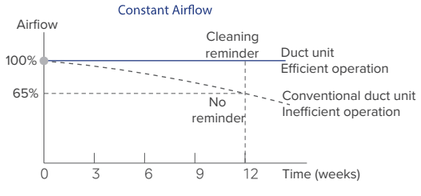


Floor-Standing Units (FS)

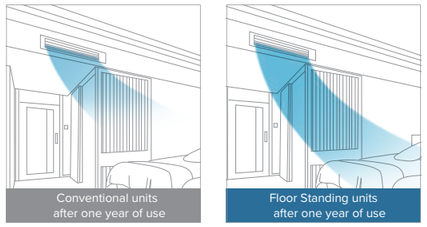
AIR FLOW

Constant airfiow*

By utilizing digital fan technology, air volume output levels are monitored and maintained at consistent levels. This capability allows it to overcome installation challenges without experiencing any reduction in performance, even with prolonged use.



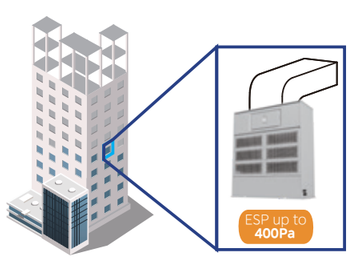
*Data measured in the UX lab of Midea

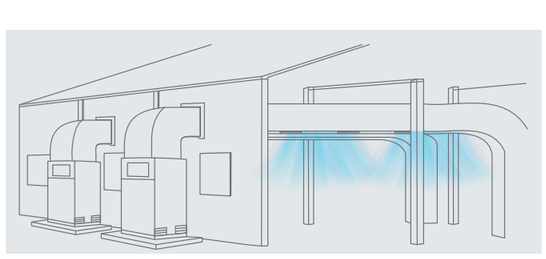


*Only the top discharge type units supports the constant airfow function.

High external static pressure

With a static pressure of 400Pa, top discharge type units can be connected to a air duct, which increases the fiexibility of choosing the installation point of the equipment.

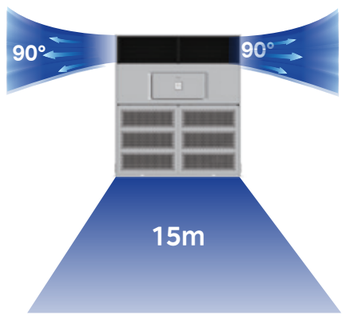




*Only the top discharge type units have external static pressure. The maximum static pressure for outdoor installation is 350Pa.

Large angle of wind

High efficiency fan, large air supply, large angle air, fast temperature control.



Easy Installation and Service

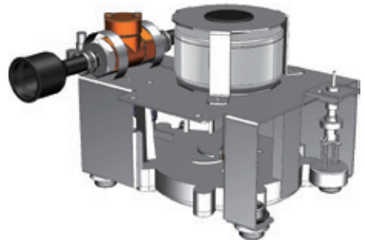
Flexible installation location

Flexible installation location, indoor and outdoor can be installed, Waterproof grade is IPX4, which is safer and more reliable.

*Outdoor installation needs to be customized.

More reliable drainage

Optional 6m drain pump*, to meet most of the plants and other industrial areas on the top of the drainage requirements. 5-21L drain pan, to ensure that the extreme working conditions and failures do not overfiow

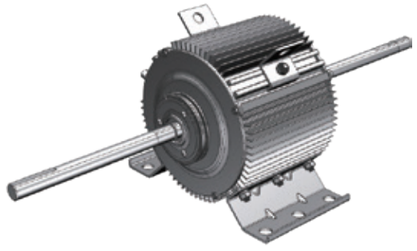


*The drain pump is available as a customization option

High Effciency

Full DC electronic components

The fan motor is DC power supply, making the temperature control more precise and the indoor temperature more uniform.



Specifications

Compact Four-way Cassette
Four-way Cassette
Slim Duct
Medium Static Pressure Duct
Wall Mounted
Floor Standing
One-way Cassette
Two-way Cassette
High Static Pressure Duct
Ceiling&Floor
Fresh Air Processing
Small Airflow Rate Fresh Air Processing
3rd. Gen. HRV
New One way Cassette
Free Standing
High Static Pressure Duct(section)

Specifications

Compact Four-way Cassette

Model			40VX005H11500018	40VK009H11500018(i)	40VX009H11500018	40VX012H11500018
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	1.5	2.2	2.8	3.6
		kBtu/h	5.1	7.5	9.6	12.3
	Power input	W	14	14	16	18
Heating[2]	Capacity	kW	1.8	2.4	3.2	4.0
		kBtu/h	6.1	8.2	10.9	13.7
	Power input	W	14	14	16	18
Air flow rate[3]		m^3/h	450/425/400/370/345/320/295		510/480/455/425/395/370/340	530/500/470/440/405/375/345
Sound pressure level[4]		dB(A)	29/28/27/27/26/26/25		30/29/28/27/26/26/25	31/30/29/28/27/26/25.5
Sound power level		dB(A)	40/39/39/39/38/38/38		42/41/40/39/39/38/38	42/40/39/38/38/38/38
Main body	Net dimensions[5] (W×H×D)	mm	575×235×638			
	Packed dimensions (W×H×D)	mm	690×285×690			
	Net/Gross weight	kg	13.0/15.0			14.0/16.0
Panel	Net dimensions (W×H×D)	mm	620×65×620			
	Packed dimensions (W×H×D)	mm	680×80×665			
	Net/Gross weight	kg	2.4/3.2			
Refrigerant type			R410A/R32			
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7			
	Drain pipe	mm	OD Ø25			

Four-way Cassette

Model			40VK009H11500018(i)	40VK012H11500018(i)
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	2.8	3.6
		kBtu/h	9.6	12.3
	Power input	W	17.0	17.0
Heating[2]	Capacity	kW	3.2	4.0
		kBtu/h	10.9	13.7
	Power input	W	17.0	17.0
Air flow rate[3]		m^3/h	790/740/691/641/591/542/492	790/740/691/641/591/542/492
Sound pressure level[4]		dB(A)	30/29/28/27.5/27/26/25	30/29/28/27.5/27/26/25
Main body	Net dimensions[5] (W×H×D)	mm	840×204×840	840×204×840
	Packed dimensions (W×H×D)	mm	940×250×940	940×250×940
	Net/Gross weight	kg	18/20.5	18/20.5
Panel	Net dimensions (W×H×D)	mm	950×50×950	950×50×950
	Packed dimensions (W×H×D)	mm	1020×90×1020	1020×90×1020
	Net/Gross weight	kg	5.8/7.6	5.8/7.6
Refrigerant type			R410A/R32	
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7
	Drain pipe	mm	OD Ø25	

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Model			40VX016H11500018(i)	40VX020H11500018(i)	40VX022H11500018
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	4.5	5.6	6.3
		kBtu/h	15.4	19.1	21.5
	Power input	W	25	35	50
Heating[2]	Capacity	kW	5.0	6.3	7.1
		kBtu/h	17.1	21.5	24.2
	Power input	W	25	35	50
Air flow rate[3]		m^3/h	640/605/570/530/495/460/425	810/765/720/670/625/580/535	905/855/805/755/705/655/605
Sound pressure level[4]		dB(A)	36.5/35/33/31/29/28/26.5	39/38/37/36/35/34/32	43/42/40/38/36/35/33.5
Sound power level		dB(A)	44/44/43/42/41/41/41	48/46/45/43/42/42/41	51/50/48/46/45/44/42
Main body	Net dimensions[5] (W×H×D)	mm	575×235×638		
	Packed dimensions (W×H×D)	mm	690×285×690		
	Net/Gross weight	kg	14.0/16.0	15.0/17.0	
Panel	Net dimensions (W×H×D)	mm	620×65×620		
	Packed dimensions (W×H×D)	mm	680×80×665		
	Net/Gross weight	kg	2.4/3.2		
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7		Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25		

Model			40VK016H11500018(i)	40VK020H11500018(i)	40VK024H11500018(i)
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15.4	19.1	24.2
	Power input	W	36.0	23.0	32.0
Heating[2]	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17.1	21.5	27.3
	Power input	W	36.0	23.0	32.0
Air flow rate[3]		m^3/h	910/840/770/701/631/561/491	840/791/741/692/642/593/543	1000/943/886/829/772/715/658
Sound pressure level[4]		dB(A)	37/35/34/32/30/29/27	33/32/31/30/29/28/27	37/36/34/33/31/30/28
Main body	Net dimensions[5] (W×H×D)	mm	840×204×840	840×204×840	840×204×840
	Packed dimensions (W×H×D)	mm	940×250×940	940×250×940	940×250×940
	Net/Gross weight	kg	18/20.5	19.5/22	19.5/22
Panel	Net dimensions (W×H×D)	mm	950×50×950	950×50×950	950×50×950
	Packed dimensions (W×H×D)	mm	1020×90×1020	1020×90×1020	1020×90×1020
	Net/Gross weight	kg	5.8/7.6	5.8/7.6	5.8/7.6
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25		

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

Four-way Cassette

Model			40VK028H11500018(i)	40VK030H11500018(i)	40VK034H11500018(i)
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	8.0	9.0	10.0
		kBtu/h	27.3	30.7	34.1
	Power input	W	41.0	43.0	74.0
Heating[2]	Capacity	kW	9.0	10.0	11.2
		kBtu/h	30.7	34.1	38.2
	Power input	W	41.0	43.0	74.0
Air flow rate[3]		m^3/h	1100/1019/939/858/777/697/616	1330/1239/1148/1057/965/874/783	1470/1360/1250/1141/1031/921/811
Sound pressure level[4]		dB(A)	42.5/40/38/36/34/32/30	38/37/35/34/32/31/29	43/41/40/38/36/35/33
Main body	Net dimensions[5] (W×H×D)	mm	840×204×840	840×246×840	840×246×840
	Packed dimensions (W×H×D)	mm	940×250×940	940×295×940	940×295×940
	Net/Gross weight	kg	19.5/22	21.5/24	21.5/24
Panel	Net dimensions (W×H×D)	mm	950×50×950	950×50×950	950×50×950
	Packed dimensions (W×H×D)	mm	1020×90×1020	1020×90×1020	1020×90×1020
	Net/Gross weight	kg	5.8/7.6	5.8/7.6	5.8/7.6
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25		

Model			40VK040H11500018(i)	40VK048H11500018(i)	40VK054H11500018(i)	40VK060H11500018(i)
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	11.2	14.0	16.0	18.0
		kBtu/h	38.2	47.8	54.6	61.4
	Power input	W	61.0	118.0	110.0	145.0
Heating[2]	Capacity	kW	12.5	16.0	18.0	20.0
		kBtu/h	42.7	54.6	61.4	68.2
	Power input	W	61.0	118.0	110.0	145.0
Air flow rate[3]		m^3/h	1600/1497/1393/1290/ 1186/1083/979	1900/1787/1673/1560/ 1446/1333/1219	2100/1900/1760/1630/ 1500/1380/1270	2300/2140/1960/1770/ 1600/1430/1270
Sound pressure level[4]		dB(A)	41/40/38/37/36/34/33	47.5/46/44/42/40/38/36.5	48/46/44/43/41/39/37	52/49/47/45/42/39/38
Main body	Net dimensions[5] (W×H×D)	mm	840×288×840	840×288×840	950×300×950	950×300×950
	Packed dimensions (W×H×D)	mm	940×335×940	940×335×940	1050×335×1050	1050×335×1050
	Net/Gross weight	kg	24/26.5	24/26.5	32.6/37.2	32.7/37.3
Panel	Net dimensions (W×H×D)	mm	950×50×950	950×50×950	1050×65×1050	1050×65×1050
	Packed dimensions (W×H×D)	mm	1020×90×1020	1020×90×1020	1115×100×1115	1115×100×1115
	Net/Gross weight	kg	5.8/7.6	5.8/7.6	7.4/9.7	7.4/9.7
Refrigerant type			R410A/R32			
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø19.1
	Drain pipe	mm	OD Ø25			

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

Slim Duct

Model			42VD005H115002018	42VD007H115002018
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	1.5	2.2
		kBtu/h	5.1	7.5
	Power input	W	21	22
Heating[2]	Capacity	kW	1.8	2.5
		kBtu/h	6.1	8.5
	Power input	W	21	22
Air flow rate[3]		m^3/h	340/335/329/320/307/298/290	370/347/339/322/314/ 306/295
External static pressure[4]		Pa	10 (10-50)	
Sound pressure level[4]		dB(A)	27/26/25.5/24.5/23.5/ 22.5/22	28/27.5/26.5/25.5/24.5/23.5/22.0
Sound power level		dB(A)	43.5/43/42.5/42/41.5/41/40	46/45/44/43/42/41/40
Unit	Net dimensions (W×H×D)	mm	653×199×470	
	Packed dimensions (W×H×D)	mm	715×275×525	
	Net/Gross weight	kg	11.5/13.5	
Refrigerant type			R410A/R32	
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	
	Drain pipe	mm	OD Ø25	

Model			42VD009H115002018	42VD012H115002018	42VD016H115002018
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	2.8	3.6	4.5
		kBtu/h	9.6	12.3	15.4
	Power input	W	28	31	43
Heating[2]	Capacity	kW	3.2	4	5
		kBtu/h	10.9	13.7	17.1
	Power input	W	28	31	43
Air flow rate[3]		m^3/h	460/431/413/380/351/ 323/300	605/557/508/453/414/ 365/320	800/770/701/629/557/ 506/435
External static pressure[4]		Pa	10 (10-50)		
Sound pressure level[4]		dB(A)	30/29.5/28.5/27.5/26/24.5/22	30/29.5/28.5/27.5/ 26.5/25.5/25	33/32.5/32/30.5/29/ 27.5/26
Sound power level		dB(A)	50.5/49/47/45.5/43.5/42/40	50.5/49.5/48/47/45.5/42.5/43	52/50.5/49/47.5/46/44.5/43
Unit	Net dimensions (W×H×D)	mm	653×199×470	803×199×470	1003×199×470
	Packed dimensions (W×H×D)	mm	715×275×525	865×275×525	1065×275×525
	Net/Gross weight	kg	11.5/13.5	13.0/15.5	16.5/19.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7		
	Drain pipe	mm	OD Ø25		

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.
6. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

Slim Duct

Model			42VD020H115002018	42VD024H115002018	42VD028H115002018
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	5.6	7.1	8
		kBtu/h	19.1	24.2	27.3
	Power input	W	58	65	108
Heating[2]	Capacity	kW	6.3	8	9
		kBtu/h	21.5	27.3	30.7
	Power input	W	58	65	108
Air flow rate[3]		m^3/h	900/800/761/682/603/ 549/470	1145/1033/957/860/763/671/580	1400/1327/1249/1175/1095/1026/960
External static pressure[4]		Pa	10 (10-50)	10 (10-50)	20Pa(10-80)
Sound pressure level[4]		dB(A)	36/34.5/33.5/32.5/ 31/29/27	37/35/34/32.5/31/30/29	36.5/35.5/34.5/33/ 32/31.5/30.5
Sound power level		dB(A)	56/54/52/50/48/46/44	57/55.5/54/52/50.5/49/47	57/56/54.5/53.5/52/51/49.5
Unit	Net dimensions (W×H×D)	mm	1003×199×470	1203×199×470	1703×199×470
	Packed dimensions (W×H×D)	mm	1065×275×525	1265×275×525	1755×255×525
	Net/Gross weight	kg	16.5/19.5	20/23.5	28/32.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø9.52/Ø15.9	Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25		

Model			42VD030H115002018	42VD040H115002018
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	9	11.2
		kBtu/h	30.7	38.2
	Power input	W	108	128
Heating[2]	Capacity	kW	10	12.5
		kBtu/h	34.1	42.7
	Power input	W	108	128
Air flow rate[3]		m^3/h	1400/1327/1249/1175/1095/1026/960	1620/1522/1433/1343/1254/1170/1080
External static pressure[4]		Pa	20Pa(10-80)	
Sound pressure level[4]		dB(A)	36.5/35.5/34.5/33/ 32/31.5/30.5	39.5/38/36.5/35/34/ 32.5/31.5
Sound power level		dB(A)	57/56/54.5/53.5/52/51/49.5	60.5/59/57.5/55.5/54/52.5/50.5
Unit	Net dimensions (W×H×D)	mm	1703×199×470	1703×199×470
	Packed dimensions (W×H×D)	mm	1755×255×525	1755×255×525
	Net/Gross weight	kg	28/32.5	
Refrigerant type			R410A/R32	
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9	
	Drain pipe	mm	OD Ø25	

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.
6. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

Medium Static Pressure Duct

Model			42VD005H115003018	42VD007H115003018	42VD009H115003018
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	1.5	2.2	2.8
		kBtu/h	5.1	7.5	9.6
	Power input	W	33	36	40
Heating[2]	Capacity	kW	1.8	2.5	3.2
		kBtu/h	6.1	8.5	10.9
	Power input	W	33	36	40
Air flow rate[3]		m^3/h	470/438/407/375/343/312/280	500/467/433/400/367/333/300	540/503/467/430/393/357/320
External static pressure[4]		Pa	30 (10~160)		
Sound pressure level[4]		dB(A)	26.5/26/25/24/23/22.5/22	26.5/26/25/24/23/22.5/22	26.5/26/25/24/23/22.5/22
Sound power level		dB(A)	46/44.5/43/41.5/40/38.5/37	47/45.5/44/42.5/41/39.5/38	47/45.5/44/42.5/41/39.5/38
Unit	Net dimensions (W×H×D)	mm	710×245×770		
	Packed dimensions (W×H×D)	mm	765×305×890		
	Net/Gross weight	kg	18.5/21	18.5/21	18.5/21
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7		
	Drain pipe	mm	OD Ø25		

Model			42VD012H115003018	42VD016H115003018	42VD020H115003018
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	3.6	4.5	5.6
		kBtu/h	12.3	15.4	19.1
	Power input	W	50	70	70
Heating[2]	Capacity	kW	4	5	6.3
		kBtu/h	13.7	17.1	21.5
	Power input	W	50	70	70
Air flow rate[3]		m^3/h	575/535/495/455/415/375/335	665/623/580/538/495/453/410	970/904/838/773/707/641/575
External static pressure[4]		Pa	30 (10~160)		
Sound pressure level[4]		dB(A)	29/28/27/26/25/23/22	33/32/29.5/28/26.5/25/24	33/32/31/30/27.5/26/25
Sound power level		dB(A)	50/48.5/47/45/43/41/39	53/51/49/47/45/43/41	55/53/51/49/47/45/43
Unit	Net dimensions (W×H×D)	mm	710×245×770		910×245×770
	Packed dimensions (W×H×D)	mm	765×305×890		965×305×890
	Net/Gross weight	kg	18.5/21	19.5/22	24/27.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7		
	Drain pipe	mm	OD Ø25		

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in a semi-anechoic chamber.
6. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

Medium Static Pressure Duct

Model			42VD024H115003018	42VD028H115003018	42VD030H115003018
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	7.1	8	9
		kBtu/h	24.2	27.3	30.7
	Power input	W	96	102	110
Heating[2]	Capacity	kW	8	9	10
		kBtu/h	27.3	30.7	34.1
	Power input	W	96	102	110
Air flow rate[3]		m^3/h	1150/1068/986/904/822/740/660	1355/1263/1172/1080/988/897/805	1420/1323/1225/1128/1030/933/835
External static pressure[4]		Pa	30 (10~160)	40 (10~160)	40(10~160)
Sound pressure level[4]		dB(A)	35/33.5/32/30.5/29/27.5/26	37/35.5/34/32.5/31/29.5/28	37/35.5/34/32.5/31/29.5/28
Sound power level		dB(A)	58/56/54/51.5/48/47/45	59/57/55/53/51/49/47	59/57/55/53/50.5/48/46
Unit	Net dimensions (W×H×D)	mm	910×245×770	1160×245×770	
	Packed dimensions (W×H×D)	mm	965×305×890	1215×305×890	
	Net/Gross weight	kg	25/28.5	30/33.5	31/34.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9		
	Drain pipe	mm	OD Ø25		

Model			42VD040H115003018	42VD048H115003018	42VD054H115003018
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	11.2	14	16
		kBtu/h	38.2	47.8	54.6
	Power input	W	138	172	210
Heating[2]	Capacity	kW	12.5	16	18
		kBtu/h	42.7	54.6	61.4
	Power input	W	138	172	210
Air flow rate[3]		m^3/h	1950/1817/1683/1550/1417/1283/1150	2105/1971/1837/1703/1568/1434/1300	2350/2160/2015/1871/1776/1533/1400
External static pressure[4]		Pa	40 (10~160)	50 (10~160)	
Sound pressure level[4]		dB(A)	39/37/35/33/31/29/28	40/38/36/34/32/30/29	42/40/38/36/34/33/31
Sound power level		dB(A)	60/58/56.5/55/53.5/52/50	64/62/61.5/59.5/57.5/55/53	65/63/61/58.5/56.5/54/52
Unit	Net dimensions (W×H×D)	mm	1510×245×770		
	Packed dimensions (W×H×D)	mm	1565×305×890		
	Net/Gross weight	kg	37/41.5	39/43.5	39/43.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9		
	Drain pipe	mm	OD Ø25		

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in a semi-anechoic chamber.
6. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

Wall Mounted

Model			42VH005H115000108	42VH007H115000108	42VH009H115000108	42VH012H115000108
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	1.5	2.2	2.8	3.6
		kBtu/h	5.1	7.5	9.6	12.3
	Power input	W	18	21	24	27
Heating[2]	Capacity	kW	1.7	2.4	3.2	4
		kBtu/h	5.8	8.2	10.9	13.6
	Power input	W	18	21	24	27
Air flow rate[3]		m^3/h	460/440/420/400/380/360/340	500/470/440/410/390/370/340	540/510/470/430/400/370/340	580/540/500/460/420/380/340
Sound pressure level[4]		dB(A)	32/31/30/30/29/28/27	33/32/31/30/29/28/27	35/34/33/32/31/30/28	37/36/34/33/31/30/28
Sound power level		dB(A)	45/44/43/43/42/41/40	46/45/44/43/42/41/40	50/49/48/47/46/44/42	54/53/51/50/48/46/44
Unit	Net dimensions (W×H×D)	mm	750×295×265	750×295×265	750×295×265	750×295×265
	Packed dimensions (W×H×D)	mm	875×390×360	875×390×360	875×390×360	875×390×360
	Net/Gross weight	kg	9/11.5	9/11.5	10/12.5	10/12.5
Refrigerant type			R410A/R32			
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Ø6.35/Ø12.7
	Drain pipe	mm	OD Ø16	OD Ø16	OD Ø16	OD Ø16

Model			42VH016H115000108	42VH020H115000108	42VH024H115000108	42VH028H115000108
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	4.5	5.6	7.1	8
		kBtu/h	15.4	19.1	24.2	27.3
	Power input	W	30	40	50	65
Heating[2]	Capacity	kW	5	6.3	8	9
		kBtu/h	17.1	21.5	27.3	30.7
	Power input	W	30	40	50	65
Air flow rate[3]		m^3/h	720/670/620/560/510/460/410	860/780/700/620/550/480/410	1220/1120/1030/940/850/750/660	1380/1260/1140/1020/900/780/660
Sound pressure level[4]		dB(A)	37/35/33/32/31/30/29	41/39/37/35/33/31/29	44/42/40/38/36/34/32	45/43/41/39/37/35/32
Sound power level		dB(A)	54/52/50/49/48/46/44	56/54/52/50/48/46/44	58/56/54/52/50/48/46	60/57/55/53/50/48/46
Unit	Net dimensions (W×H×D)	mm	950×295×265	950×295×265	1200×295×265	1200×295×265
	Packed dimensions (W×H×D)	mm	1075×390×360	1075×390×360	1315×385×360	1315×385×360
	Net/Gross weight	kg	11.5/14	11.5/14	15/18	15/18
Refrigerant type			R410A/R32			
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Φ9.52/Φ15.9	Φ9.52/Φ15.9
	Drain pipe	mm	OD Ø16	OD Ø16	OD Ø16	OD Ø16

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 0.8m below the unit in an anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

Floor Standing F3(concealed)

Model name			42VS007H115003018	42VS009H115003018	42VS012H115003018	42VS016H115003018
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5
		kBut/h	7.5	9.6	12.3	15.4
	Input	W	35	35	40	44
Heating[2]	Capacity	kW	2.4	3.2	4.0	5.0
		kBut/h	8.2	10.9	13.7	17.1
	Input	W	35	35	41	46
External static pressure[4]		Pa	0-60			
Airflow rate[3]		m^3/h	473/464/454/449/ 439/431/426	473/464/454/449/ 439/431/426	524/503/488/471/ 450/427/408	636/611/584/557/ 533/507/483
Sound pressure level[4]		dB(A)	34.5/34/33.5/32.5/ 32/31/30.5	34.5/34/33.5/32.5/ 32/31/30.5	36.5/35.5/34.5/34/ 33/32/31	37/36/35/34/ 33/32/30
Unit	Net dimensions[5] (W×H×D)	mm	915×470×200	915×470×200	915×470×200	1133×470×200
	Packed dimensions (W×H×D)	mm	985×555×255	985×555×255	985×555×255	1205×555×255
	Net/Gross weight	kg	16.3/20.0	16.3/20.0	16.9/20.7	20.0/24.4
Refrigerant type			R410A/R32			
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7			
	Drain piping	mm	OD Ø18.5			

Model name			42VS020H115003018	42VS024H115003018	42VS028H115003018
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	5.6	7.1	8
		kBut/h	19.1	24.2	27.3
	Input	W	45	53	62
Heating[2]	Capacity	kW	6.3	8.0	9.0
		kBut/h	21.5	27.3	30.7
	Input	W	47	57	64
External static pressure[4]		Pa	0-60		
Airflow rate[3]		m^3/h	781/756/738/717/ 683/651/624	928/893/865/834/ 803/770/739	928/893/865/834/ 803/770/739
Sound pressure level[4]		dB(A)	36.5/36/35/34/ 33.5/32.5/31.5	40.5/39.5/38.5/37.5/ 36.5/36/34.5	40.5/39.5/38.5/37.5/ 36.5/36/34.5
Unit	Net dimensions[5] (W×H×D)	mm	1253×566×200		
	Packed dimensions (W×H×D)	mm	1325×650×255		
	Net/Gross weight	kg	24.3/30.0		26.1/31.8
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø9.52/Ø15.9	Ø9.52/Ø15.9
	Drain piping	mm	OD Ø18.5		

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest to the lowest, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

Floor Standing (front air intake)

Model name			42VS007H 115002018	42VS009H 115002018	42VS012H 115002018	42VS016H 115002018	42VS020H 115002018	42VS024H 115002018	42VS028H 115002018
Power supply			1-phase, 220-240V, 50/60Hz						
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8
		kBut/h	7.5	9.6	12.3	15.4	19.1	24.2	27.3
	Input	W	35	35	40	44	45	53	62
Heating[2]	Capacity	kW	2.4	3.2	4	5	6.3	8	9
		kBut/h	8.2	10.9	13.7	17.1	21.5	27.3	30.7
	Input	W	35	35	41	46	47	57	64
External static pressure[4]		Pa(F4)	0-10						
Airflow rate[3]		m^3/h(F4)	507/490/482/466/ 449/450/435		532/512/501/483/ 466/435/414	689/663/639/608/ 575/560/526	934/904/888/860/ 821/786/764	1054/1011/992/955/ 924/889/841	
Sound pressure level[4]		dB(A)(F4)	36/35/34.5/34/ 33/32.5/32		38/37/36/35/ 34/33/32	43/42/41/40/ 39/38/37	41.5/41/40/39/ 38/37/36	46/45.5/45/44/ 43/42/41	
Unit	Net dimensions[5] (W×H×D)	mm(F4)	1020×495×200		1020×495×200	1240×495×200	1360×591×200		
	Packed dimensions (W×H×D)	mm(F4)	1125×595×285		1125×595×285	1345×595×285	1465×695×285		
	Net/Gross weight	kg(F4)	21.1/26.8		21.9/27.6	26.3/32.4	32.1/39.4	33.3/41.1	33.3/41.1
Refrigerant type			R410A/R32						
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7					Ø9.52/Ø15.9	
	Drain piping	mm	OD Ø18.5						

Floor Standing underside air intake

Model name			42VS007H 115001018	42VS009H 115001018	42VS012H 115001018	42VS016H 115001018	42VS020H 115001018	42VS024H 115001018	42VS028H 115001018
Power supply			1-phase, 220-240V, 50/60Hz						
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8
		kBut/h	7.5	9.6	12.3	15.4	19.1	24.2	27.3
	Input	W	35	35	40	44	45	53	62
Heating[2]	Capacity	kW	2.4	3.2	4	5	6.3	8	9
		kBut/h	8.2	10.9	13.7	17.1	21.5	27.3	30.7
	Input	W	35	35	41	46	47	57	64
External static pressure[4]		Pa(F5)	0-10						
Airflow rate[3]		m^3/h(F5)	498/486/475/464/ 453/441/430		508/491/474/458/ 441/424/407	692/665/637/610/ 582/555/528	811/785/759/732/ 706/680/653	930/895/860/825/ 790/755/721	
Sound pressure level[4]		dB(A)(F5)	32.5/32/31.5/31/ 30.5/30/29		35/34/33/32/ 31/30/29	38/37/36/35/ 34/32.5/31.5	35/34.5/34/33/ 32.5/32/31	39.5/39/38/37/ 36/35/34	
Unit	Net dimensions[5] (W×H×D)	mm(F5)	1020×495×200		1020×495×200	1240×495×200	1360×591×200		
	Packed dimensions (W×H×D)	mm(F5)	1125×595×285		1125×595×285	1345×595×285	1465×695×285		
	Net/Gross weight	kg(F5)	21.1/26.8		21.9/27.6	26.3/32.4	32.1/39.4	33.3/41.1	33.3/41.1
Refrigerant type			R410A/R32						
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7					Ø9.52/Ø15.9	
	Drain piping	mm	OD Ø18.5						

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest to the lowest, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

One-way Cassette

Model name			40VZ006H11500018	40VZ007H11500018	40VZ009H11500018	40VZ012H11500018	40VZ016H11500018	40VZ020H11500018	40VZ024H11500018
Power supply			1-phase, 220-240V, 50/60Hz						
Cooling[1]	Capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
		kBut/h	6.1	7.5	9.6	12.3	15.4	19.1	24.2
	Input	W	25	25	30	30	40	48	60
Heating[2]	Capacity	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
		kBut/h	7.5	8.9	10.9	13.6	17.1	21.5	27.3
	Input	W	25	25	30	30	40	48	60
Airflow rate[3]		m^3/h	380/355/330/300/ 286/263/240		460/440/410/380/ 355/330/300		693/662/638/600/ 556/510/476	792/763/728/688/ 643/589/549	933/873/815/749/ 689/637/592
Sound pressure level[4]		dB(A)	30/28/27/26/ 25/24/22		37/36/35/34/ 32/31/30	38/37/35/34/ 32/31/30	39/37/36/35/ 34/32/31	41/39/38/37/ 36/35/33	43/41/40/39/ 37/36/35
indoor unit	Net dimensions[5] (W×H×D)	mm	1054×153×428				1275×189×452		
	Net dimensions(no water tray) (W×H×D)	mm	1054×141×428				1275×176×452		
	Packed dimensions (W×H×D)	mm	1155×245×490				1370×295×505		
	Net/Gross weight	kg	11.5/14.5		11.8/14.8		15.8/20.2		16.9/21.4
Panel	Net dimensions (W×H×D)	mm	1180×25×465				1350×25×505		
	Packed dimensions (W×H×D)	mm	1232×107×517				1410×95×560		
	Net/Gross weight	kg	3.5/4.7				4/5.6		
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7						Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25						

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
6. These products are under development and the specifications are always subject to change.

Two-way Cassette

Model name			40VT007H11500018	40VT009H11500018	40VT012H11500018	40VT016H11500018	40VT020H11500018	40VT024H11500018
Power supply			1-phase, 220-240V, 50/60Hz					
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
		kBut/h	7.5	9.6	12.3	15.4	19.1	24.2
	Input	W	35	40	40	50	69	98
Heating[2]	Capacity	kW	2.6	3.2	4	5	6.3	8
		kBut/h	8.9	10.9	13.6	17.1	21.5	27.3
	Input	W	35	40	40	50	69	98
Airflow rate[3]		m^3/h	654/612/571/530/ 488/449/410	654/612/571/530/ 488/449/410	725/679/641/591/ 554/509/458	850/792/731/670/ 631/592/550	980/925/855/800/ 755/702/670	1200/1115/1068/1000/ 921/808/770
Sound pressure level[4]		dB(A)	33/31/30/29/ 27/25/24	33/31/30/29/ 27/25/24	35/33/32/30/ 29/27/25	37/36/35/34/ 32/31/30	39/37/36/35/ 33/31/30	44/42/41/40/ 38/36/34
indoor unit	Net dimensions[5] (W×H×D)	mm	1259×299×591					
	Packed dimensions (W×H×D)	mm	1355×400×675					
	Net/Gross weight	kg	29.7/36.3			31.6/38.2		
Panel	Net dimensions (W×H×D)	mm	1430×53×680					
	Packed dimensions (W×H×D)	mm	1525×130×765					
	Net/Gross weight	kg	11/15			11/15		
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7					Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø32					

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

High Static Pressure Duct

Model name			42VD020H115011018	42VD024H115011018	42VD028H115011018	42VD030H115011018
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	5.6	7.1	8	9
		kBut/h	19.1	24.2	27.3	30.7
	Input	W	159	159	159	196
Heating[2]	Capacity	kW	6.3	8	9	10
		kBut/h	21.5	27.3	30.7	34.1
	Input	W	159	159	159	196
Airflow rate[3]		m^3/h	1360/1281/1201/1122/ 1043/963/884	1360/1281/1201/1122/ 1043/963/884	1360/1281/1201/1122/ 1043/963/884	1500/1413/1325/1238/ 1150/1063/975
External static pressure[4]		Pa	80(0~250)			
Sound pressure level[5]		dB(A)	39/37.5/36/34.5/ 33/31.5/30	39/37.5/36/34.5/ 33/31.5/30	39/37.5/36/34.5/ 33/31.5/30	40/38.5/37/35.5/ 34/32.5/31
Unit	Net dimensions[6] (W×H×D)	mm	1135×299×770			
	Packed dimensions (W×H×D)	mm	1215×359×890			
	Net/Gross weight	kg	35/38.5	35/38.5	35/38.5	35/38.5
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø9.52/Ø15.9		
	Drain pipe	mm	OD Ø25			

Model name			42VD040H115011018	42VD042H115011018	42VD048H115011018	42VD054H115011018
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	11.2	12.5	14	16
		kBut/h	38.2	42.7	47.8	54.6
	Input	W	248	252	284	339
Heating[2]	Capacity	kW	12.5	14	16	18
		kBut/h	42.7	47.8	54.6	61.4
	Input	W	248	252	284	339
Airflow rate[3]		m^3/h	2140/2015/1890/1766/ 1641/1516/1391	2150/2025/1899/1774/ 1649/1523/1398	2400/2260/2120/1980/ 1840/1700/1560	2600/2448/2297/2145/ 1993/1842/1690
External static pressure[4]		Pa	80(0~250)	100(0~250)		
Sound pressure level[5]		dB(A)	41/39.5/38/36.5/ 35/33.5/32	41/39.7/38.3/37/ 35.7/34.3/33	43/41.5/40/38.5/ 37/35.5/34	44/42.5/41/39.5/ 38/36.5/35
Unit	Net dimensions[6] (W×H×D)	mm	1485×299×770			
	Packed dimensions (W×H×D)	mm	1565×359×890			
	Net/Gross weight	kg	44.5/48.5	46.5/50.5	46.5/50.5	46.5/50.5
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9			
	Drain pipe	mm	OD Ø25			

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a anechoic chamber.
6. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
7. All specifications are measured at standard external static pressure.

Model name			42VD070H115011018	42VD076H115011018	42VD086H115011018	42VD096H115011018
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	20	22.4	25.2	28
		kBut/h	68.3	76.5	86.0	95.6
	Input	W	780	780	780	780
Heating[2]	Capacity	kW	22.5	25	26	31.5
		kBut/h	76.8	85.3	88.7	107.5
	Input	W	780	780	780	780
Airflow rate[3]		m^3/h	4700/4387/4073/3760/3447/3133/2820	4700/4387/4073/3760/3447/3133/2820	4700/4387/4073/3760/3447/3133/2820	4700/4387/4073/3760/3447/3133/2820
External static pressure[4]		Pa	200(0-400)			
Sound pressure level[5]		dB(A)	51/50/48/46/44/43/42	51/50/48/46/44/43/42	51/50/48/46/44/43/42	51/50/48/46/44/43/42
Unit	Net dimensions[6] (W×H×D)	mm	1300×580×900			
	Packed dimensions (W×H×D)	mm	1530×730×1060			
	Net/Gross weight	kg	125/150			
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø19.1		Ø12.7/Ø22.2	
	Drain pipe	mm	OD Ø32			

Model name			42VD120H115011018	42VD140H115011018	42VD160H115011018	42VD190H115011018
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	33.5	40	45	56
		kBut/h	114.3	136.5	153.6	191.1
	Input	W	810	1850	1850	2030
Heating[2]	Capacity	kW	38	45	56	63
		kBut/h	129.7	153.6	191.1	215.0
	Input	W	810	1850	1850	2030
Airflow rate[3]		m^3/h	4700/4387/4073/3760/3447/3133/2820	7500/7000/6500/6000/5500/5000/4500	7500/7000/6500/6000/5500/5000/4500	8400/7840/7280/6720/6160/5600/5040
External static pressure[4]		Pa	200(0-400)	300(0-400)		
Sound pressure level[5]		dB(A)	52/51/49/48/46/44/43	58/56/54/52/50/49/48	58/56/54/52/50/49/48	59/58/56/54/53/51/49
Unit	Net dimensions[6] (W×H×D)	mm	1300×580×900	1850×580×900		
	Packed dimensions (W×H×D)	mm	1530×725×1060	2080×730×1060		
	Net/Gross weight	kg	128/153	166/204	166/204	170/208
Pipe connections	Liquid/Gas pipe	mm	Ø12.7/Ø25.4		Ø15.9/Ø28.6	
	Drain pipe	mm	OD Ø32			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a anechoic chamber.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
7. All specifications are measured at standard external static pressure

Specifications

Ceiling&Floor

Model name			42VF012H115000018	42VF016H115000018	42VF020H115000018	42VF024H115000018	42VF028H115000018
Power supply			1-phase, 220-240V, 50/60Hz				
Cooling[1]	Capacity	kW	3.6	4.5	5.6	7.1	8
		kBut/h	12.3	15.4	19.1	24.2	27.3
	Input	W	16	24	40	42	56
Heating[2]	Capacity	kW	4	5	6.3	8	9
		kBut/h	13.7	17.1	21.5	27.3	30.7
	Input	W	16	24	40	42	56
Airflow rate[3]		m^3/h	564/539/514/492/467/445/424	712/674/637/603/565/531/500	927/883/840/794/751/707/665	1128/1062/1024/926/860/791/729	1300/1218/1138/1057/982/904/824
Sound pressure level[4]		dB(A)	32/30/29/28/27/26/25	36/35/34/33/32/31/30	43/41/40/38/36/34/33	43/40/39/37/35/34/33	45/44/42/40/38/36/34
Sound power level		dB(A)	43/42/40/39/38/38/37	47/45/45/43/42/41/40	54/53/51/50/48/47/45	54/53/52/51/49/48/48	55/53/51/50/49/46/44
Unit	Net dimensions[5] (W×H×D)	mm	1069×674×234			1284×674×234	
	Packed dimensions (W×H×D)	mm	1190×755×313			1405×755×323	
	Net/Gross weight	kg	24.7/29.5	24.7/29.5	24.7/29.5	29.8/34.8	29.8/34.8
Refrigerant type			R410A/R32				
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7			Ø9.52/Ø15.9	
	Drain pipe	mm	OD Ø25				

Model name			42VF030H115000018	42VF034H115000018	42VF040H115000018	42VF042H115000018	42VF048H115000018
Power supply			1-phase, 220-240V, 50/60Hz				
Cooling[1]	Capacity	kW	9	10	11.2	12.5	14
		kBut/h	30.7	34.1	38.2	42.7	47.8
	Input	W	75	50	65	95	140
Heating[2]	Capacity	kW	10	11.2	12.5	14	16
		kBut/h	34.1	38.2	42.7	47.8	54.6
	Input	W	75	50	65	95	140
Airflow rate[3]		m^3/h	1480/1397/1302/1218/1138/1056/979	1497/1469/1296/1200/1104/1015/918	1648/1530/1469/1292/1178/1067/956	2012/1879/1772/1649/1531/1469/1285	2206/2070/1937/1810/1677/1516/1402
Sound pressure level[4]		dB(A)	48/47/46/44/42/40/37	42/40/39/37/35/33/32	44/42/41/39/37/35/33	49/48/46/44/42/40/38	51.5/50/48/46/44/42/40
Sound power level		dB(A)	58/57/55/54/52/50/49	54/53/51/50/48/46/44	56/54/53/51/49/47/45	60/59/58/56/54/53/51	63/62/60/58/56/54/53
Unit	Net dimensions[5] (W×H×D)	mm	1284×674×234	1649×674×234			
	Packed dimensions (W×H×D)	mm	1405×755×323	1770×755×323			
	Net/Gross weight	kg	29.8/34.8	36.4/42.7	36.4/42.7	36.4/42.7	36.4/42.7
Refrigerant type			R410A/R32				
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9				
	Drain pipe	mm	OD Ø25				

Notes:

1.Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2.Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3.Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4.Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in a semi-anechoic chamber.
5.The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

Specifications

Fresh Air Processing

Model name			42VD070H 115211018	42VD076H 115211018	42VD086H 115211018	42VD096H 115211018	42VD120H 115211018	42VD140H 115211018	42VD160H 115211018	42VD190H 115211018
Power supply			1-phase, 220-240V, 50/60Hz							
Cooling[1]	Capacity	kW	20.0	22.4	25.2	28	33.5	40	45	56
		kBut/h	68.3	76.5	86.0	95.6	114.3	136.5	153.6	191.1
	Input	W	425	425	480	540	550	900	900	1330
Heating[2]	Capacity	kW	12	13.7	16	18	22	26.5	27.8	39
		kBut/h	41.0	46.8	54.6	61.4	75.1	90.4	94.9	133.1
	Input	W	425	425	480	540	550	900	900	1330
Airflow rate[3]		m^3/h	2500/2417/2333/ 2250/2167/ 2083/2000	2500/2417/2333/ 2250/2167/ 2083/2000	2800/2667/2533/ 2400/2267/ 2133/2000	3000/2833/2667/ 2500/2333/ 2167/2000	3200/3000/2800/ 2600/2400/ 2200/2000	4500/4217/3933/ 3650/3367/ 3083/2800	4500/4217/3933/ 3650/3367/ 3083/2800	6200/5833/5467/ 5100/4733/ 4367/4000
External static pressure[4]		Pa	220(0-400)					300(0-400)		
Sound pressure level[5]		dB(A)	47/46/46/45/ 44/43/42	47/46/46/45/ 44/43/42	48/47/47/46/ 45/44/43	49/48/48/47/ 46/45/44	51/50/49/48/ 47/46/45	53/52/52/51/ 50/49/48	53/52/52/51/ 50/49/48	56/55/55/54/ 53/52/51
Unit	Net dimensions[6] (W×H×D)	mm	1300×580×1050					1850×580×1050		
	Packed dimensions (W×H×D)	mm	1530×730×1060					2080×730×1060		
	Net/Gross weight	kg	117/142	117/142	117/142	117/142	121/146	161/198	161/198	164/201
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø19.1		Ø12.7/Ø22.2		Ø12.7/Ø25.4		Ø16/Ø28.6	
	Drain pipe	mm	OD Ø32							

Notes:

1. Indoor temperature 33°C DB, 28°C WB; outdoor temperature 33°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 0°C DB; outdoor temperature 0°C DB, -2.9°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in a semi-anechoic chamber.
6. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
7. All specifications are measured at standard external static pressure.
8. Fresh air processing units are- not allowed to be used in the same VRF system as other series of indoor units.
9. When there are only fresh air processing units in the system, the combination ratio is 50-100%.

Specifications

Small Airflow Rate Fresh Air Processing

Model name			42VD030H115211018-S	42VD048H115211018-S	42VD054H115211018-S	42VD076H115211018-S	42VD096H115211018-S
Power supply			1-phase, 220-240V, 50/60Hz				
Cooling[1]	Capacity	kW	9.0	14.0	16.0	22.4	28.0
		kBut/h	30.7	47.8	54.6	76.5	95.6
	Input	W	80	165	185	320	400
Heating[2]	Capacity	kW	8.1	12.5	14.0	20.0	25.0
		kBut/h	27.6	42.7	47.8	68.3	85.3
	Input	W	80	165	185	320	400
Airflow rate[3]		m^3/h	690/633/575/518/ 460/403/345	1100/1008/917/ 825/733/642/550	1230/1128/1025/ 923/820/718/615	1740/1595/1450/ 1305/1160/1015/870	2160/1980/1800/ 1620/1440/1260/1080
External static pressure[4]		Pa	100 (0-300)	150 (0-300)	150 (0-300)	200 (0-300)	200 (0-300)
Sound pressure level[5]		dB(A)	39/37.5/36/34/ 32.5/30.5/29	44.5/42.5/40/37/ 35/33/32	44.5/43/41/38/ 36/34/32.5	49/47/45/43/ 40/38/36	51/49/47/44/ 42/39/37
Unit	Net dimensions[6] (W×H×D)	mm	1095x310x773	1095x310x773	1095x310x773	1445x310x773	1445x310x773
	Packed dimensions (W×H×D)	mm	1215x360x885	1215x360x885	1215x360x885	1645x360x885	1645x360x885
	Net/Gross weight	kg	37/41.5	40/43.5	40/43.5	54/59	54/59
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø19.1	Ø12.7/Ø22.2
	Drain pipe	mm	OD Ø25				

Notes:

1. Indoor temperature 33°C DB, 28°C WB; outdoor temperature 33°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 0°C DB; outdoor temperature 0°C DB, -2.9°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in a semi-anechoic chamber.
6. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
7. All specifications are measured at standard external static pressure.
8. When fresh air processing units are installed together with standard indoor units, the total capacity of the fresh air processing units must not exceed 30% of the total capacity of the outdoor units and the total combination ratio must not exceed 100%.
9. When there are only fresh air processing units in the system, the combination ratio is 50-100%.

Specifications

New One-Way Cassette

Model name			40VZ006H11500018(A)	40VZ007H11500018(A)	40VZ009H11500018(A)	40VZ012H11500018(A)
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	1.8	2.2	2.8	3.6
		kBtu/h	6.1	7.5	9.6	12.3
	Power Input	W	15	19	27	29
Heating[2]	Capacity	kW	2.0	2.5	3.2	4.0
		kBtu/h	7.5	8.9	10.9	13.6
	Power Input	W	15	19	27	29
Airflow rate[3]		m^3/h	300/283/266/ 250/233/216/200	400/375/350/ 325/300/275/250	550/516/483/ 450/416/383/350	550/516/483/ 450/416/383/350
Sound pressure leve[4]		dB(A)	28/27/26/25/24/23/23	32/30/29/28/27/26/25	33/31/30/29/27/26/25	36/34/33/32/30/29/28
Sound power level		dB(A)	35/34/33/32/31/30/29	43/42/39/37/35/33/31	45/44/43/41/39/37/35	48/46/44/42/40/38/36
Indoor unit	Net dimensions[5] (W×H×D)	mm	700×130×425	700×130×425	900×130×425	900×130×425
	Packed dimensions (W×H×D)	mm	880×225×510	880×225×510	1080×225×510	1080×225×510
	Net/Gross weight	mm	9.6/11.9	9.6/11.9	11.2/13.8	12.2/14.7
Panel	Net dimensions (W×H×D)	mm	980×64×475	980×64×475	1180×64×475	1180×64×475
	Packed dimensions (W×H×D)	mm	1070×100×560	1070×100×560	1270×100×560	1270×100×560
	Net/Gross weight	kg	2.4/3.7	2.4/3.7	3/4.6	3/4.6
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25

Model name			40VZ016H11500018(A)	40VZ020H11500018(A)	40VZ024H11500018(A)
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15.4	19.1	24.2
	Power Input	W	30	40	52
Heating[2]	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17.1	21.5	27.3
	Power Input	W	30	40	52
Airflow rate[3]		m^3/h	850/791/733/675/616/558/500	1000/941/883/825/766/708/650	1050/1000/950/900/850/800/750
Sound pressure leve[4]		dB(A)	39/37/36/35/34/33/32	45/43/42/40/39/37/36	47/45/44/43/42/41/40
Sound power level		dB(A)	49/47/45/43/41/39/37	55/53/51/49/47/45/43	56/55/54/52/50/48/46
Main body	Net dimensions[5] (W×H×D)	mm	1200×130×425	1200×130×425	1200×130×425
	Packed dimensions (W×H×D)	mm	1280×225×510	1280×225×510	1280×225×510
	Net/Gross weight	kg	14.3/17.7	15.5/18.8	15.5/18.8
Panel	Net dimensions (W×H×D)	mm	1480×64×475	1480×64×475	1480×64×475
	Packed dimensions (W×H×D)	mm	1570×100×560	1570×100×560	1570×100×560
	Net/Gross weight	kg	3.8/5.5	3.8/5.5	3.8/5.5
Refrigerant type			R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

Free Standing Units(Side Discharge)

Model name			42VS086H 115002018	42VS096H 115002018	42VS120H 115002018	42VS160H 115002018	42VS190H 115002018
Power supply			1-phase, 220-240V, 50/60Hz				
Cooling1	Capacity	kW	25.2	28	33.5	45	56
		kBtu/h	86.0	95.6	114.3	153.6	191.1
	Power Input	W	335	335	350	690	860
Heating2	Capacity	W	26	31.5	38	56	63
		kBtu/h	88.7	107.5	129.7	191.1	215.0
	Power Input	W	335	335	350	690	860
Sound pressure leve4		dB(A)	56.0/54.6/53.3/ 52.6/51.5/ 50.7/49.1	56.0/54.6/53.3/ 52.6/51.5/ 50.7/49.1	52/50.8/49.7/ 48.7/47/ 44.5/43.1	57.2/55.9/54.4/ 53.4/52.3/ 51.0/49.4	58.7/57.4/56.4/ 55.2/54.2/ 53.1/52.1
Unit	Net dimensions[5] (W×H×D)	mm	615x1810x1150	615x1810x1150	615x1810x1150	615x1810x1150	615x1810x1600
	Packed dimensions (W×H×D)	mm	730x2035x1260	730x2035x1260	730x2035x1260	730x2035x1260	730x2035x1710
	Net/Gross weight	kg	153/167.5	153/167.5	158/172.5	163/177.5	209/227.5
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2	Φ12.7/Φ22.2	Φ12.7/Φ25.4	Φ15.9/Φ28.6	Φ15.9/Φ28.6
	Drain pipe	mm	32	32	32	32	32

Free Standing Units(Top Discharge)

Model name			42VS086H 115001018	42VS096H 115001018	42VS120H 115001018	42VS160H 115001018	42VS190H 115001018
Power supply			1-phase, 220-240V, 50/60Hz				
Cooling1	Capacity	kW	25.2	28	33.5	45	56
		kBtu/h	86.0	95.6	114.3	153.6	191.1
	Power Input	W	670	670	745	1210	1465
Heating2	Capacity	W	26	31.5	38	56	63
		kBtu/h	88.7	107.5	129.7	191.1	215.0
	Power Input	W	670	670	745	1210	1465
External static pressure		Pa	150(0-400)	150(0-400)	150(0-400)	150(0-400)	150(0-400)
Sound pressure leve4		dB(A)	59/57.6/56.5/ 54.9/53.5/ 52/50.6	59/57.6/56.5/ 54.9/53.5/ 52/50.6	55.7/54.5/53.1/ 51.8/50.1/ 48.5/48.2	59.5/58.4/57.0/ 55.6/54.3/ 52.7/51.0	61.0/59.8/58.5/ 57.1/55.6/ 53.9/52.1
Unit	Net dimensions[5] (W×H×D)	mm	615x1810x1150	615x1810x1150	615x1810x1150	615x1810x1150	615x1810x1600
	Packed dimensions (W×H×D)	mm	730x2035x1260	730x2035x1260	730x2035x1260	730x2035x1710	730x2035x1710
	Net/Gross weight	kg	153/168.5	153/168.5	160/173.5	204.5/222.5	211/229
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2	Φ12.7/Φ22.2	Φ12.7/Φ25.4	Φ15.9/Φ28.6	Φ15.9/Φ28.6
	Drain pipe	mm	32	32	32	32	32

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Specifications

High Static Pressure Duct(section)

Model name			42VD060H115011018(S)	42VD070H115011018(S)	42VD076H115011018(S)
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	18	20	22.4
		kBtu/h	61.4	68.2	76.4
	Input	W	520	560	600
Heating[2]	Capacity	kW	20	23.5	25
		kBtu/h	68.24	80.19	85.30
	Input	W	520	560	600
Airflow rate[3]		m^3/h	4100/3872/3644/3689 /2961/2733	4250/4014/3778/3542 /3306/3070/2833	4400/4156/3911/3667 /3422/3178/2933
External static pressuree[4]		pa	150(50~280)	150(50~280)	150(50~280)
Sound pressure leve[5]		dB(A)	47/45/43/41/39/37/36	47.5/46/44/42/40/38/37	49/47/45/43/41/39/38
Sound power level		dB(A)	67/65/63/61/59/57/56.5	67.5/66/64/62/60/58/57	68/66/64/62/60/60.5/59/58
Unit	Net dimensions[6] (W×H×D)	mm	1300x477x910	1300x477x910	1300x477x910
	Packed dimensions (W×H×D)	mm	1580x650x1090	1580x650x1090	1580x650x1090
	Net/Gross weight	kg	79.5/117.5	79.5/117.5	82/120
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ19	Φ9.52/Φ19	Φ9.52/Φ19
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32

Model name			42VD086H115011018(S)	42VD096H115011018(S)
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	25.2	28
		kBtu/h	86.0	95.5
	Input	W	700	840
Heating[2]	Capacity	kW	26	31.5
		kBtu/h	88.72	107.48
	Input	W	700	840
Airflow rate[3]		m^3/h	4800/4533/4267/4000 /3733/3467/3200	5200/4911/4622/4333 /4044/3756/3467
External static pressuree[4]		pa	150(50~280)	150(50~280)
Sound pressure leve[5]		dB(A)	50/48/46/44/42.5/41/40	51/49/47/45/43.5/42/41
Sound power level		dB(A)	69.5/68/66/64/62/60/59	70.5/69/67/65/63/61/60
Unit	Net dimensions[6] (W×H×D)	mm	1300x477x910	1300x477x910
	Packed dimensions (W×H×D)	mm	1580x650x1090	1580x650x1090
	Net/Gross weight	kg	82/120	82/120
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22	Φ12.7/Φ22
	Drain pipe	mm	OD Φ32	OD Φ32

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
6. Unit body dimensions given are the largest external dimensions of the unit, no including hanger attachments.

Specifications

HRV

Model name			HRV-D200(C)	HRV-D300(C)	HRV-D400(C)	HRV-D500(C)
Power supply		Ph-V-Hz	1-phase, 220-240V-50/60Hz			
Input power (H/M/L)(standard G4)		W	70/45/25	100/55/35	110/70/40	150/95/50
Input power (H/M/L)(F7+M5)		W	80/40/25	100/55/35	110/70/40	150/95/50
Nominal Temperature Efficiency (standard G4) (H/M/L)		%	79.5/81.1/83.5	75.5/78.8/82.5	77.7/79.0/81.3	80.6/82.2/85.5
Nominal Enthalpy Efficiency (standard G4) (H/M/L)		%	75.0/77.5/79.6	72.1/75.0/79.3	73.5/75.3/78.0	74.0/76.6/80.5
Nominal Temperature Efficiency (F7+M5) (H/M/L)		%	81.8/85.4/87.5	80.4/81.8/83.5	79.2/81.1/83.3	77.2/79.4/82.5
Nominal Enthalpy Efficiency (F7+M5) (H/M/L)		%	81.2/83.1/85.0	79.4/81.2/84.0	79.6/81.8/84.2	72.3/75.6/78.6
Current		A	0.64	0.84	0.97	1.2
Indoor external static pressure (H speed+ standard G4)		Pa	100	90	100	90
Fresh air external static pressure (H speed +F7+M5)		Pa	75	70	70	65
Discharge air external static pressure (H speed +F7+M5)		Pa	100	110	110	110
Nominal air flow		m^3/h	200	300	400	500
Sound Pressure (H/M/L)		dB(A)	33/29.5/25.5	36.5/33.5/30	36.5/32/28	36/30.5/24.5
Sound Power		dB	45	48	48	50
Net dimension[1] (L×W×H)		mm	1195×784×272	1195×898×272	1276×1189×272	1311×1090×390
Packing size (L×W×H)		mm	1275×880×420	1275×994×420	1360×1284×420	1390×1244×540
Net/Gross weight		kg	51/68	57/74	72/92	62/85
Power supply wire	Wire qty.		3	3	3	3
	Code wire cross- section	mm^2	2.5	2.5	2.5	2.5
Controller			Wired controller, Centralized controller, BMS gateway			
Fresh air	Fresh Air Diameter	mm	Ø144	Ø144	Ø198	Ø244
	Air drop	Pa	52	179	218	357

Model name			HRV-D800(C)	HRV-D1000(C)	HRV-D1500(C)	HRV-D2000(C)
Power supply		Ph-V-Hz	1-phase, 220-240V-50/60Hz			
Input power (H/M/L)(standard G4)		W	320/170/80	380/210/100	680/320/200	950/500/230
Input power (H/M/L)(F7+M5)		W	320/170/80	420/230/100	680/320/200	950/500/230
Nominal Temperature Efficiency (standard G4) (H/M/L)		%	78.7/82.1/86.8	82.8/84.0/87.4	75.5/78.6/80.2	77.2/79.5/83.4
Nominal Enthalpy Efficiency (standard G4) (H/M/L)		%	72.3/75.4/79.0	76.0/76.0/80.1	69.4/71.2/74.8	74.7/77.0/80.6
Nominal Temperature Efficiency (F7+M5) (H/M/L)		%	74.9/77.1/80.8	75.4/78.0/81.4	83.8/84.6/86.2	78.8/80.5/83.4
Nominal Enthalpy Efficiency (F7+M5) (H/M/L)		%	71.1/74.4/78.0	67.3/71.1/75.0	74.6/76.2/78.8	71.1/75.0/79.6
Current		A	2.4	2.9	3.8	5.7
Indoor external static pressure (H speed+ standard G4)		Pa	140	160	180	200
Fresh air external static pressure (H speed +F7+M5)		Pa	100	110	150	160
Discharge air external static pressure (H speed +F7+M5)		Pa	155	145	180	180
Nominal air flow		m^3/h	800	1000	1500	2000
Sound Pressure (H/M/L)		dB(A)	42/39/34	44/39/33.5	51.5/46.5/41.5	53/48.5/42.5
Sound Power		dB	55	54	69	70
Net dimension[1] (L×W×H)		mm	1311×1270×390	1311×1510×390	1740×1344×615	1811×1545×685
Packing size (L×W×H)		mm	1390×1424×540	1390×1670×540	1830×1520×770	1900×1720×845
Net/Gross weight		kg	77/101	85/112	168/200	195/235
Power supply wire	Wire qty.		3	3	3	3
	Code wire cross- section	mm^2	2.5	2.5	2.5	2.5
Controller			Wired controller, Centralized controller, BMS gateway			
Fresh air	Fresh Air Diameter	mm	Ø244	Ø244	346×326	346×326
	Air drop	Pa	357	384	253	322

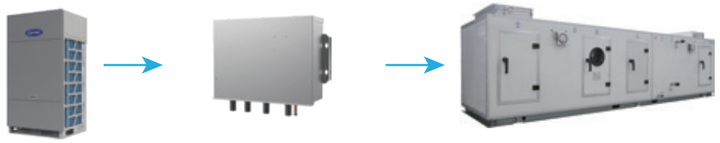
Note:

1. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

VRF AHU Control Box

High Efficiency

AHU kit facilitates raising the EER/COP of the complete AHU system.



Wide Capacity Range

Four kits can be used in parallel, giving an overall capacity range of 0.8-60HP.

AHUKZ-00F
0.8-3HP

AHUKZ-01F
3.2-6HP

AHUKZ-02F
8-12HP

AHUKZ-03F
14-20HP

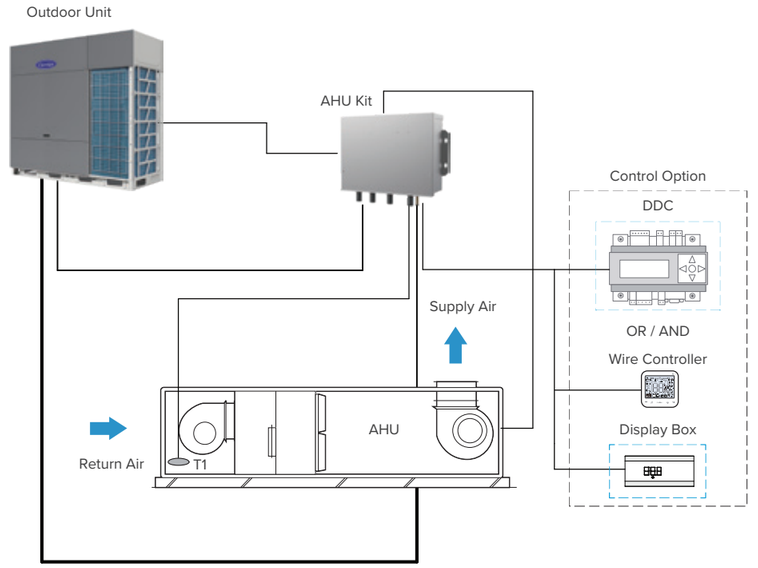
AHUKZ-04F
20-60HP

Compatible with All VRF Systems

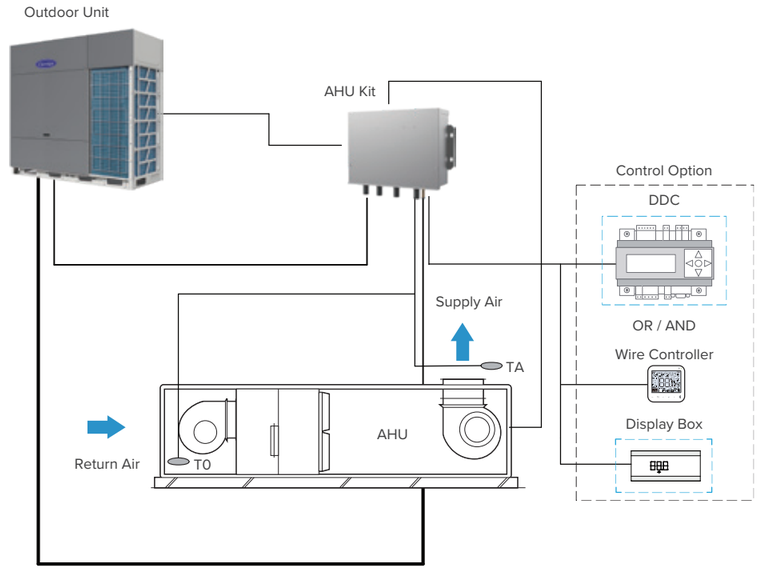
AHU kits are compatible with all Carrier VRF outdoor units and can be used together with all types of Carrier VRF indoor units.

Application(AHU kit & Controller Module)

AHU Kit + Return Air Control



AHU Kit + Supply Air Control

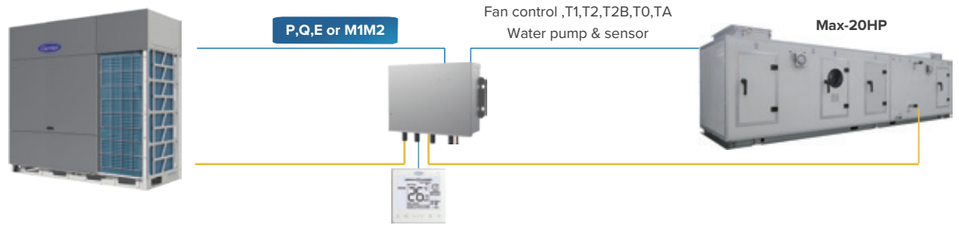


T1: AHU indoor return air temperature sensor
T0: AHU outdoor fresh air temperature sensor
TA: AHU supply air temperature sensor

Note: For detailed installation and use requirements, please read the installation instructions.

VRF AHU Control Box

Single AHU Control Box Connection

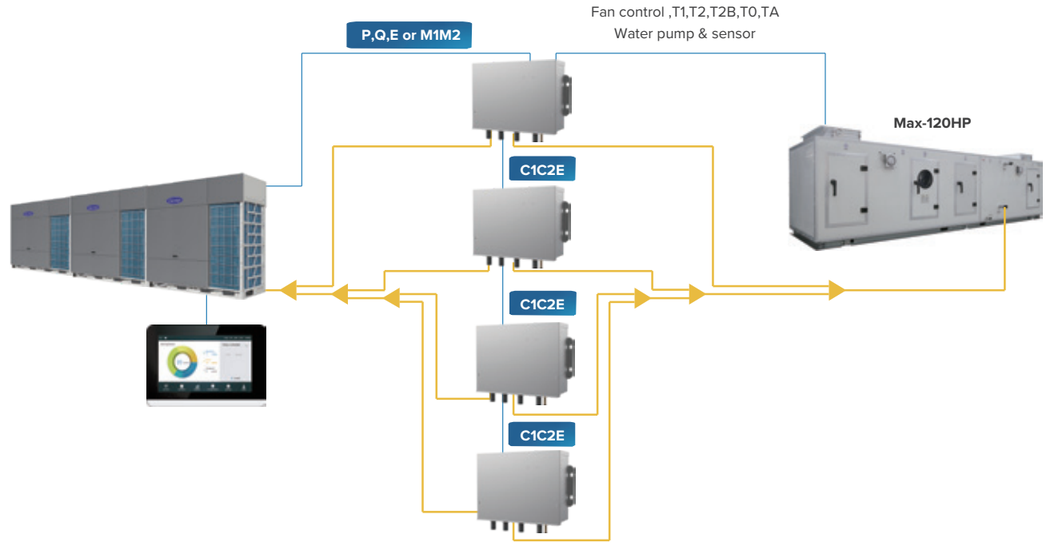


Note: For detailed installation and use requirements, please read the installation instructions.

Specifications

Model name	AHUKZ-00F	AHUKZ-01F	AHUKZ-02F	AHUKZ-03F	AHUKZ-04F
Capacity A (kW)	2.2≤A<9	9≤A≤20	20<A≤36	36<A≤56	56<A<168
Power supply	220-240V~50/60Hz				
Liquid pipe (in/out) (mm)	Φ8/Φ8	Φ8/Φ8	Φ12.7/Φ12.7	Φ12.7/Φ12.7	Φ12.7/Φ12.7
Dimension (WxHxD) (mm)	341x133x395				
Weight (kg)	6.2	6.2	6.4	6.4	6.6
Operation range (cooling on coil) (oC)	17-43				
Operation range (heating on coil) (oC)	10-30				
Applicable outdoor units	Heat pump / heat recovery / cooling only				

Multi AHU Control Boxes Connection

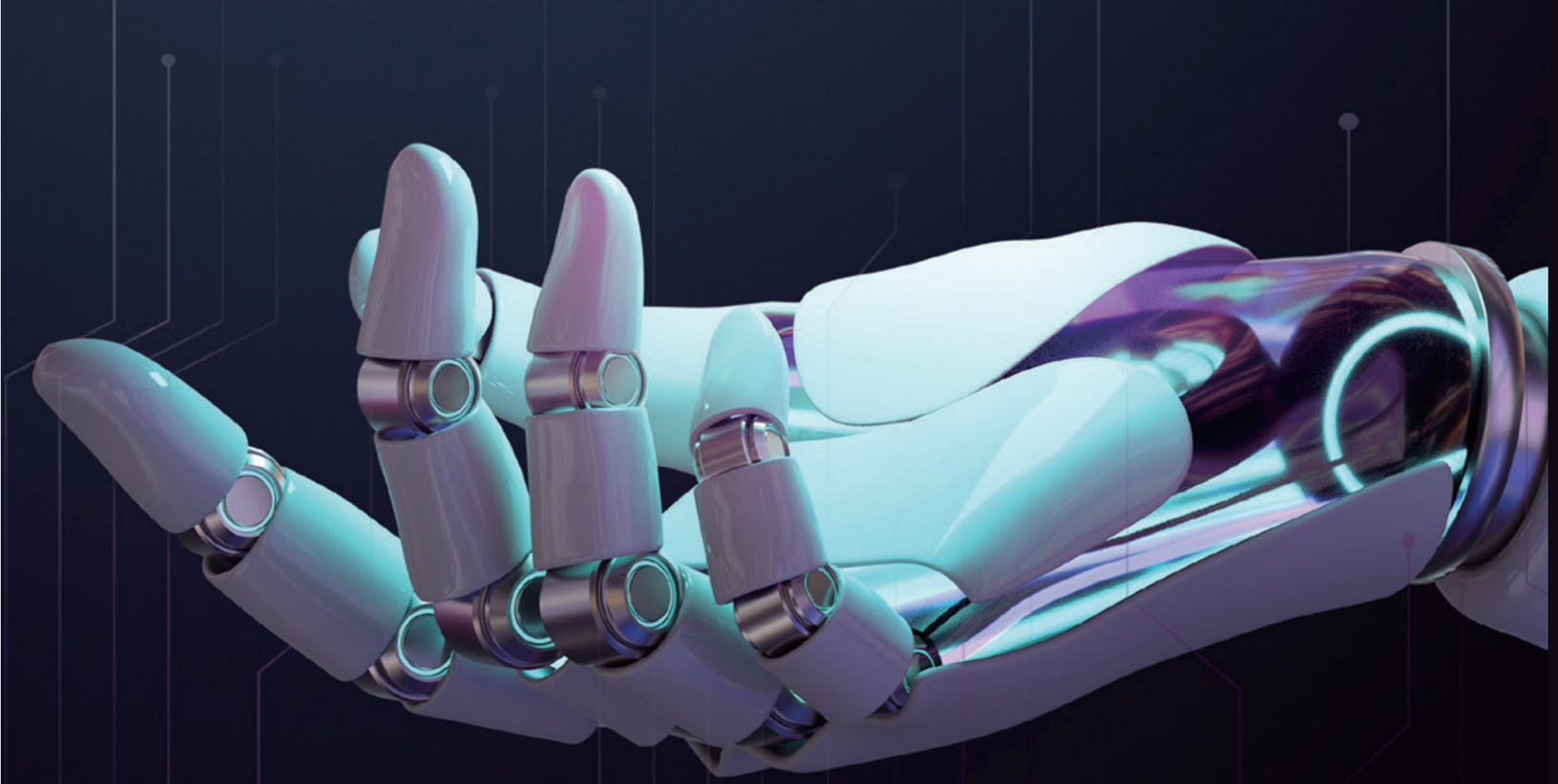


Note: For AHUKZ-04F only can combine 2 kits at maximum.

Combinations	Allow or not (m^3/h)
AHUKZ-04F + AHUKZ-03F	Yes, the maximum capacity model is 04F, and the minimum capacity model is 03F. The two models must be adjacent to each other.
AHUKZ-00F + AHUKZ-01F + AHUKZ-01F	Yes, the maximum capacity model is 0IF, and the minimum capacity model is 00F. The two models must be adjacent to each other.
AHUKZ-04F + AHUKZ-02F	No, the maximum capacity model is 04F, and the minimum capacity model is 02F. The two models do not meet the requirements for adjacent space.
AHUKZ-00F + AHUKZ-01F + AHUKZ-03F	No, the maximum capacity model is 03F, and the minimum capacity model is 00F.The two models do not meet adjacency requirements.

CONTROL SOLUTIONS

Remote Controllers
Wired Controllers
Centralized Controllers
Network Control
SystemBMS Gateways
Accessories



CONTROLLER LINEUP

Wireless Remote Controllers	Wired Remote Controllers	Centralized Controllers
 WL-12F1-CM	 WR-86S-CM	 CRF-210A-CM  CRF-270D-CM
 WL-12F-CM	 WR-86T-CM	 4GNS-30-CM(A)
	 WR-120T-CM	 4GNS-30-IF

Network Control System	BMS Gateways	Accessories
 NW3-CLOUD-CM + 	 NW3-BAC-CM  NW3-MOD-CM	 CA3-EK
 NW3-CLOUD-CM +  Cloud Control/ APP	 NW3-LON-CM  NW3-KNX-CM	 VRF-DIAG(A)

Remote Controllers

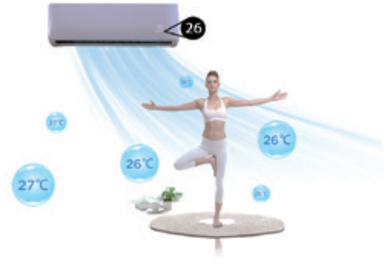
Features

Model	 WL-12F1-CM	 WL-12F-CM
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5℃ or 1℃ steps)	● (0.5℃ or 1℃ steps)
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Address setting	●	●
Follow me	×	●
Eco mode	●	●
Silent mode	●	●
Display shut-off	●	●
Daily timer	●	●
Self Cleaning Mode setting	●	×
Sterilization function setting	●	×
Keyboard lock	●	●
Background light	●	●
Indoor Unit parameter setting	●	●
Dimensions (HxWxD) (mm)	170×48×20	170×48×20
Batteries	1.5V (LR03/AAA) × 2	
Indoor unit series	SUPER Y IDU, 3rd and 2nd generation IDU	

Note:
●: equipped as standard; ×: without this function

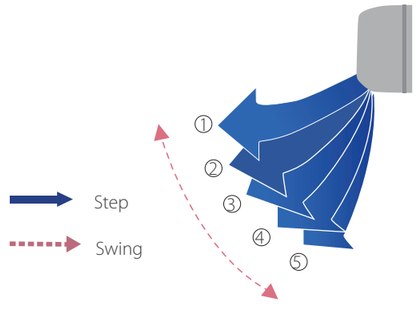
Follow Me

With the follow me function, the indoor unit responds to the temperature measured by the temperature sensor built-in to the wireless remote controller, rather than the temperature sensor in the indoor unit itself, enabling more precise control of the temperature in the user's immediate environment.



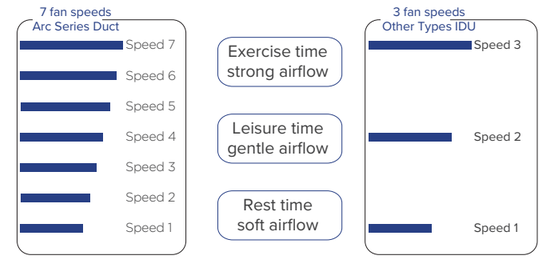
5 Swing Angles for Louver

Thanks to the 5 swing angles for indoor unit louver, the air flow direction can be controlled more precisely.



Multiple Fan Speed Control

The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



Self Cleaning Mode setting

Can be turned on Self Cleaning mode.

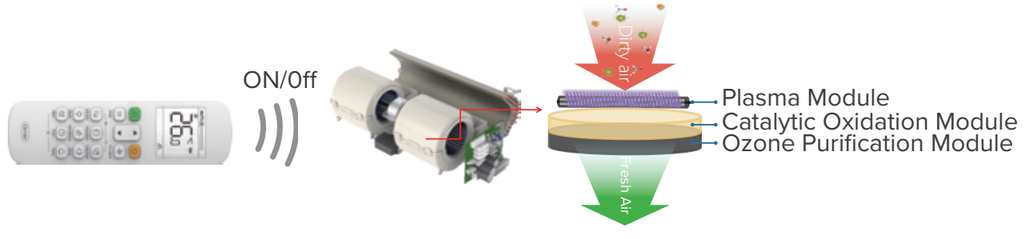
Can be turned on Self Cleaning mode.

Frosting	Defrosting	Drying
Frost makes the surface of heat exchanger dirt stripping	Water flow flushes dirt from heat exchanger	55℃ high temperature drying water, effective sterilization

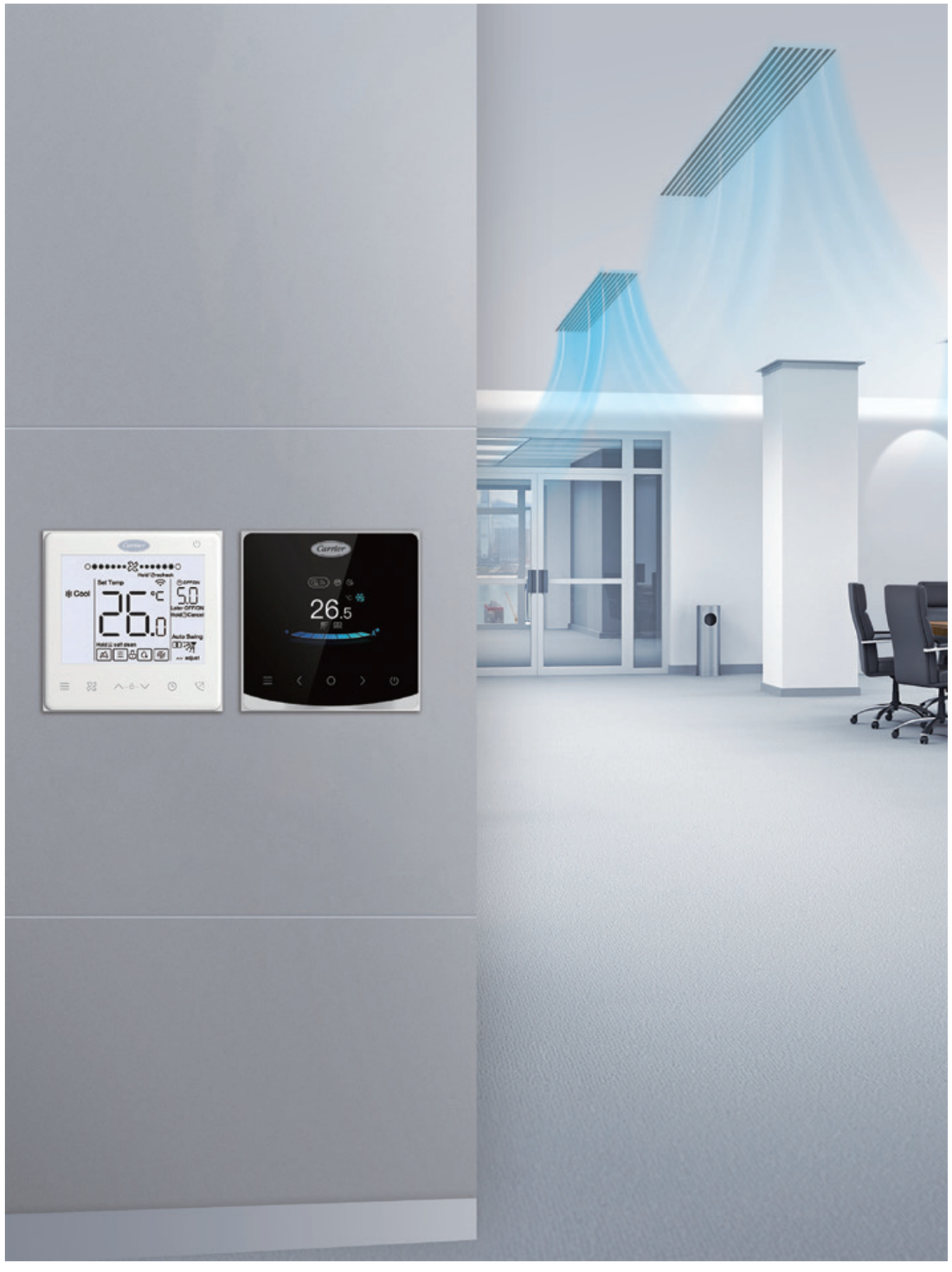
*The self clean function is only available for Super YS VRF.

Sterilization function setting

If the sterilization function is available for the indoor unit, it can be turned on or turned off using this setting.



Wired Controllers



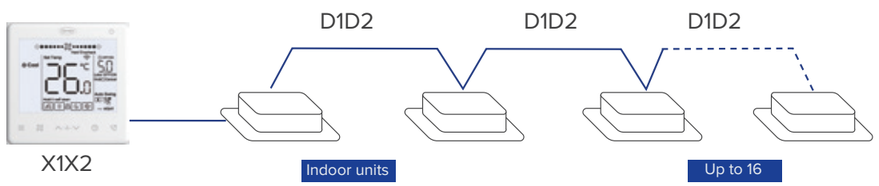
Features

Model	 WR-86S-CM	 WR-86T-CM	 WR-120T-CM
On / Off	●	●	●
Mode selection	●	●	●
Temperature setting	● (0.5℃ or 1℃ steps)	● (0.5℃ or 1℃ steps)	● (0.5℃ or 1℃ steps)
Dual temperature set points	×	●	●
7-speed fan control	●	●	●
Auto swing	●	●	●
5-step swing louver	●	●	●
Address setting	●	●	●
Follow me	●	●	●
CETAmode	●	●	●
Room temperature display	●	●	●
°F/°C display	●	●	●
Keyboard lock	×	●	●
Background light	●	●	●
Daily timer	●	●	●
Weekly schedule timer	×	●	●
Auto restart	●	●	●
2 permission levels	●	●	●
Bi-directional communication	●	●	●
Group control	●	●	●
Main or secondary controller setting	●	●	●
Display shut-off	●	●	●
Silent mode	●	●	●
Remote signal receiver	●	●	●
Clean filter reminder	●	●	●
Extension function	×	●	●
Daylight saving time	×	●	●
Clock display	×	●	●
Error check function	●	●	●
System parameter querying	●	●	●
After Hours/Off Timer function	×	●	●
Language	English		
One to more control	×	●	●
Dimensions (WxHxD) (mm)	86x86x18	86x86x18	120x120x20
Power supply	18V DC	18V DC	18V DC
Indoor unit series	Super Y IDU		

Note:
●: equipped as standard; ×: without this function

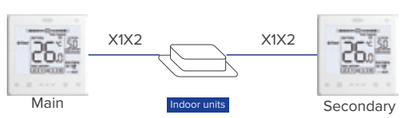
Group Control

One controller can be used to unify the settings across up to 16 indoor units.

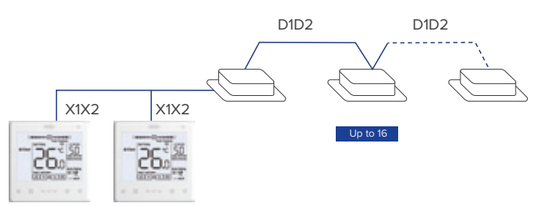


Main or Secondary Controller Setting

Two controllers can be used together with single indoor unit. Operating mode and settings would be set according to the most recent instruction received. The controller display screens are synchronized so that both displays update when a setting is adjusted.



One indoor unit



Two or more indoor units

2 Permission Levels

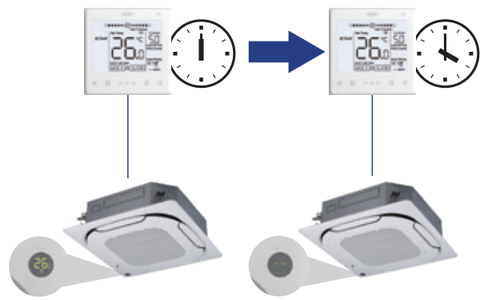
2 permission levels ensure users can easily access control functions and allow administrators convenient access to operating parameters.

Auto Cooling-heating Changeover

Automatically selects cooling or heating mode to achieve the set temperature.

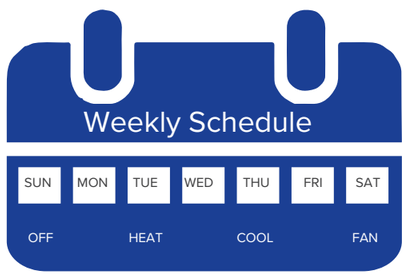
Off Timer Function

We can use the wired controller to set an automatic off timer or after hours function for the indoor unit.



Weekly Schedule Timer

The weekly schedule timer allows users to set multiple schedules each with its own operating mode, temperature settings and fan speeds.



Bi-directional Communication

The wired controller can query the system operating parameters thanks to the new bi-directional communication functionality. In addition, settings including static pressure, cold draft prevention and temperature compensation can be configured on the wired controller.

Note： This function is only available for Super X outdoor unit connected to Super X DC indoor unit

Central Controllers

Features

Model	 CRF-270D-CM	 CRF-210A-CM
Max. number of indoor units	384	64
Max. number of refrigerant systems	48	8
Touch screen	● (10.1-inch)	● (7-inch)
On/Off	●	●
Mode selection	●	●
Temperature setting	● (0.5 ℃ steps)	● (0.5 ℃ steps)
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Room temperature display	●	●
Holiday setting	●	●
℃/℉ display	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Indoor unit type/model recognition	●	●
Indoor unit with capacity larger than 16kW recognition	●	●
Energy management	●	●
Group management	●	●
Error check function	●	●
USB output	●	×
Report display	Error report and operation record	×
Operation log	●	×
LAN access	●	●
Language supported	English, Chinese, Arabic, Spanish, Turkish, Portuguese, Korean, Russian, Italian, Polish, French, German, Georgian	English, Chinese, Arabic, German, Spanish, Turkish, Portuguese,Korean, Russian, French, Italian, Polish, Georgian, Vietnamese, Hungarian, Czech, Thai,Finnish, Swedish, Danish, Dutch
Dimensions (W×H×D)(mm)	270×183×27	190×106×32
Power supply	24V AC	12V DC
Outdoor unit series or indoor unit series	Pure Super Y system	Except Super Plus

Touch Screen

Colorful touch screen and vivid display make operation more convenient and simple.

Group Management

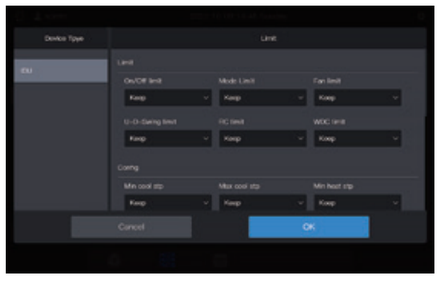
Units can be viewed according to group, system or location, making unit management clearer and more convenient.

LAN Access

A desktop or laptop PC can be used for browser-based access via a LAN connection.

Energy Management

User can set limits on an indoor unit, such as operation temperature range, fan speed, mode, swing command, on/off command, romote controller signal and wired controller signal.



Unit Model Recognition

The controller recognizes the model of indoor and outdoor units and different models are represented by different icons.

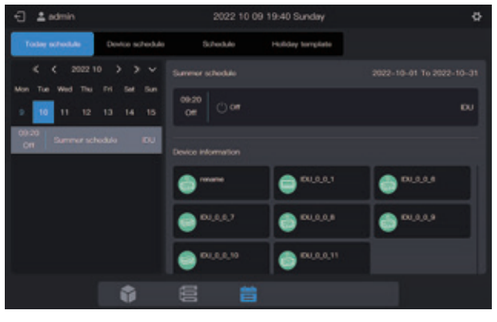
Icon	Model	Icon	Model
	Low static pressure and middle static pressure (L-DUCT/M-DUCT)		Vertical concealed installation/vertical surface mounting (FS)
	High static pressure (H-DUCT)		Four-way Cassette
	Purifier (FAPU)		Compact Four-way Cassette (COMPACT)
	Wall mounting (WALL)		Ceiling-floor type (C&F)
	Old IDU (1st Gen. IDU)		Two-way Cassette
	One-way Cassette		CONSOLE
	Group control device icon		New ODU (New generation ODU)

Outdoor Unit Configuration

Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.

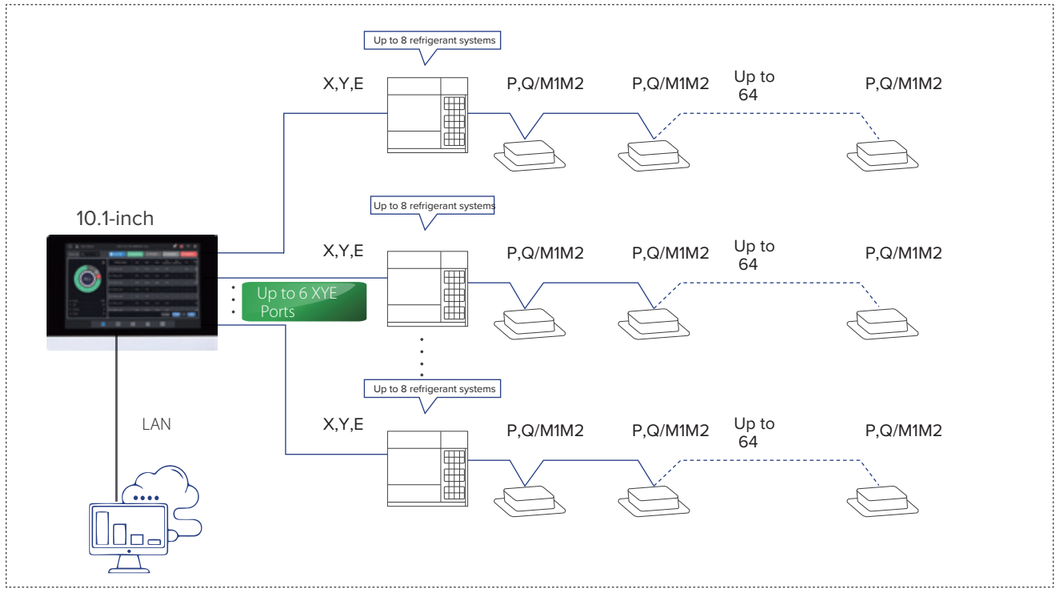
Schedule Management

Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.



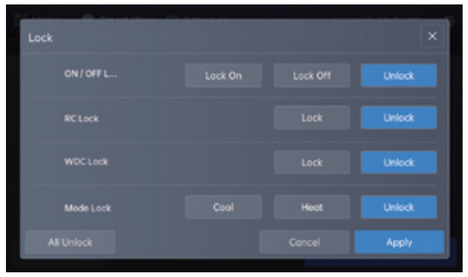
Wiring Flexibility

The controllers can be connected to the master outdoor unit directly.



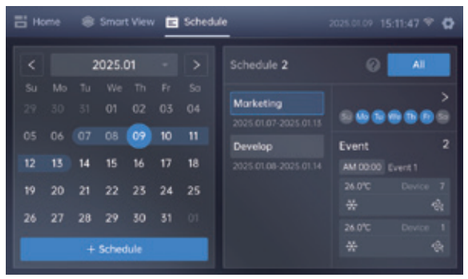
Energy Management

User can set the lock on an indoor unit, such as operation temperature range, fan speed, mode, swing command, on/off command, romote controller signal and wired controller signal.



Schedule Function

The controller can be used to make a detailed schedule for the indoor units. The schedule can be set for the whole year.

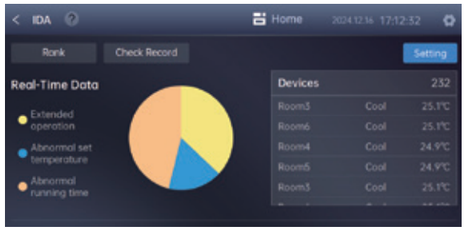


Group Management

Units can be viewed according to group, system or location, making unit management clearer and more convenient.

IDA Function

Allows you to set the algorithms for inefficient device operation. The central controller will monitor and record the device operation status based on the configured algorithms to facilitate energy conservation assessment.

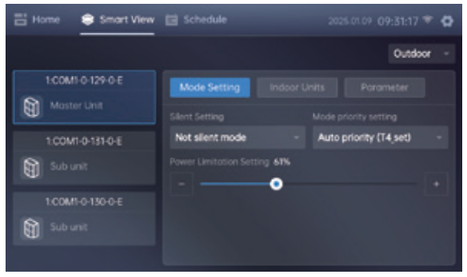


Touch Screen

Colorful touch screen and vivid display make operation more convenient and simple.

Outdoor Unit Configuration

Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.

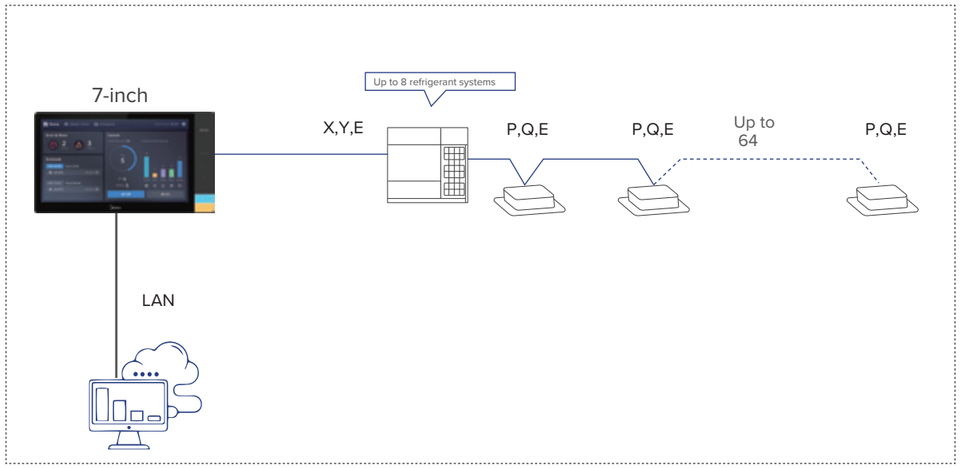


Multiple Fan Speed Control

A desktop or laptop PC can be used for browser-based access via a LAN connection.

Wiring Flexibility

Controllers can be connected to the master outdoor unit directly.



4GNS-30-IF

Features

Software Model	 4GNS-30-IF		
On/Off	●		
Mode selection	●		
Temperature setting	●		
7-speed fan control	●		
Auto swing	●		
5-step louver swing	●		
Room temperature display	●		
Schedule management	●		
℃ / ℉ display	●		
Clock display	●		
4 permission levels	●		
Indoor unit type/model recognition	●		
Energy management	●		
Group management	●		
Error check function	●		
Report display and output	Error history, Operation history, User history, Cycle data history		
3D view	●		
Language supported	English, Chinese, Arabic, Spanish, Turkish, Portuguese, Korean, Russian, Italian, Polish, French, German, Georgian		
Hardware model	 4GNS-30-CM	 4GNS-30-CM(A)	 CRF-210A-CM
Dimensions (HxWxD)(mm)	237×144×87.2	155×124×51.5	190×106×32
Power supply	9~30V DC	24V DC	12V DC
Max. number of gateways per software system	2	21	21
Max. number of indoor units per gateway	512	256	64
Max. number of refrigerant systems per gateway	64	32	8
Unit Series	Pure Super Y system		

Unit Management and Control

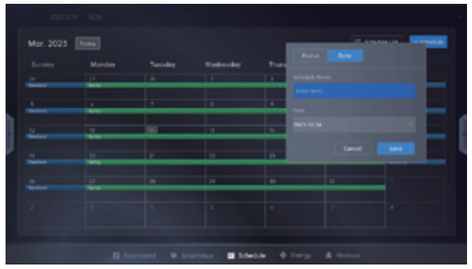
Users can flexibly group and centrally control multiple VRF units based on various criteria including system, location and scenario. Limits can be placed on unit functions such as temperature setting range, fan speed, operation mode and others.

Consumption Monitoring

When paired with a digital power meter, 4GNS-30-IF uses the patented Calculation Method to gather power consumption data from the outdoor unit (ODU) and estimate the electricity usage of each indoor unit. This enables accurate billing based on the power consumption of each building occupant.

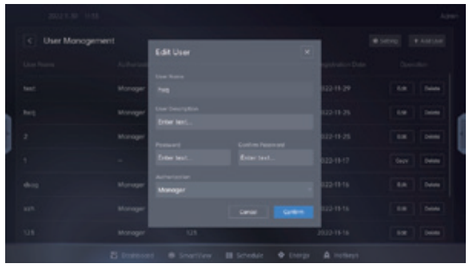
Schedule Function

The controller can be used to make a detailed schedule for the indoor units. The schedule can be set for the whole year.



User and Permission Management

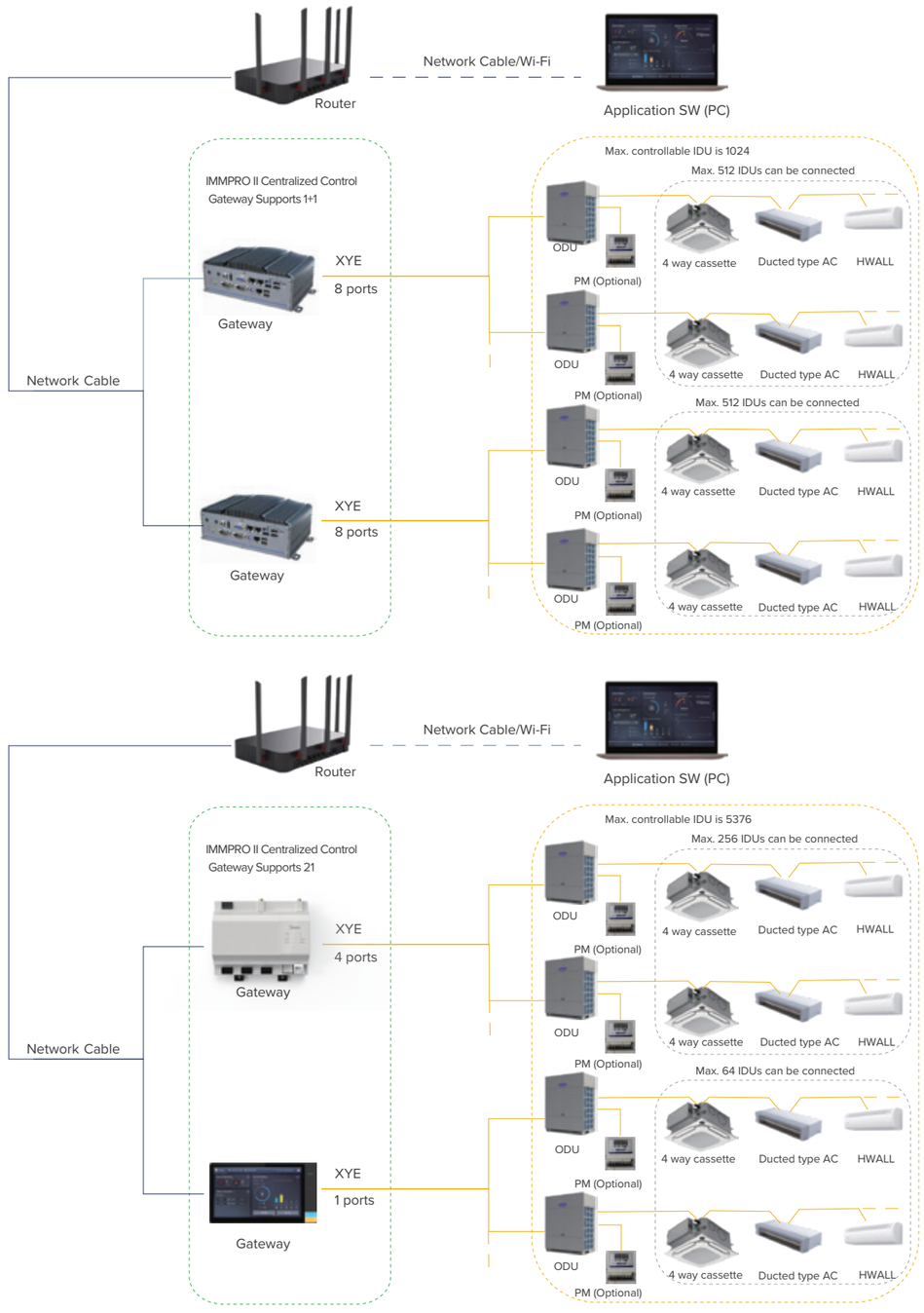
Colorful touch screen and vivid display make operation more convenient and simple.



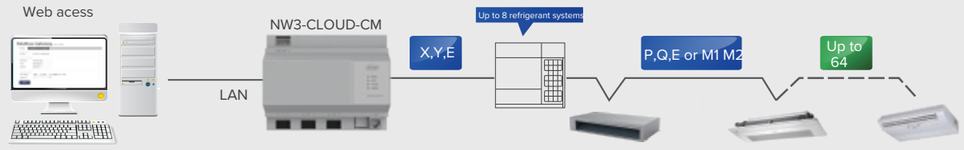
2D/3D View

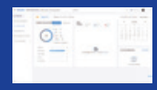
Upload project floor plans that include equipment locations and the software will display the system layout in either 2D or 3D.

Easy Installation and Debugging



Network Control System



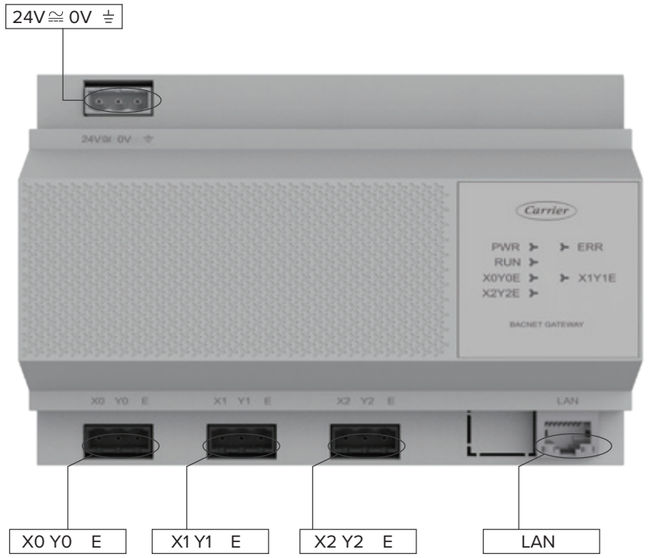
Cloud Control		
Software model	iEasyComfort	iEasyComfort App
Device control	●	●
Device monitor	●	●
Group control	●	●
Schedule management	●	●
Group management	●	●
Error check function	●	●
Operation log	●	●
Clock and Weather display	●	●
Max. number of gateways per software system	Unlimited	Unlimited
Hardware model	 NW3-CLOUD-CM	
Dimensions (HxWxD)(mm)	154×124×51.5	
Power supply	12V DC	
Max. number of indoor units per gateway	64	
Max. number of refrigerant systems per gateway	8	
Unit Series	Pure SUPER Y system	

Cloud Service Platform	
Software model	Intelligent HVAC Management System
Project management	●
Device management	●
ODU and IDU OTA management	●
Event management	●
Permission management	●
Max. number of gateways per software system	Unlimited
Hardware model	 NW3-CLOUD-CM
Dimensions (HxWxD)(mm)	154×124×51.5
Power supply	12V DC
Max. number of indoor units per gateway	64
Max. number of refrigerant systems per gateway	8
Unit Series	Pure SUPER Y system

Note:
●: equipped as standard; ×: without this function

BACnet Gateway

Port Connections

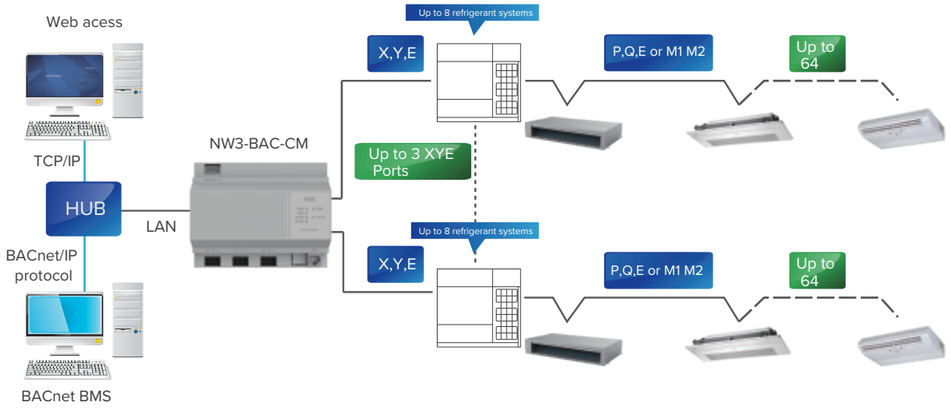


Full Integration

The BACnet Gateway enables seamless connection of Carrier VRF systems with building management systems built on the BACnet communication protocol.

Network Flexibility

The gateway can be connected to master outdoor units' XYE ports directly.



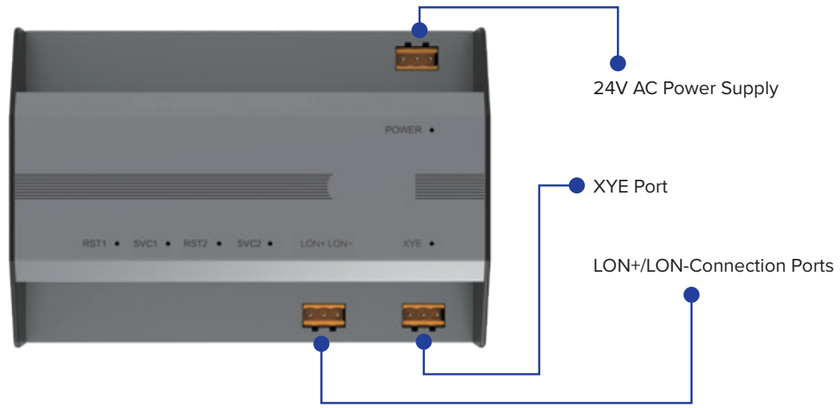
Features

Model		 NW3-BAC-CM
Max number of indoor units		192
Max. number of refrigerant systems		24
Indoor unit control	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Swing	●
	Energy management	●
Indoor unit monitoring	Room temperature display	●
	Running status	●
	Error status	●
	EXV status	●
Outdoor unit control	Emergency Stop	●
Outdoor unit monitoring	Operating mode	●
	Outdoor ambient temperature	●
	Fan speed	●
	Compressor operating frequency	●
	Exhaust Temperature	●
	System pressure	●
	Error status	●
	Error alarms	●
LAN access		●
Dimensions (HxWxD)(mm)		154×124×51.5
Power supply		24V AC/DC
Unit Series		Pure Super Y system

Note:
●: equipped as standard; ×: without this function

LonWorks Gateway

Port Connections

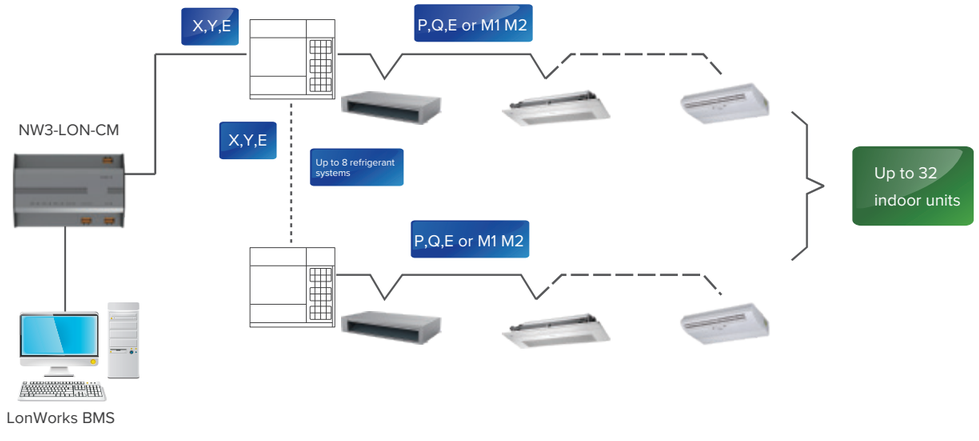


Full Integration

The Lonworks Gateway enables seamless connection of Carrier VRF systems with home and building management systems built on the Lonworks communication protocol.

Network Flexibility

The gateway can be connected to master outdoor units' XYE port directly.



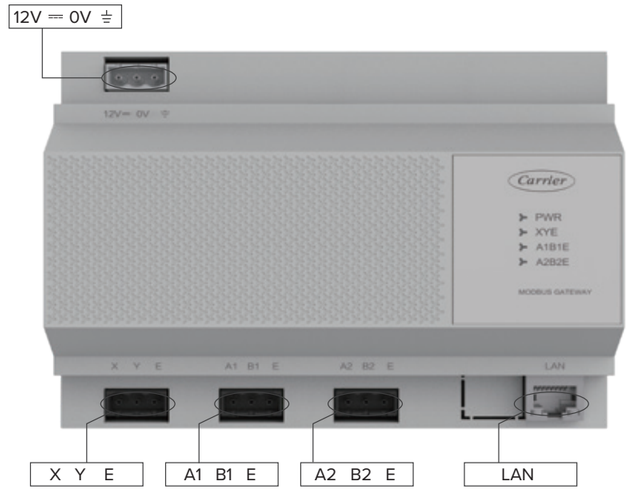
Features

Model		NW3-LON-CM
Max. number of indoor units		32
Max. number of refrigerant systems		8
Control	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Group shut down	●
	On / Off	●
Indoor unit monitoring	Operating mode	●
	Set temperature	●
	Fan speed	●
	Online status	●
	Operating status	●
	Room temperature	●
	Error status	●
Outdoor unit monitoring	Error status	●
Dimensions (HxWxD)(mm)		116×170×67
Power supply		24V AC
Unit Series		Pure Super Y system

Note:
●: equipped as standard

Modbus Gateway

Port Connections



Two types of register addresses

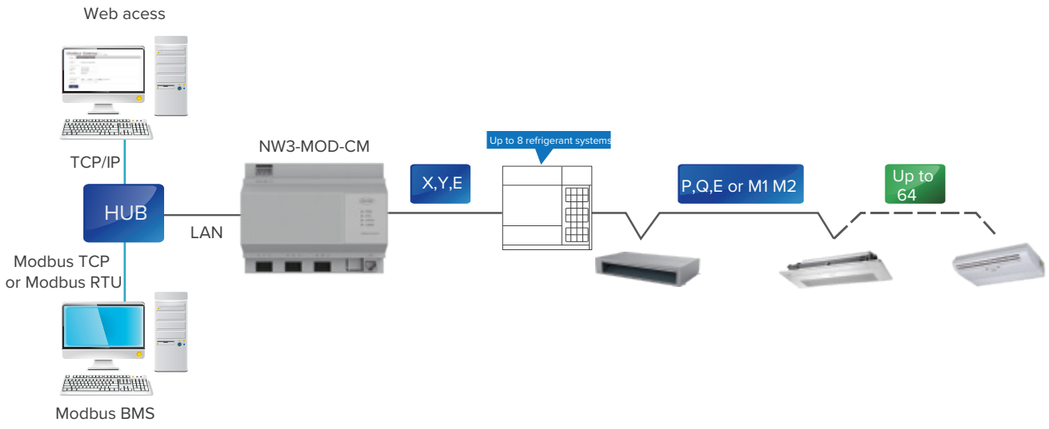
The Modbus Gateway enables seamless connection of Carrier VRF systems with building management systems built on the Modbus communication protocol.

Full Integration

The Modbus Gateway enables seamless connection of Carrier VRF systems with building management systems built on the Modbus communication protocol.

Network Flexibility

The gateway can be connected to master outdoor units' XYE ports directly.



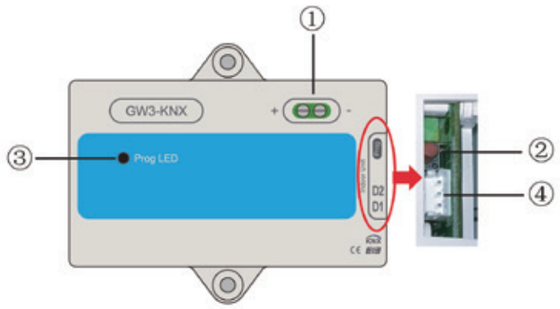
Features

Model		NW3-MOD-CM
Max. number of indoor units		64
Max. number of refrigerant systems		8
Control	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Energy management	●
	Group on/off	●
Indoor unit monitoring	Online status	●
	Room temperature	●
	Error status	●
	Operating mode	●
Outdoor unit monitoring	Operating mode	●
	Number of operating IDUs	●
	Outdoor ambient temperature	●
	Error status	●
LAN access		●
Dimensions (HxWxD)(mm)		154×124×51.5
Power supply		12V DC
Unit Series		Pure Super Y system

Note:
●: equipped as standard; ×: without this function

KNX Gateway

Port Connections



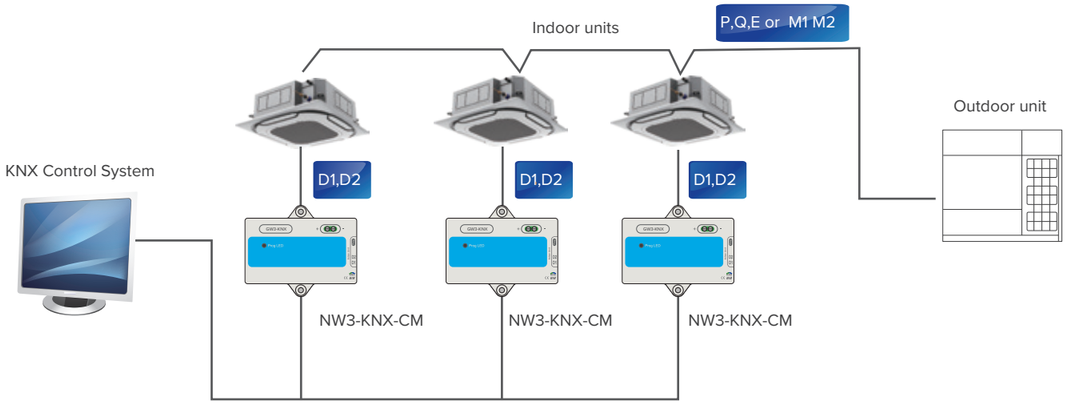
	Features
1	Power Supply DC 29 V
2	KNX Programming Button
3	KNX Programming Status Lamp
4	RS485 Communication Ports

Full Integration

The KNX Gateway enables seamless connection of Carrier VRF systems with home and building management systems built on the KNX communication protocol.

Network Flexibility

The gateway can be connected to indoor units' D1D2 port directly.



Features

Model		NW3-KNX-CM
Max. number of indoor units		1
Control	On / Off	●
	Mode selection	●
	Temperature setting	● (1°C steps)
	7-speed fan control	● (3-speed)
	Swing	●
Monitoring	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Swing	●
	Room temperature	●
	Error alarm	●
Dimensions (HxWxD)(mm)		85×51×16
Power supply		29VDC (KNX bus supply)
Indoor unit series		Pure 3rd Gen. IDUs

Diagnosis Software

Monitor and Diagnose

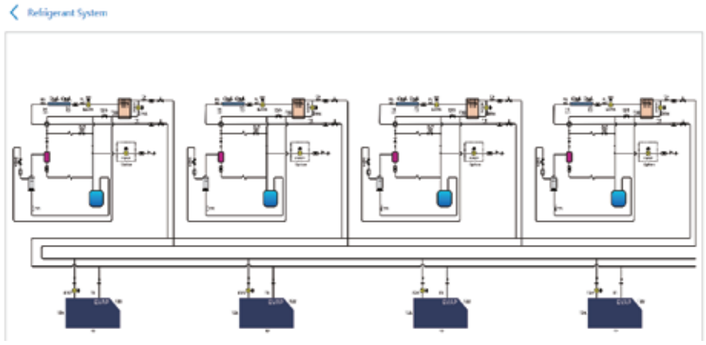
Carrier's VRF Diagnosis Software tool is used to monitor VRF systems and diagnose system errors. System settings and operating parameters can be accessed easily and data logs can be reviewed for fault prevention purposes.

Model		 VRF-DIAGNOSIS(A)
Max. number of indoor units		64
Max. number of refrigerant systems		1
Control	Mode selection	●
	Temperature setting	●
	Fan speed	●
Outdoor unit monitoring	Operating mode	●
	Capacity	●
	Compressor operating frequency	●
	Operating current	●
	Error status	●
	Temperatures	T3, T4(See note 1)
	Valve statuses	SV4, SV5, SV6, ST1 (See note 2)
	EXV position	●
Indoor unit monitoring	Operating mode	●
	Capacity	●
	Fan speed	●
	Address	●
	Temperatures	T1, T2, T2B, TS (See note 3)
	EXV position	●
Error codes		●
Toubleshooting		●
Data logs		●
Diagrams		System schematic, refregetrant flow diagram, parameter chart
Languages supported		English, Chinese
Units Series		Pure Super Y system

Note:
●: equipped as standard
1. Heat exchanger temperature, outdoor ambient temperature.
2. Oil return valve, defrosting valve, EXV bypass valve, four-way valve.
3. Indoor ambient temperature, indoor heat exchanger mid-point temperature, indoor heat exchanger outlet temperature, set temperature.

Diagrams

A system schematic, refregetrant flow diagram and parameter chart can be generated to provide a graphical interpretation of the system status.

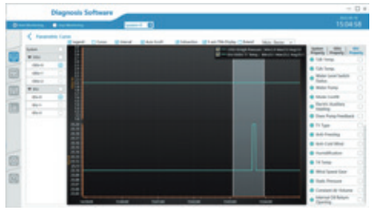


Expert Diagnosis

Carrier ' s VRF Diagnosis Software is specially designed to allow service engineers, to understand the operating status of the system at a glance.

Parameter Querying and Parametric Curve

Access all the system parameters easily.



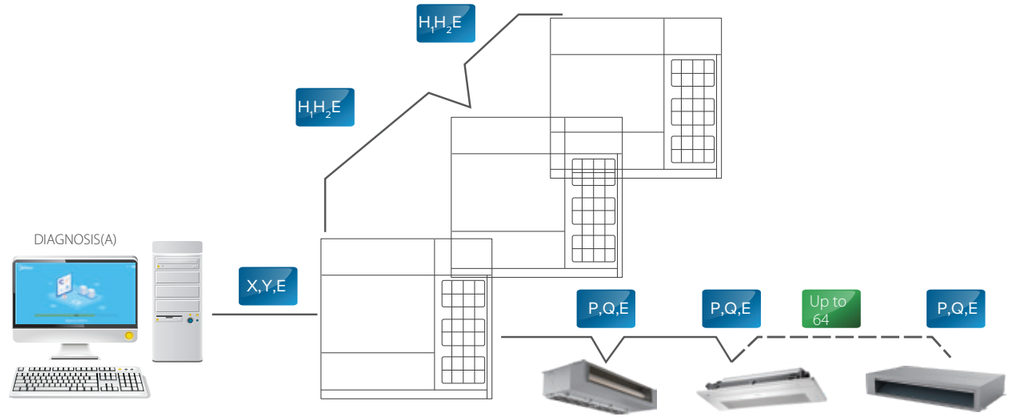
Use-friendly Interface

A stylish and simple interface with rich graphical representations makes diagnosing system issues quick and convenient.

Data Logs

Data logs including operating records and error reports are saved by the software which is useful for discovering system issues.

Wiring Schematic

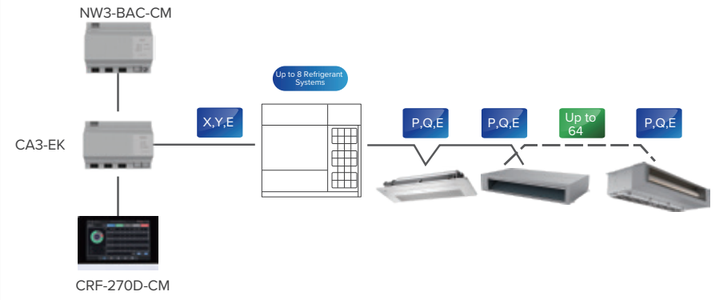


XYE Extension Kit

Simple Design

The CA3-EK is used to extend the XYE port of outdoor unit as the 2-way one which can connect to 2 Central Controllers or gateways.

Features

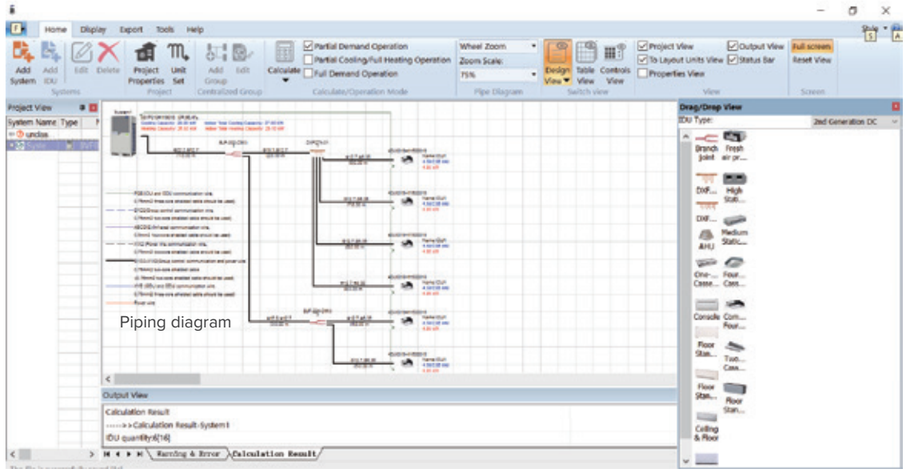
Model	 CA3-EK
Max. number of refrigerant systems	8
Wiring flexibility	
Dimensions (H×W×D)(mm)	154X124X51.5
Power supply	12V DC
Unit Series	Pure Super Y system

Selection Software"CSSP"

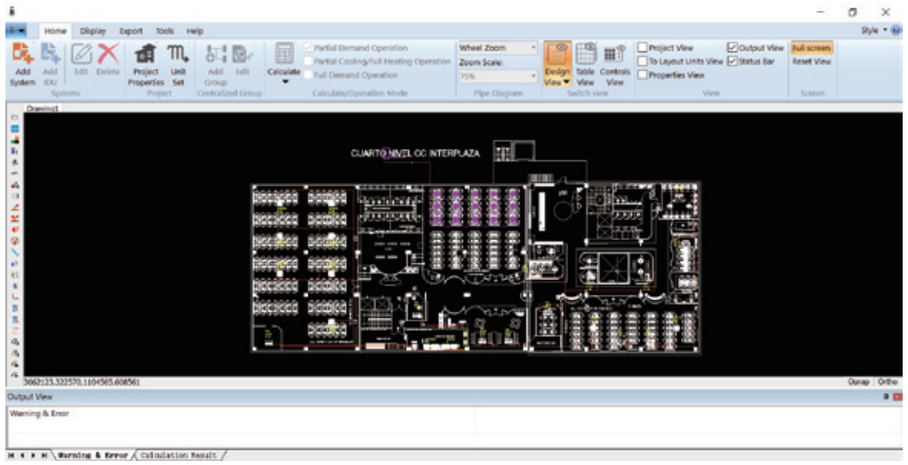
High Efficiency

Carrier's advanced design automation tool can be used by designers, consultants and distributors to greatly reduce the time and effort that must be devoted to the selection process. The software provides quick and convenient selectable options for users, supports multiple languages, and greatly improves the selection process.

The Selection Software provides distributors' sales team with a comprehensive selection of system design reports and calculations. Load calculations may be on either an initial estimate basis or detailed room-by-room basis. Based on the indoor units, outdoor units and controllers selected, the software produces detailed system layout diagrams and piping requirement calculations.



CAD View



Compatible Table Of Control System

Outdoor Unit Series	Indoor Unit Series	1st Generation (Remote Controllers/ Wired Controller/ KNX Gateway1)	1st Generation Centralized Controllers	1st generation BMS	2nd Generation (Remote Controllers/ Wired Controller/ KNX Gateway1)	2nd Generation Centralized Controllers	2nd Generation BMS	Data Converter	Network Control System	Diagnosis Software	Accessories
Super X/ Super Xi	3r d DC	/	/	/	WL-12F1-CM WR-86S-CM	/	/	/	/	/	/
Super X/ Super Xi	2nd DC	/	/	/	WL-12F-CM WL-12B-CM WR-86KD-CM WR-120G-CM	CRF-180B-CM CRF-270C-CM	5GNS-BAC-CM NW-MOD-CM-A NW-LON-CM-A NW-KNXA-CM	CIF-15B-CM	CRF-270C-CM + 4GNS-20-IF or 5GNS-20-CM + 4GNS-20-IF	VRF-DIAG-B	CA-HKCW CA-HKCS CA-IS
Super X/ Super Xi	1st DC/AC	WR-29B-CM WL-12-CM WL-14-CM WR-120C -CM	CRF-40-CM WCRF-10 -CM	NW-KNX -CM	/	CRF-180B -CM CRF-270C -CM	5GNS-BAC-CM NW-MOD-CM-A NW-LON-CM-A	CIF-15B-CM	CRF-270C-CM + 4GNS-20-IF or 5GNS-20-CM + 4GNS-20-IF	VRF-DIAG-B	CA-NIM05/E CA-NIM05B/E CA-NIM09
Super X/ Super Xi	2nd DC	/	/	/	WL-12F-CM WL-12B-CM WR-86KD-CM WR-120G-CM	CRF-180B-CM CRF-270C-CM	5GNS-BAC-CM NW-MOD-CM-A NW-LON-CM-A NW-KNXA-CM	CIF-15B-CM	CRF-270C-CM + 4GNS-20-IF or 5GNS-20-CM + 4GNS-20-IF	VRF-DIAG-B	CA-HKCW CA-HKCS CA-IS
Non Super X/ Super Xi	1st DC/AC	WR-29B-CM WL-12-CM WL-14-CM WR-120C-CM	CRF-40-CM WCRF-10-CM	CRF-18-CM NW-KNX-CM	/	CRF-180B-CM CRF-270C-CM	5GNS-BAC-CM NW-LON-CM-A	CIF-15B-CM	M-interface + IMM	VRF-DIAG-B	CA-NIM05/E CA-NIM05B/E CA-NIM09
Non Super X/ Super Xi	2nd DC	/	CRF-40-CM WCRF-10-CM	CRF-18-CM	WL-12F-CM WL-12B-CM WR-86KD-CM WR-120G-CM	CRF-180B-CM CRF-270C-CM	5GNS-BAC-CM NW-LON-CM-A NW-KNXA-CM	CIF-15B-CM	M-interface + IMM	VRF-DIAG-B	CA-HKCW CA-HKCS CA-IS