Carrier

XPOWER

FULL DC INVERTER

VRF

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TOTALINE

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Carrier

April 2025

OUTDOOR UNITS

X Power (Combination Series)
X Power i (Individual series)

The X Power 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 - Heat Pump

X Power (Combination Series)

HP	8-20	22-28	30-38
Single Unit			

HP	40-76	78-114
Combination Unit		

X Power (i)

HP	8-20	22-28	30-38
Single Unit			

OUTDOOR UNITS

X Power (Cooling Only)

The X Power Series VRF uses a variety of algorithms and self-learning technology to monitor the operation of the equipment through operting prameters and timely maintenance, so that the equipment always runs optimal condition throughout its life cycle.

Outdoor Unit Lineup X Power

X Power (Cooling only)

HP	8-22	24-32
Single Unit		

HP	34-64	66-96
Combination Unit		

Sealed Box

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

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

All Microchannel Refrigerant Cooling

All electronic components including inverter module, filter module and power module are cooled by specially designed microchannel heat exchanger 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.

BENEFITS

High reliability

Stable operation

■ IP (INGRESS PROTECTION)

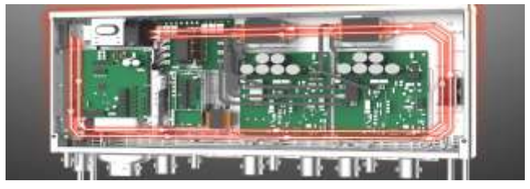
IP 55

Dustproof grade code
Prevent entry foreign objects and dust

Waterproof grade code
Prevent water spray in all directions

PTC Heater*

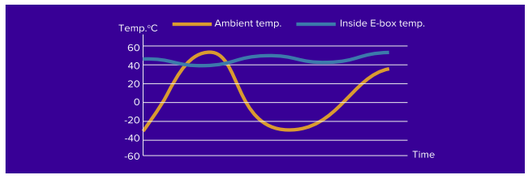
The unique PTC heater, with precise temperature control sensor, can still ensure that the temperature inside the chamber is within the normal operating temperature range of electronic devices even in the low-temperature environment of -30°C.



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.

*Only in Heat Pump



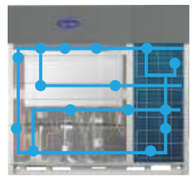
Comprehensive Sensor

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.

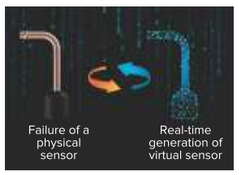
Complete Sensors

The X Power 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.



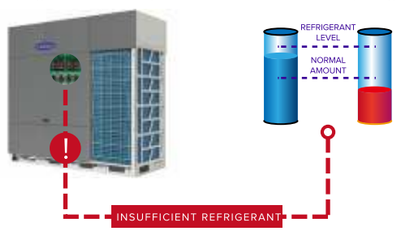
Virtual Sensor Backup

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.



Refrigerant Amount Diagnosis*

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



*optional feature

Carrier ETA (CETA) 2.0

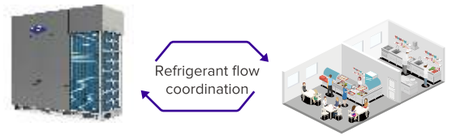
CETA is the abbreviation of Carrier Evaporating Temperature Alteration. Further upgraded CETA technology to maximize ENERGY SAVING.

(Built-in professional operation and maintenance algorithm, so that the annual operation energy efficiency of each set of systems increased)

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.

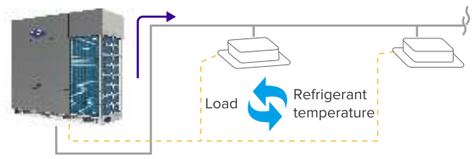


Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.

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.

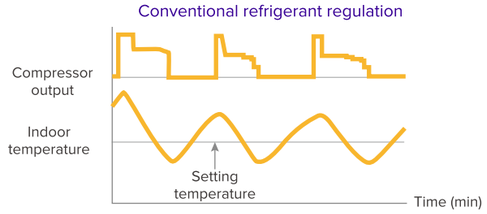
Variable Indoor Airflow

STEP 3: Adaptive indoor airflow and refrigerant flow

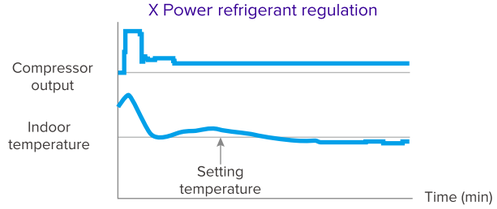
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise temperature control.

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

Conventional refrigerant regulation



X Power refrigerant regulation



Diaognistic tool 2.0

Further upgraded Diaognistic tool to maximize Easy Service.

Based on a cloud-based platform of big data and artificial intelligence, the X power 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.

Real-time Monitoring of Operating Parameters

The X power 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

X power 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 Bluetooth module is available as a customization option.

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.

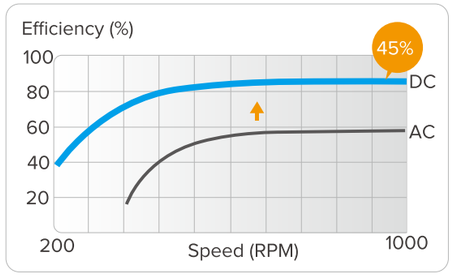
*The data cloud gateway needs to be purchased separately.

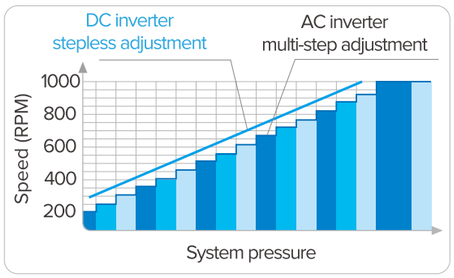
High Efficiency

Full DC Inverter Technology

Full DC Inverter for Outdoor Components

The X power 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.





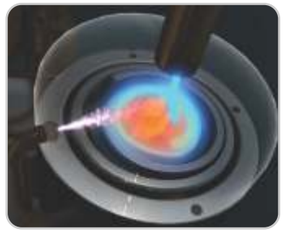
Wider frequency adjustment range

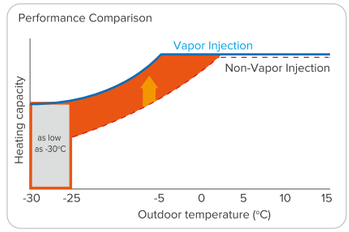
Faster cooling and heating

Higher energy efficiency

Enhanced Vapor Injection (EVI) Scroll Compressor

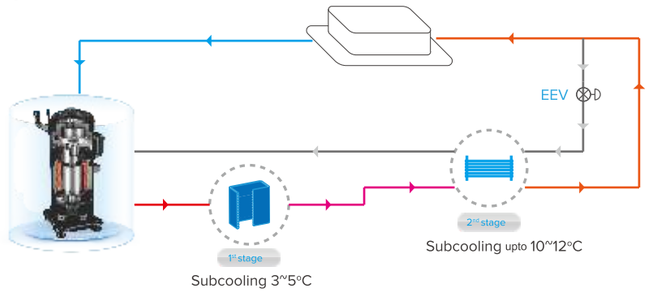
The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves both cooling and heating capacity.





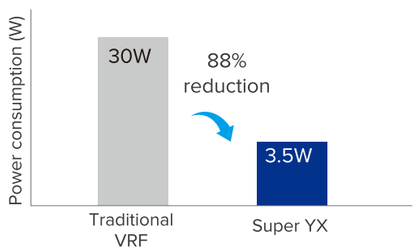
Advanced Subcooling Technology

The X power VRF uses a micro-channel heat exchanger to further cool the refrigerant and the refrigerant system can achieve 12°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound of refrigerant flow.



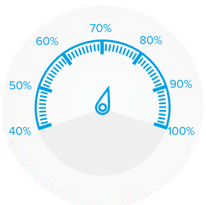
Low Standby Power Consumption

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

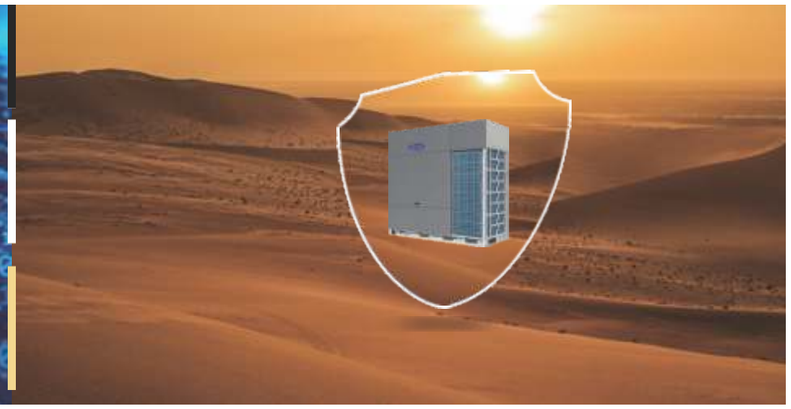


60-step Energy Management

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

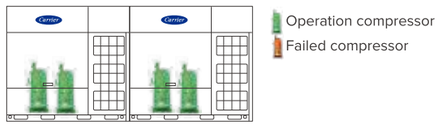


Quadruple Backup

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

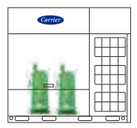


Intelligent load-bearing between units during normal operation

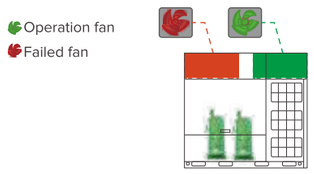
Continue operating in case of failure of one unit

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.



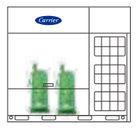
In normal operation, each fan runs on demand



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

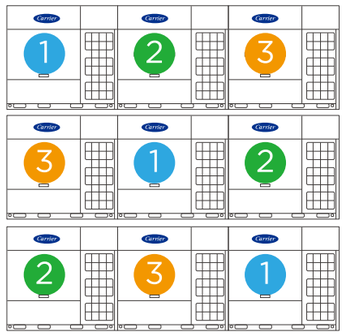
Through digital algorithms, each physical sensor generates a corresponding virtual sensor that acts as a backup to each other, ensuring that the failure of one sensor does not affect the normal operation of the system.

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

Double Duty Cycling

1 Unit Duty Cycling

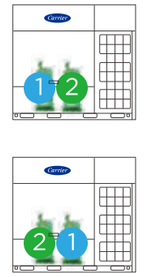
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



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

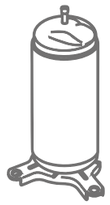
Insect proof

Comprehensive Sensor

X power 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.

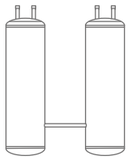
Precise Oil Control

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

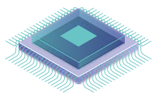


1 Compressor internal oil separation.

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.

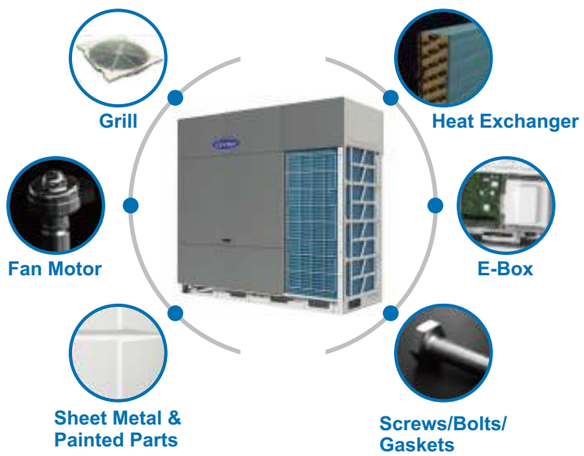


4 The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

Heavy Anti-corrosion Protection*

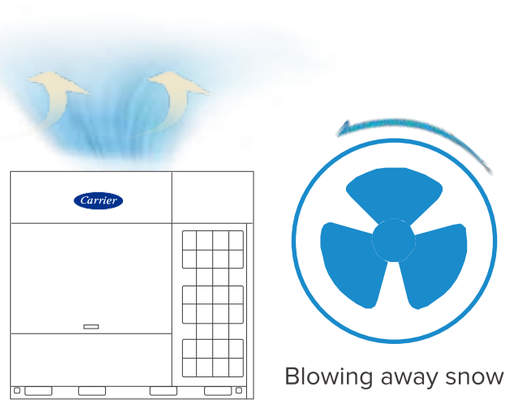
Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful 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.



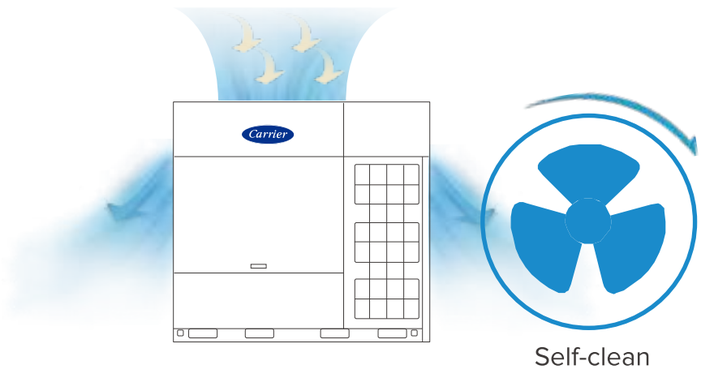
Auto Snow-blowing Function

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



Auto Dust-clean Function

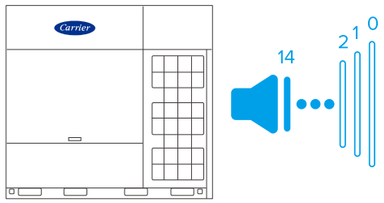
The innovatively designed dust-clean function enables the outdoor unit to prevent the dust by itself.



Enhanced Comfort

Advanced Silent Technology

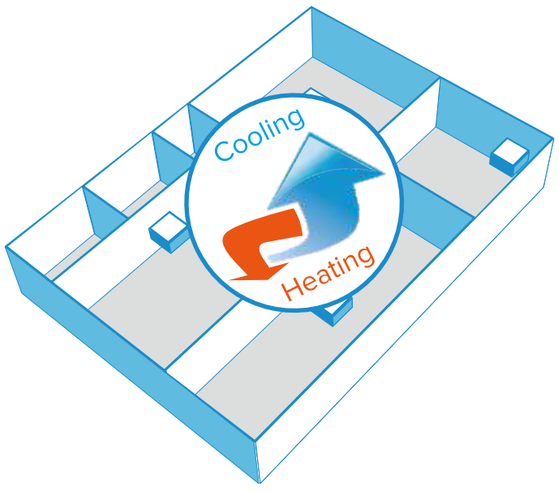
15-step silent mode provide more freedom and convenience to match the customer needs.



15 silent options

Auto Cooling-heating Changeover

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



6 Priority Modes

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

Cooling priority

Auto priority

Cooling only

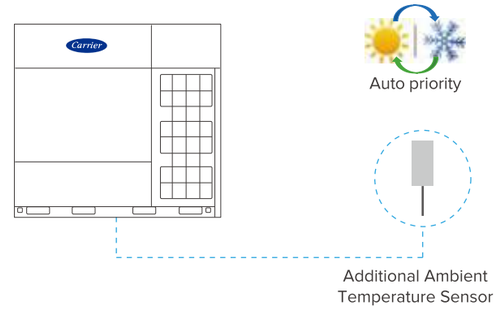
Heating only

Quantity vote priority

VIP priority

Additional Ambient Temperature Sensor*

The X Power 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 X power Series VRF are available in individual series and combination series. The individual series has capacities from 8HP to 38HP and the combinable series from 8HP to 114HP, perfectly suited for small to large buildings.

X power

Single unit

8-20HP

Single unit

22-28HP

Single unit

30-38HP

Combined unit

40-76HP

Combined unit

78-114HP

X power (i)

Single unit

8-20HP

Single unit

22-28HP

Single unit

30-38HP

X Power (Co)

The single unit has capacities from 8HP to 32HP & the combined unit from 34HP to 96HP

Single unit

8-22HP

Single unit

24-32HP

Combined unit

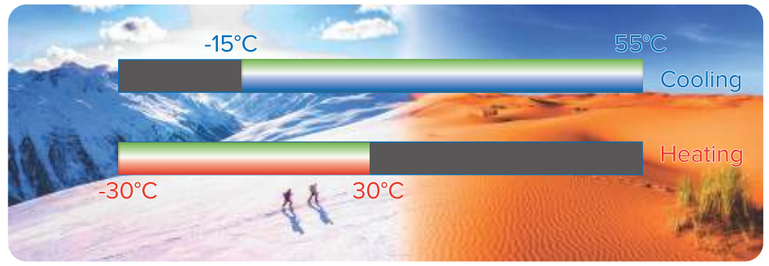
34-64HP

Combined unit

66-96HP

Wide Operation Range*

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



*Only in Heat Pump

Long Piping Capability

The total piping length of the X power 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 X power Series VRF perfectly suitable for all buildings.

Total piping length: **1100m**

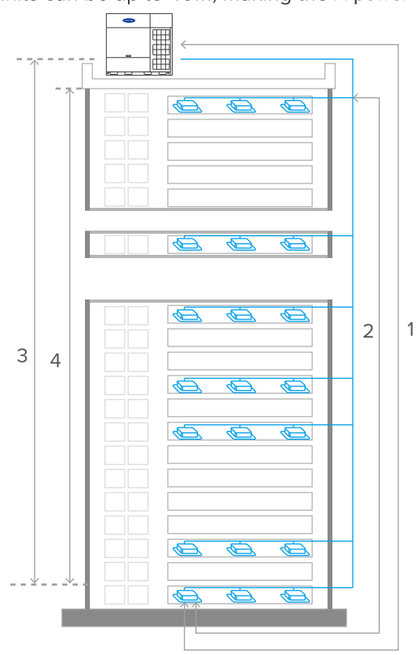
1 Longest piping length - actual (equivalent): **220(260)m**

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

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

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

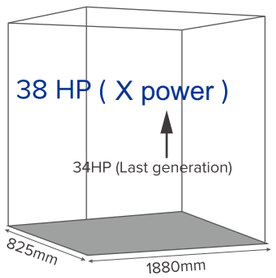
*The longest length after first branch is 40m as standard but can be extended to up to 120m under certain conditions. Please contact your local dealer for further information.

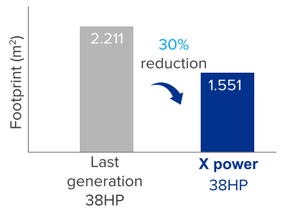


Easy Installation and Service

Space Saving

The X power Series VRF has large capacity and small size, with a capacity of up to 38 HP in a single unit.* A single unit can provide cooling/heating for a space of 400m². The space-saving advantages are particularly obvious for large projects.

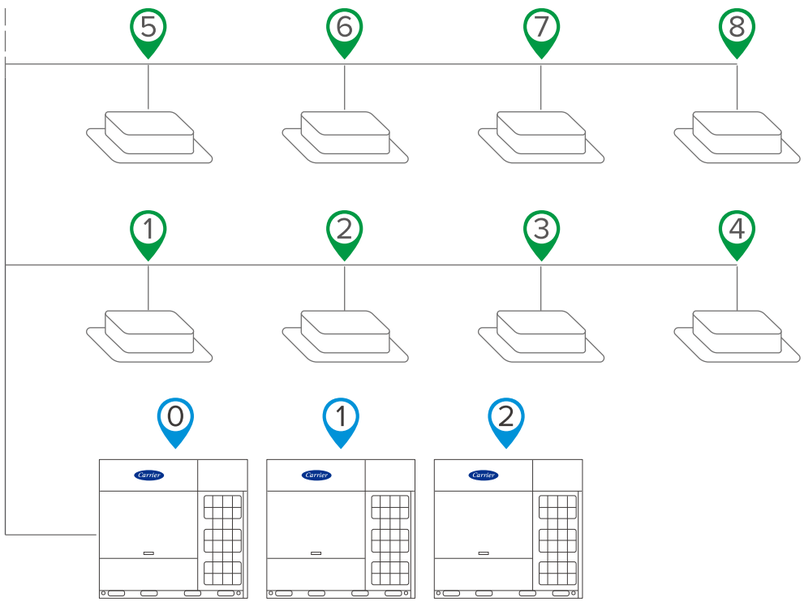




*Only in Heat Pump

Auto Addressing

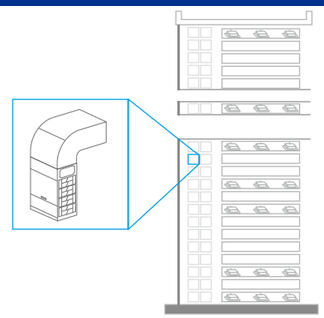
Addresses for all indoor units and combined outdoor units can be assigned automatically by the X power system, further simplifying installation.



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.

*High external static pressure upto 120 pa is a customize option.



Automatic Refrigerant Charging*

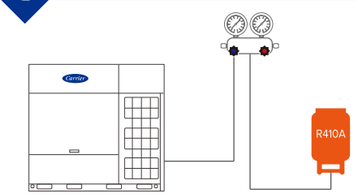
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

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

Automatic refrigerant charging

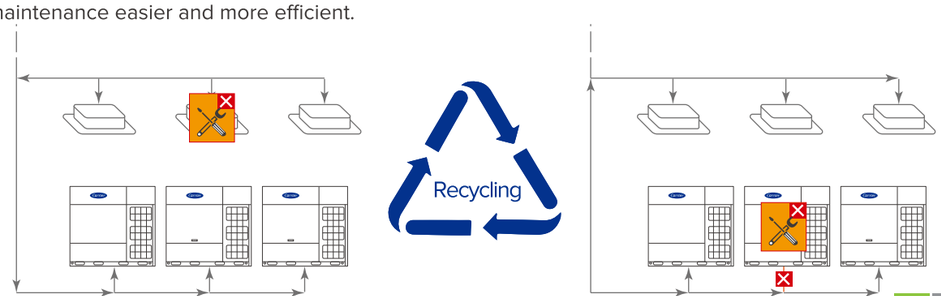
1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish filling process



*This function is available as a customization option.

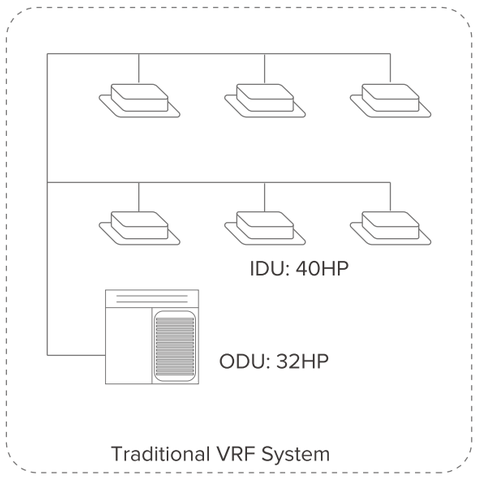
Automatic Refrigerant Recycling

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.

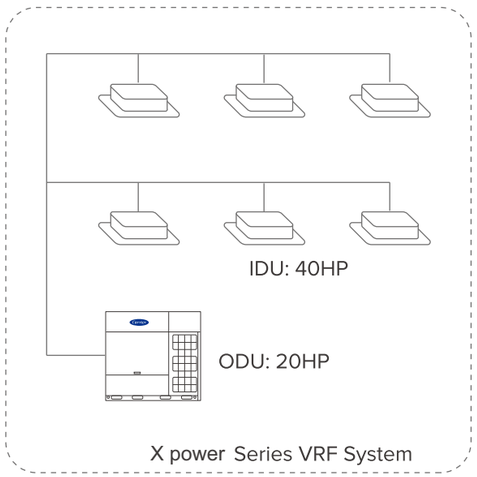


Wide Combination Ratio*

Compared to traditional VRF with combination ratio of 50-130%, the X power 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



X power Series VRF System

*Combination ratio over 130% is available as a customization option. Please contact Carrier for more details.

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.

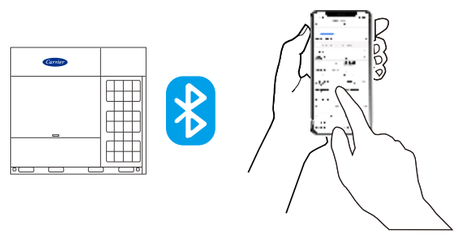
*Optional feature selected IDU

Smart Commissioning/Maintenance Tool

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

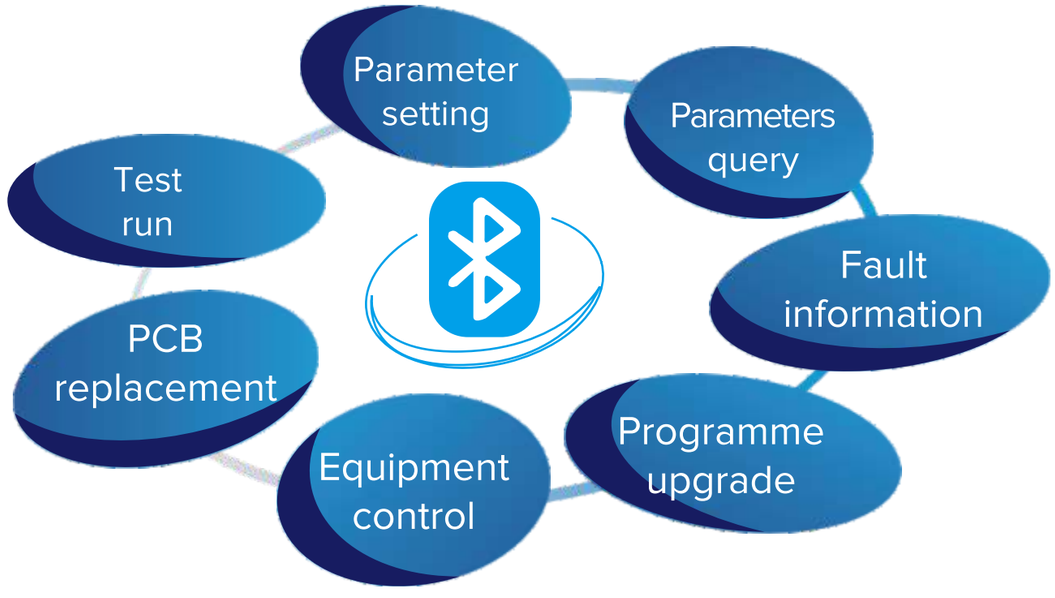
Useful in the following situations:

- Installation
- Service maintenance

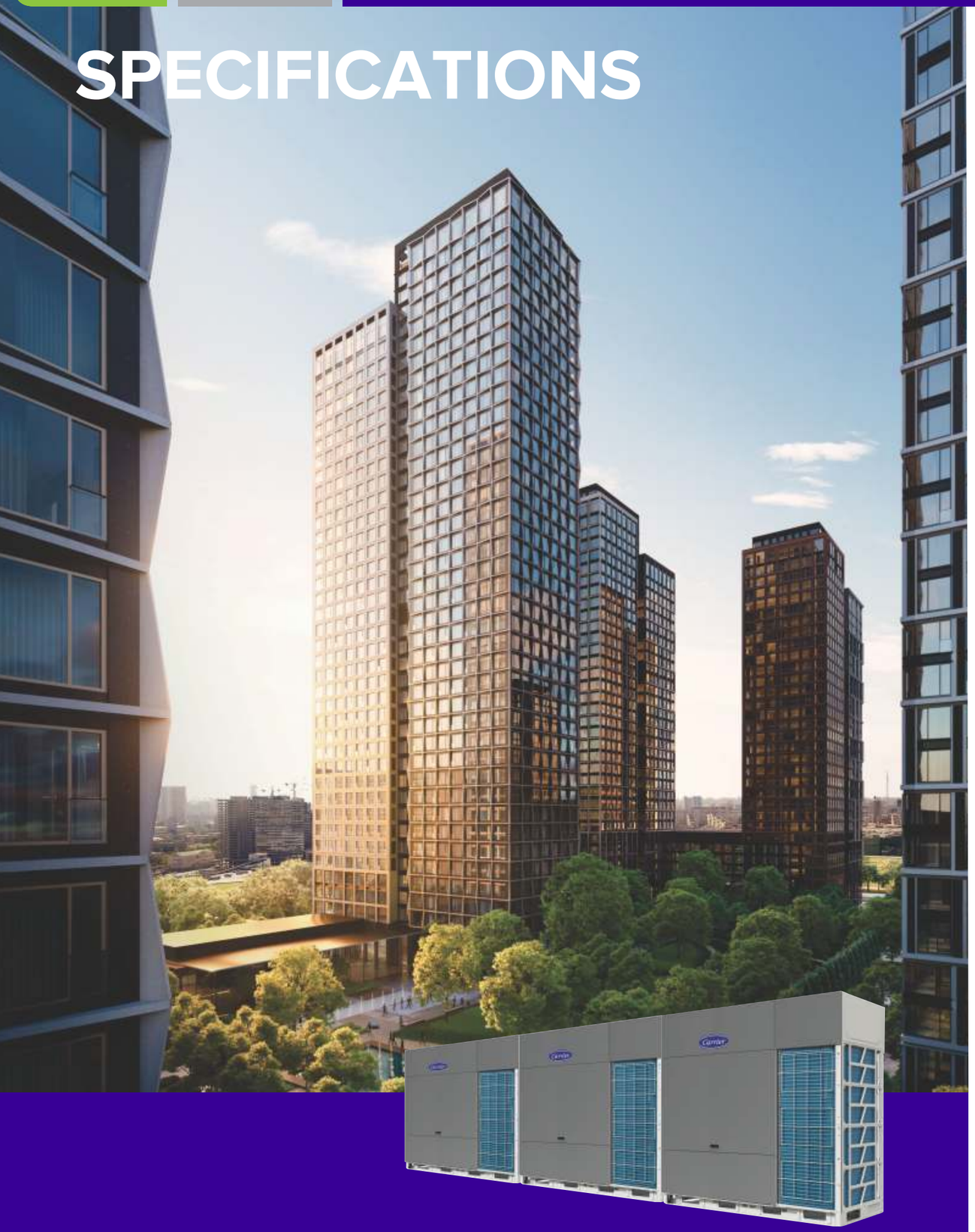


Main functions:

- 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



X power (Standard combination)*

HP			8	10	12	14
						
Model			38VF008H119018-X	38VF010H119018-X	38VF012H119018-X	38VF014H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	25.2	28	33.5	40
		kBtu/h	86	95.5	114.3	136.5
Heating[2]	Capacity	kW	27	31.5	37.5	45
		kBtu/h	92.1	107.5	128	153.5
Maximum indoor unit Combinations			13	16	19	23
Compressor	Type		DC Scroll Inverter			
	Quantity		1			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1			
	Motor output	kW	0.56			
	Airflow rate	m³/h	12600	12600	13500	14400
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	7	7	7	7
Pipe connections[3]	Liquid pipe	mm	Φ12.7			
	Gas pipe	mm	Φ25.4			
Sound pressure level[4]		dB(A)	56	57	59	
Net dimensions (W×H×D)		mm	940×1760×825			
Net weight		kg	195		197	
Ambient temp. operation range	Cooling	°C	-15 to 55			
	Heating	°C	-30 to 30			

HP			16	18	20	22
						
Model			38VF016H119018-X	38VF018H119018-X	38VF020H119018-X	38VF022H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	45	50	56	61.5
		kBtu/h	153.5	170.6	191.1	209.8
Heating[2]	Capacity	kW	50	56	63	69
		kBtu/h	170.6	191.1	215	235.4
Maximum indoor unit Combinations			26	29	33	36
Compressor	Type		DC Scroll Inverter			
	Quantity		1			2
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1			2
	Motor output	kW	0.92			0.56×2
	Airflow rate	m³/h	15600	15600	16500	22000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8	8	8.4	9.3
Pipe connections[3]	Liquid pipe	mm	Φ15.9			
	Gas pipe	mm	Φ28.6			
Sound pressure level[4]		dB(A)	59	60	61	62
Net dimensions (W×H×D)		mm	940×1760×825			1340×1760×825
Net weight		kg	213		215	295
Ambient temp. operation range	Cooling	°C	-15 to 55			
	Heating	°C	-30 to 30			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5 m 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 X Power Technical 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.

*Heat Pump

X power (Standard combination)*

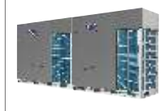
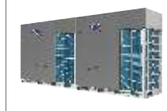
HP			24	26	28	30
						
Model			38VF024H119018-X	38VF026H119018-X	38VF028H119018-X	38VF030H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	67	73	78.5	85
		kBtu/h	228.6	249.1	267.9	290
Heating[2]	Capacity	kW	75	81.5	87.5	95
		kBtu/h	255.9	278.1	298.6	324.2
Maximum indoor unit Combinations			39	43	46	50
Compressor	Type		DC Scroll Inverter			
	Quantity		2			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		2			
	Motor output	kW	0.56×2			0.92×2
	Airflow rate	m³/h	22000	21500	21500	29000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	9.3	12	12	19
Pipe connections[3]	Liquid pipe	mm	Φ15.9			Φ22.2
	Gas pipe	mm	Φ28.6			Φ31.8
Sound pressure level[4]		dB(A)	62			63
Packed dimensions (W×H×D)		mm	1405×1945×890			1945×1945×890
Gross weight		kg	315	335		403
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

HP			32	34	36	38
						
Model			38VF032H119018-X	38VF034H119018-X	38VF036H119018-X	38VF038H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	90	95.2	101	106
		kBtu/h	307.1	324.8	344.6	361.7
Heating[2]	Capacity	kW	100	106	112	119
		kBtu/h	341.2	361.7	382.2	406
Maximum indoor unit Combinations			53	56	59	62
Compressor	Type		DC Scroll Inverter			
	Quantity		2			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		2			
	Motor output	kW	0.92×2			
	Airflow rate	m³/h	28000	28000	29000	29000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	21	21	21	21
Pipe connections[3]	Liquid pipe	mm	Φ22.2			
	Gas pipe	mm	Φ34.9			
Sound pressure level[4]		dB(A)	64		66	
Net dimensions (W×H×D)		mm	1880×1760×825			
Net weight		kg	405		408	
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5 m 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 X Power Technical 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.

*Heat Pump

X power (Standard combination)*

HP			40	42	44	46
						
Model			38VF040H119018-X	38VF042H119018-X	38VF044H119018-X	38VF046H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	111.5	117	123	128.5
		kBtu/h	380.4	399.2	419.7	438.5
Heating[2]	Capacity	kW	125	131	137.5	143.5
		kBtu/h	426.5	447	469.2	489.7
Maximum indoor unit Combinations			64	64	64	64
Compressor	Type		DC Scroll Inverter			
	Quantity		3			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		3			
	Motor output	kW	0.56×2+0.92			
	Airflow rate	m³/h	37600	37600	37100	37100
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8+9.3	8+9.3	8+12	8+12
Pipe connections[3]	Liquid pipe	mm	Φ19.1			
	Gas pipe	mm	Φ38.1			
Sound pressure level[4]		dB(A)	65			
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)			
Net weight		kg	213+295		213+315	
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

HP			48	50	52	54
						
Model			38VF048H119018-X	38VF050H119018-X	38VF052H119018-X	38VF054H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	135	140	145.5	151
		kBtu/h	460.6	477.7	496.5	515.2
Heating[2]	Capacity	kW	151	156.5	162.5	169
		kBtu/h	515.3	534	554.5	576.6
Maximum indoor unit Combinations			64	64	64	64
Compressor	Type		DC Scroll Inverter			
	Quantity		3	4		3
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		3	4		3
	Motor output	kW	0.92×3	0.56×4		0.92×3
	Airflow rate	m³/h	44600	43500	43500	44600
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8+19	9.3+12	9.3+12	8+21
Pipe connections[3]	Liquid pipe	mm	Φ19.1			
	Gas pipe	mm	Φ38.1			
Sound pressure level[4]		dB(A)	66			
Net dimensions (W×H×D)		mm	(940×1760×825)+(1880×1760×825)	(1340×1760×825)×2		(940×1760×825)+(1880×1760×825)
Net weight		kg	213+373	295+315		213+408
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5 m 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 X Power Technical 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.

*Heat Pump

X power (Standard combination)*

HP			56	58	60	62
						
Model			38VF056H119018-X	38VF058H119018-X	38VF060H119018-X	38VF062H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	156	162	167.5	173
		kBtu/h	532.3	552.8	571.5	590.3
Heating[2]	Capacity	kW	175	182	188	194
		kBtu/h	597.1	621	641.4	661.9
Maximum indoor unit Combinations			64	64	64	64
Compressor	Type		DC Scroll Inverter			
	Quantity		3		4	
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		3		4	
	Motor output	kW	0.92×3		0.56×2+0.92×2	
	Airflow rate	m³/h	44600	45500	51000	51000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8+21	8.4+21	9.3+21	9.3+21
Pipe connections[3]	Liquid pipe	mm	Φ19.1			
	Gas pipe	mm	Φ41.3			
Sound pressure level[4]		dB(A)	66			
Net dimensions (W×H×D)		mm	(940×1760×825)+(1880×1760×825)		(1340×1760×825)+(1880×1760×825)	
Net weight		kg	213+408	215+408	295+408	
Ambient temp.	Cooling	℃	-15 to 55			
operation range	Heating	℃	-30 to 30			

HP			64	66	68	70
						
Model			38VF064H119018-X	38VF066H119018-X	38VF068H119018-X	38VF070H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	179	184.5	191	196
		kBtu/h	610.8	629.6	651.7	668.8
Heating[2]	Capacity	kW	200.5	206.5	214	219
		kBtu/h	684.1	704.6	730.2	747.2
Maximum indoor unit Combinations			64	64	64	64
Compressor	Type		DC Scroll Inverter			
	Quantity		4			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		4			
	Motor output	kW	0.56×2+0.92×2		0.92×4	
	Airflow rate	m³/h	50500	50500	58000	57000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	12+21	12+21	19+21	21×2
Pipe connections[3]	Liquid pipe	mm	Φ19.1		Φ22.2	
	Gas pipe	mm	Φ41.3		Φ44.5	
Sound pressure level[4]		dB(A)	66			
Net dimensions (W×H×D)		mm	(1340×1760×825)+(1880×1760×825)		(1880×1760×825)×2	
Net weight		kg	315+408		373+408	405+408
Ambient temp.	Cooling	℃	-15 to 55			
operation range	Heating	℃	-30 to 30			

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5 m 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 X Power Technical 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.

*Heat Pump

X power (Standard combination)*

HP			72	74	76	78
						
Model			38VF072H119018-X	38VF074H119018-X	38VF076H119018-X	38VF078H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	201.2	207	212	217.5
		kBtu/h	686.5	706.3	723.4	742.1
Heating[2]	Capacity	kW	225	231	238	244
		kBtu/h	767.7	788.2	812	832.5
Maximum indoor unit Combinations			64	64	64	64
Compressor	Type		DC Scroll Inverter			
	Quantity		4			5
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		4			5
	Motor output	kW	0.92×4			0.56×2+0.92×3
	Airflow rate	m³/h	57000	58000	58000	66600
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	21×2	21×2	21×2	8+9.3+21
Pipe connections[3]	Liquid pipe	mm	Φ22.2			
	Gas pipe	mm	Φ44.5			
Sound pressure level[4]		dB(A)	66		67	
Net dimensions (W×H×D)		mm	(1880×1760×825)×2			(940×1760×825)+(1340×1760×825)+(1880×1760×825)
Net weight		kg	405+408	408×2		213+295+408
Ambient temp.	Cooling	℃	-15 to 55			
operation range	Heating	℃	-30 to 30			

HP			80	82	84	86
						
Model			38VF080H119018-X	38VF082H119018-X	38VF084H119018-X	38VF086H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	223	229	234.5	241
		kBtu/h	760.9	781.4	800.2	822.3
Heating[2]	Capacity	kW	250	256.5	262.5	270
		kBtu/h	853	875.2	895.7	921.3
Maximum indoor unit Combinations			64	64	64	64
Compressor	Type		DC Scroll Inverter			
	Quantity		5			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		5			
	Motor output	kW	0.56×2+0.92×3			0.92×5
	Airflow rate	m³/h	66600	66100	66100	73600
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8+9.3+21	8+12+21	8+12+21	8+19+21
Pipe connections[3]	Liquid pipe	mm	Φ22.2		Φ25.4	
	Gas pipe	mm	Φ44.5		Φ50.8	
Sound pressure level[4]		dB(A)	67		68	
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)+(1880×1760×825)			(940×1760×825)+
Net weight		kg	213+295+408	213+315+408		213+373+408
Ambient temp.	Cooling	℃	-15 to 55			
operation range	Heating	℃	-30 to 30			

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5 m 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 X Power Technical 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.

*Heat Pump

X power (Standard combination)*

HP			88	90	92	94
						
Model			38VF088H119018-X	38VF090H119018-X	38VF092H119018-X	38VF094H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	246	251.5	257	262
		kBtu/h	839.4	858.2	876.9	894
Heating[2]	Capacity	kW	275.5	281.5	288	294
		kBtu/h	940	960.5	982.6	1003.1
Maximum indoor unit Combinations			64	64	64	64
Compressor	Type		DC Scroll Inverter			
	Quantity		6		5	
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		6		5	
	Motor output	kW	0.56×4+0.92×2		0.92×5	
	Airflow rate	m³/h	72500	72500	73600	73600
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	9.3+12+21	9.3+12+21	8+21×2	8+21×2
Pipe connections[3]	Liquid pipe	mm	Φ25.4			
	Gas pipe	mm	Φ50.8			
Sound pressure level[4]		dB(A)	68			
Net dimensions (W×H×D)		mm	(1340×1760×825)×2+(1880×1760×825)		(940×1760×825)+(1880×1760×825)×2	
Net weight		kg	295+315+408		213+408×2	
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

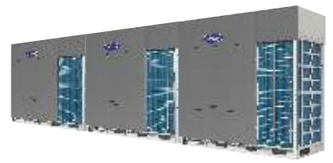
HP			96	98	100	102
						
Model			38VF096H119018-X	38VF098H119018-X	38VF0100H119018-X	38VF0102H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	268	273.5	279	285
		kBtu/h	914.5	933.2	952	972.5
Heating[2]	Capacity	kW	301	307	313	319.5
		kBtu/h	1027	1047.4	1067.9	1090.1
Maximum indoor unit Combinations			64	64	64	64
Compressor	Type		DC Scroll Inverter			
	Quantity		5	6		
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		5	6		
	Motor output	kW	0.92×5	0.56×2+0.92×4		
	Airflow rate	m³/h	74500	80000	80000	79500
	Drive type		Direct			
Refrigerant	Type		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			
	Gas pipe	mm	Φ50.8			
Sound pressure level[4]		dB(A)	68			
Net dimensions (W×H×D)		mm	(940×1760×825)+(1880×1760×825)×2	(1340×1760×825)+(1880×1760×825)×2		
Net weight		kg	215+408×2	295+408×2		315+408×2
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5 m 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 X Power Technical 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.

*Heat Pump

X power (Standard combination)*

HP			104	106	108	110
						
Model			38VF0104H119018-X	38VF0106H119018-X	38VF0108H119018-X	38VF0110H119018-X
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	290.5	297	302.2	307.2
		kBtu/h	991.3	1013.4	1031.2	1048.2
Heating[2]	Capacity	kW	325.5	333	337	344
		kBtu/h	1110.6	1136.2	1149.9	1173.7
Maximum indoor unit Combinations			64	64	64	64
Compressor	Type		DC Scroll Inverter			
	Quantity		6			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		6			
	Motor output	kW	0.56×2+0.92×4	0.92×6		
	Airflow rate	m³/h	79500	87000	86000	86000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	12+21×2	19+21×2	21×3	21×3
Pipe connections[3]	Liquid pipe	mm	Φ25.4			
	Gas pipe	mm	Φ50.8			Φ28.6
Sound pressure level[4]		dB(A)	68			Φ54.0
Net dimensions (W×H×D)		mm	(1340×1760×825)+(1880×1760×825)×2	(1880×1760×825)×3		
Net weight		kg	315+408×2	373+408×2	405+408×2	
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

HP			112	114
				
Model			38VF0112H119018-X	38VF0114H119018-X
Power supply		V/Ph/Hz	380-415/3/50	
Cooling[1]	Capacity	kW	313	318
		kBtu/h	1068	1085.1
Heating[2]	Capacity	kW	350	357
		kBtu/h	1194.2	1218
Maximum indoor unit Combinations			64	64
Compressor	Type		DC Scroll Inverter	
	Quantity		6	
	Oil type		FVC68D	
	Start-up method		Soft start	
Fan	Type		Propeller	
	Motor type		DC	
	Quantity		6	
	Motor output	kW	0.92×6	
	Airflow rate	m³/h	87000	87000
	Drive type		Direct	
Refrigerant	Type		R410A	
	Factory charge	kg	21×3	21×3
Pipe connections[3]	Liquid pipe	mm	Φ28.6	
	Gas pipe	mm	Φ54.0	
Sound pressure level[4]		dB(A)	68	
Net dimensions (W×H×D)		mm	(1880×1760×825)×3	
Net weight		kg	408×3	
Ambient temp.	Cooling	°C	-15 to 55	
operation range	Heating	°C	-30 to 30	

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5 m 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 X Power Technical 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.

*Heat Pump

X power(i)

HP			8	10	12	14
						
Model			38VF008H119018-Xi	38VF010H119018-Xi	38VF012H119018-Xi	38VF014H119018-Xi
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	25.2	28	33.5	40
		kBtu/h	86	95.5	114.3	136.5
Heating[2]	Capacity	kW	27	31.5	37.5	45
		kBtu/h	92.1	107.5	128	153.5
Maximum indoor unit Combinations			13	16	19	23
Compressor	Type		DC Scroll Inverter			
	Quantity		1			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1			
	Motor output	kW	0.56			
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	7	7	7	7
Pipe connections[3]	Liquid pipe	mm	Φ12.7			
	Gas pipe	mm	Φ25.4			
Sound pressure level[4]		dB(A)	56	57	59	
Net dimensions (W×H×D)		mm	940×1760×825			
Net weight		kg	195		197	
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

HP			16	18	20	22
						
Model			38VF016H119018-Xi	38VF018H119018-Xi	38VF020H119018-Xi	38VF022H119018-Xi
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	45	50	56	61.5
		kBtu/h	153.5	170.6	191.1	209.8
Heating[2]	Capacity	kW	50	56	63	69
		kBtu/h	170.6	191.1	215	235.4
Maximum indoor unit Combinations			26	29	33	36
Compressor	Type		DC Scroll Inverter			
	Quantity		1			2
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1			2
	Motor output	kW	0.92			0.56×2
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8	8	8.4	9.3
Pipe connections[3]	Liquid pipe	mm	Φ15.9			
	Gas pipe	mm	Φ28.6			
Sound pressure level[4]		dB(A)	60	61	62	
Net dimensions (W×H×D)		mm	940×1760×825			1340×1760×825
Net weight		kg	213		215	295
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-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.

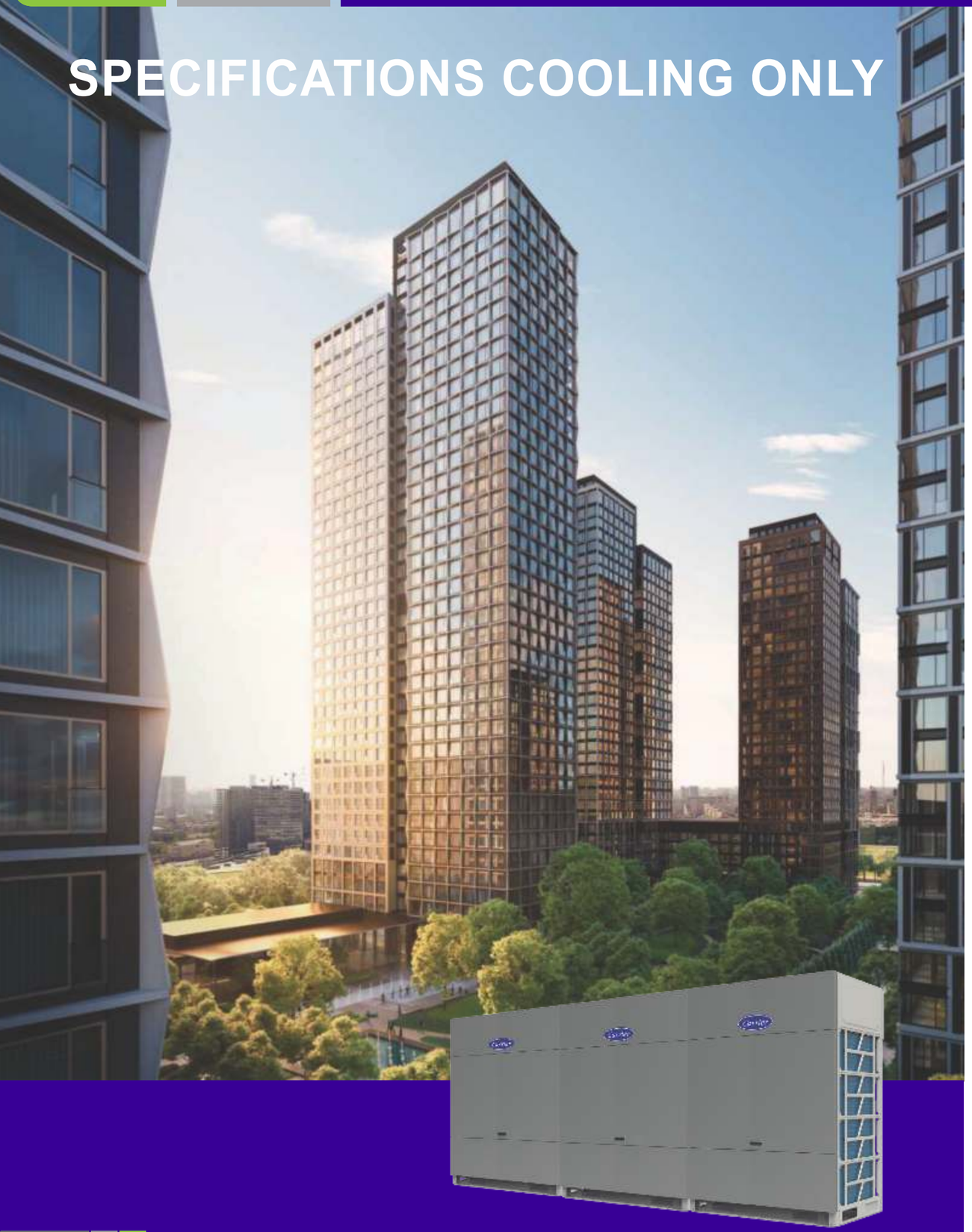
X power(i)

HP			24	26	28	30
						
Model			38VF024H119018-Xi	38VF026H119018-Xi	38VF028H119018-Xi	38VF030H119018-Xi
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	67	73	78.5	85
		kBtu/h	228.6	249.1	267.9	290
Heating[2]	Capacity	kW	75	81.5	87.5	95
		kBtu/h	255.9	278.1	298.6	324.2
Maximum indoor unit Combinations			39	43	46	50
Compressor	Type		DC Scroll Inverter			
	Quantity		2			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		2			
	Motor output	kW	0.56×2			0.92×2
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	9.3	12	12	19
Pipe connections[3]	Liquid pipe	mm	Φ15.9			Φ22.2
	Gas pipe	mm	Φ28.6			Φ31.8
Sound pressure level[4]		dB(A)	62		63	64
Net dimensions (W×H×D)		mm	1340×1760×825			1880×1760×825
Net weight		kg	295	315		373
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-30 to 30			

HP			32	34	36	38
						
Model			38VF032H119018-Xi	38VF034H119018-Xi	38VF036H119018-Xi	38VF038H119018-Xi
Power supply		V/Ph/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	90	95.2	101	106
		kBtu/h	307.1	324.8	344.6	361.7
Heating[2]	Capacity	kW	100	106	112	119
		kBtu/h	341.2	361.7	382.2	406
Maximum indoor unit Combinations			53	56	59	62
Compressor	Type		DC Scroll Inverter			
	Quantity		2			
	Oil type		FVC68D			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		2			
	Motor output	kW	0.92×2			
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	21	21	21	21
Pipe connections[3]	Liquid pipe	mm	Φ22.2			
	Gas pipe	mm	Φ34.9			
Sound pressure level[4]		dB(A)	64	66		67
Net dimensions (W×H×D)		mm	1880×1760×825			
Net weight		kg	405		408	
Ambient temp.	Cooling	°C	-15 to 55			
operation range	Heating	°C	-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.

SPECIFICATIONS COOLING ONLY



X Power (Cooling Only)

HP			8	10	12	14
						
Model name			38VF008C119018-X	38VF010C119018-X	38VF012C119018-X	38VF014C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	22.4	28.0	33.5	40.0
		kBtu/h	76.4	95.5	114.2	136.4
Connected indoor unit	Maximum quantity		13	16	19	23
Compressor	Type		DC Scroll Inverter			
	Quantity		1			
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1			
	Motor output	kW	0.56			
	Airflow rate	m3/h	12600	12600	13500	13500
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	7.4	7.4	7.4	7.4
Pipe connections[3]	Liquid pipe	mm	Φ12.7			Φ15.9
	Gas pipe	mm	Φ25.4			Φ28.6
Sound pressure level[3]		dB(A)	57	58	60	60
Net dimensions (W×H×D)		mm	940×1760×825			
Net weight		kg	185			
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

HP			16	18	20	22
						
Model name			A38VF016C119018-X	38VF018C119018-X	38VF020C119018-X	38VF022C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5			
Connected indoor unit	Maximum quantity		26	29	33	36
Compressor	Type		DC Scroll Inverter			
	Quantity		1			
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1			
	Motor output	kW	0.92			
	Airflow rate	m3/h	15600	15600	16500	16500
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8.4	8.4	10	10
Pipe connections[2]	Liquid pipe	mm	Φ15.9			Φ19.1
	Gas pipe	mm	Φ28.6			Φ31.8
Sound pressure level[3]		dB(A)	61	62	63	
Net dimensions (W×H×D)		mm	940×1760×825			
Net weight		kg	200		225	
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor air temperature 27℃ DB, 19℃ WB; outdoor air temperature 35℃ DB; equivalent refrigerant piping length 7.5mm 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 Part 3 System Design and Installation 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.

X Power (Cooling Only)

HP			24	26	28	30	32
							
Model name			38VF024C119018-X	38VF026C119018-X	38VF028C119018-X	38VF030C119018-X	38VF032C119018-X
Power supply		V/N/Hz	380-415/3/50				
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
Connectedindoor unit	Maximum quantity		39	43	46	50	53
Compressor	Type		DC scroll inverter				
	Quantity		1		2		
	Oil type		FV68H				
	Start-up method		Soft start				
Fan	Type		Propeller				
	Motor type		DC				
	Quantity		2				
	Motor output	kW	0.56+0.56				
	Airflow rate	m3/h	21500	21500	22000	22000	22000
	Drive type		Direct				
Refrigerant	Type		R410A				
	Factory charge	kg	12.8	12.8	15.4	15.4	15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ22.2			
	Gas pipe	mm	Φ31.8				
Sound pressure level[3]		dB(A)	64				
Net dimensions (W×H×D)		mm	1340×1760×825				
Net weight		kg	260			325	
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55

						
Model name (Combination unit)			38VF034C119018-X	38VF036C119018-X	38VF038C119018-X	38VF040C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	95.0	100.0	106.5	111.5
		kBtu/h	324.0	341.0	363.2	380.2
Connected indoor unit	Maximum quantity		56	59	62	64
Compressor	Type		DC scroll inverter			
	Quantity		2			
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		2			
	Motor output	kW	0.92×2			
	Airflow rate	m3/h	31200	31200	32100	32100
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8.4×2	8.4×2	8.4+10	8.4+10
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[3]		dB(A)	65	65	65	66
Net dimensions (W×H×D)		mm	(940×1760×825)×2			
Net weight		kg	200×2		200+225	
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor air temperature 27℃ DB, 19℃ WB; outdoor air temperature 35℃ DB; equivalent refrigerant piping length 7.5mm 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 Part 3 System Design and Installation 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.

X Power (Cooling Only)

HP			42	44	46	48
						
Model name (Combination unit)			38VF042C119018-X	38VF044C119018-X	38VF046C119018-X	38VF048C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	118.0	123.0	129.0	134.5
		kBtu/h	402.4	419.4	439.9	458.6
Connected indoor unit	Maximum quantity		64	64	64	64
Compressor	Type		DC scroll inverter			
	Quantity		2			
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		3			
	Motor output	kW	0.92+(0.56+0.56)			
	Airflow rate	m3/h	37100	37100	38000	38000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8.4+12.8	8.4+12.8	10+12.8	10+12.8
Pipe connections[2]	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[3]		dB(A)	66	66	67	67
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)			
Net weight		kg	200+260		225+260	
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

						
Model name (Combination unit)			38VF050C119018-X	38VF052C119018-X	38VF054C119018-X	38VF056C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	140.0	146.0	151.5	157.0
		kBtu/h	477.4	497.9	516.6	535.4
Connected indoor unit	Maximum quantity		64	64	64	64
Compressor	Type		DC scroll inverter			
	Quantity		2		3	
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		4		3	4
	Motor output	kW	(0.56+0.56)×2		0.92+(0.56+0.56)	(0.56+0.56)×2
	Airflow rate	m3/h	43000	43000	38500	43500
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	12.8×2	12.8×2	10+15.4	12.8+15.4
Pipe connections[2]	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[3]		dB(A)	67	67	67	67
Net dimensions (W×H×D)		mm	(1340×1760×825)×2		(940×1760×825)+(1340×1760×825)	(1340×1760×825)×2
Net weight		kg	260×2		225+325	260+325
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor air temperature 27℃ DB, 19℃ WB; outdoor air temperature 35℃ DB; equivalent refrigerant piping length 7.5mm 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 Part 3 System Design and Installation 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.

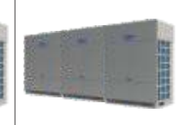
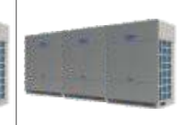
X Power (Cooling Only)

HP			58	60	62	64
						
Model name (Combination unit)			38VF058C119018-X	38VF060C119018-X	38VF062C119018-X	38VF064C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	163.0	168.5	175.0	180.0
		kBtu/h	555.8	574.6	596.8	613.8
Connected indoor unit	Maximum quantity		64	64	64	64
Compressor	Type		DC scroll inverter			
	Quantity		3	4		
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		4			
	Motor output	kW	(0.56+0.56)×2			
	Airflow rate	m3/h	43500	44000	44000	44000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	12.8+15.4	15.4×2	15.4×2	15.4×2
Pipe connections[2]	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[3]		dB(A)	67	67	67	67
Net dimensions (W×H×D)		mm	(1340×1760×825)×2			
Net weight		kg	260+325	325×2		
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

HP			66	68	70	72
						
Model name (Combination unit)			38VF066C119018-X	38VF068C119018-X	38VF070C119018-X	38VF072C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	185.0	190.0	196.5	201.5
		kBtu/h	630.9	647.9	670.1	687.1
Connected indoor unit	Maximum quantity		64	64	64	64
Compressor	Type		DC scroll inverter			
	Quantity		4			
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		4			
	Motor output	kW	0.92×2+(0.56+0.56)			
	Airflow rate	m3/h	53200	53200	54100	54100
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8.4×2+15.4	8.4×2+15.4	8.4+10+15.4	8.4+10+15.4
Pipe connections[2]	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[3]		dB(A)	67	68	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)×2+(1340×1760×825)			
Net weight		kg	200×2+325		200+225+325	
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor air temperature 27℃ DB, 19℃ WB; outdoor air temperature 35℃ DB; equivalent refrigerant piping length 7.5mm 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 Part 3 System Design and Installation 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.

X Power (Cooling Only)

HP			74	76	78	80
						
Model name (Combination unit)			38VF074C119018-X	38VF076C119018-X	38VF078C119018-X	38VF080C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	208.0	213.0	219.0	224.5
		kBtu/h	709.3	726.3	746.8	765.5
Connected indoor unit	Maximum quantity		64	64	64	64
Compressor	Type		DC scroll inverter			
	Quantity		4			
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		5			
	Motor output	kW	0.92+(0.56+0.56)×2			
	Airflow rate	m3/h	59100	59100	60000	60000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	8.4+12.8+15.4	8.4+12.8+15.4	10+12.8+15.4	10+12.8+15.4
Pipe connections[2]	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[3]		dB(A)	68	68	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)×2			
Net weight		kg	200+260+325		225+260+325	
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

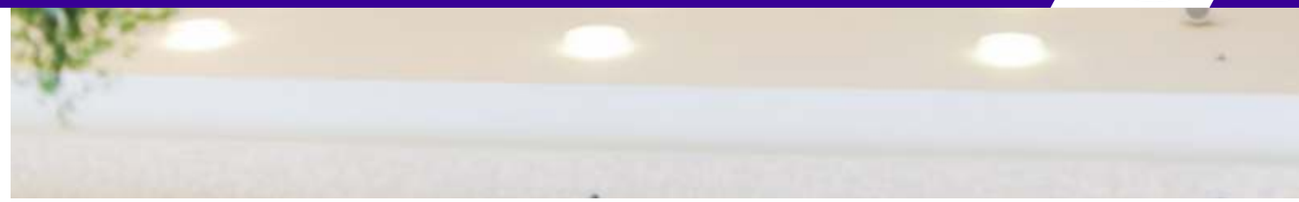
HP			82	84	86	88
						
Model name (Combination unit)			38VF082C119018-X	38VF084C119018-X	38VF086C119018-X	38VF088C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	230.0	236.0	241.5	247.0
		kBtu/h	784.3	804.8	823.5	842.3
Connected indoor unit	Maximum quantity		64	64	64	64
Compressor	Type		DC scroll inverter			
	Quantity		4		5	
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		6		5	6
	Motor output	kW	(0.56+0.56)×3		0.92+(0.56+0.56)×2	(0.56+0.56)×3
	Airflow rate	m3/h	65000	65000	60500	65500
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	12.8×2+15.4	12.8×2+15.4	10+15.4×2	12.8+15.4×2
Pipe connections[2]	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[3]		dB(A)	68	68	69	69
Net dimensions (W×H×D)		mm	(1340×1760×825)×3		(940×1760×825)+(1340×1760×825)×2	(1340×1760×825)×3
Net weight		kg	260×2+325		225+325×2	260+325×2
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor air temperature 27℃ DB, 19℃ WB; outdoor air temperature 35℃ DB; equivalent refrigerant piping length 7.5mm 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 Part 3 System Design and Installation 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.

X Power (Cooling Only)

HP			90	92	94	96
						
Model name (Combination unit)			38VF090C119018-X	38VF092C119018-X	38VF094C119018-X	38VF096C119018-X
Power supply		V/N/Hz	380-415/3/50			
Cooling[1]	Capacity	kW	253.0	258.5	265.0	270.0
		kBtu/h	862.7	881.5	903.7	920.7
Connected indoor unit	Maximum quantity		64	64	64	64
Compressor	Type		DC scroll inverter			
	Quantity		5	6		
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		6			
	Motor output	kW	(0.56+0.56)×3			
	Airflow rate	m3/h	65500	66000	66000	66000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	12.8+15.4×2	15.4×3	15.4×3	15.4×3
Pipe connections[2]	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[3]		dB(A)	69	69	69	69
Net dimensions (W×H×D)		mm	(1340×1760×825)×3			
Net weight		kg	260+325×2	325×3		
Ambient temp. operation range	Cooling	℃	-15 to 55	-15 to 55	-15 to 55	-15 to 55

Notes:
1. Indoor air temperature 27℃ DB, 19℃ WB; outdoor air temperature 35℃ DB; equivalent refrigerant piping length 7.5mm 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 Part 3 System Design and Installation 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.



3rd Generation VRF INDOOR UNITS

Indoor Unit

Compact Four-way Cassette

Four-way Cassette

Two-way Cassette

One-way Cassette

Slim Duct

Medium Static Pressure Duct

High Static Pressure Duct

Wall Mounted

Floor Standing

Ceiling & Floor

Heat Recovery Ventilator

Fresh Air Unit

AHU kit

Indoor Unit Lineup

■ Compact Four-way Cassette

- Capacity: 0.4 TR to 1.8 TR
- 575mm compact body size
- 360° airflow
- Individual louver control
- 3.5m high ceiling installation
- Built-in 1200mm high-lift drain pump

■ Four-way Cassette

- Capacity: 0.8 TR to 5 TR
- 360° airflow, uniform air flow and temperature distribution
- Individual louver control
- Built-in 1200mm high-lift drain pump

■ Two-way Cassette

- Capacity: 0.6 TR - 2 TR
- Automatic anti-condensation
- Multiple Steps Vertical Swing
- Built-in 1200mm high-lift drain pump(Digital feedback DC water pump)

■ One-way Cassette

- Capacity: 0.6 TR - 2 TR
- Automatic anti-condensation
- Multiple Steps Vertical Swing
- Built-in 1200mm high-lift drain pump(Digital feedback DC water pump)

■ Slim Duct

- Capacity: 0.6 TR - 3.1 TR
- 199mm ultra-thin height (all models)
- C shaped coil
- 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 (Ceiling/floor mounted)

- Capacity: 0.6 TR - 4.5 TR
- 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

■ High Static Pressure Duct

- Capacity: 1.6 TR - 16 TR
- 5.6kW-16kW ESP up to 250Pa
- 20kW-56kW ESP up to 400Pa
- 299mm ultra-thin height (5.6kW-16kW)
- Static pressure adaption, constsant air volume supply
- Built-in 12mm high-lift drain pump
- Optional HEPA filter with H13 rating
- Optional medium to heigh efficiency filter

■ Wall Mounted

- Capacity: 0.6 TR - 2.2 TR
- 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

- Capacity: 0.6 TR - 2.2 TR
- ESP up to 60Pa
- Three appearance options to meet different
- installation requirement
  DC fan creates a more quiet and comfortable
- environment
- 0.5℃/1℃ Setting Temperature Adjustment

■ Ceiling&Floor

- Capacity: 1 TR - 4 TR
- 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

■ TFA

- Capacity: 2.5 TR - 16 TR
- Combines fresh air filtration with heating/cooling in single system
- Supports extensive duct and grille networks with up to 400Pa external static pressure
- Offers 20-step static pressure control (latest wired controllers required)
- Optional independent water pump box available

■ HRV

- Capacity: 200-2000m³/hr
- Multiple operation modes: Auto, Bypass, Heat recovery, Free cooling mode.
- Optional CO_2 Sensor
- Optional Multi-functional Expansion Board

Indoor Unit Lineup

3rd Generation Carrier VRF Indoor Units

Indoor Type		1-Way Cassette	2-Way Cassette	Compact 4-Way	4-Way Cassette	Slim Duct
Picture						
Capacity						
kW	HP	–	–	–	–	–
1.5	0.5	-	-	●	-	●
1.8	0.6	●	-	-	-	-
2.2	0.8	●	●	●	-	●
2.8	1	●	●	●	●	●
3.6	1.25	●	●	●	●	●
4.5	1.6	●	●	●	●	●
5.6	2	●	●	●	●	●
6.3	2.25	-	-	●	●	-
7.1	2.5	●	●	-	●	●
8	3	-	-	-	●	●
9	3.2	-	-	-	●	●
10	3.6	-	-	-	●	●
11.2	4	-	-	-	●	●
12.5	4.5	-	-	-	-	-
14	5	-	-	-	●	-
16	6	-	-	-	●	-
18	6.5	-	-	-	●	-
20	7	-	-	-	-	-
22.4	8	-	-	-	-	-
25	9	-	-	-	-	-
28	10	-	-	-	-	-
33.5	12	-	-	-	-	-
40	14	-	-	-	-	-
45	16	-	-	-	-	-
56	20	-	-	-	-	-

3rd Generation Carrier VRF Indoor Units

MSP Duct (Ceiling/floor mounted)	HSP Duct	Hi-Wall	Ceiling & Console	Front/Bottom Return Floor Standing	Concealed Floor Standing	Fresh Air Unit
						
–	–	–	–	–	–	-
●	-	●	-	-	-	-
–	–	-	-	-	-	-
●	–	●	-	●	●	-
●	–	●	-	●	●	-
●	–	●	●	●	●	-
●	–	●	●	●	●	-
●	●	●	●	●	●	-
-	-	-	-	-	-	-
●	●	●	●	●	●	-
●	●	●	●	●	●	-
●	●	-	●	-	-	●
-	-	-	●	-	-	-
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-	●	-	-	-	-	●
-	●	-	-	-	-	●
-	●	-	-	-	-	●
-	●	-	-	-	-	●

600
Compact design

360°
360° airflow

High ceiling installation

Individual louver control

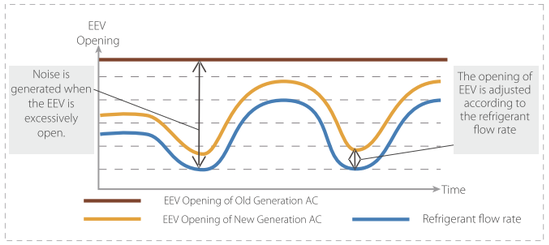
Healthy air supply

Compact Four-way Cassette

COMFORT

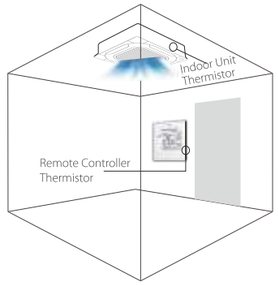
EEV automatic adjustment

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



Two thermistors control

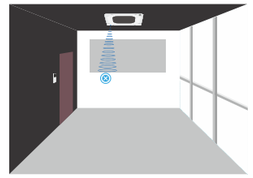
The indoor temperature can be checked using the thermistor in the remote controller as well as from the indoor unit



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 indore unit automatically runs when detecting human body

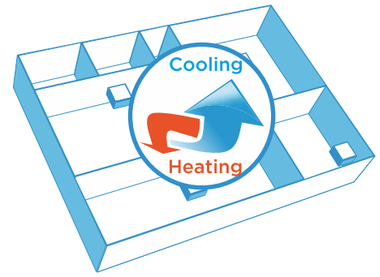


The indore unit automatically stops when detecting absence

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

Auto Cooling-heating Changeover

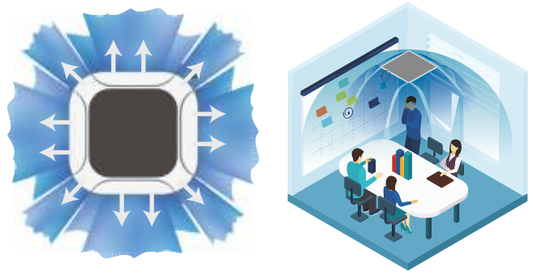
Automatically selects cooling or heating mode to achieve the set temperature.



AIR FLOW

360° Airflow

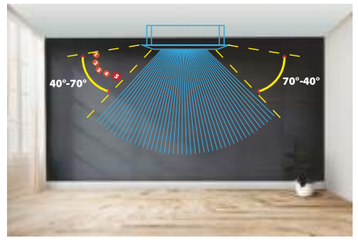
New design, round airflow path ensures uniform airflow and temperature distribution.



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

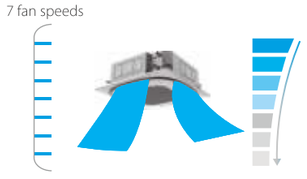
Multiple Steps Vertical Swing

The Compact Four-way Cassette unit has a wide range of airflow angles from 40° to 70° and is equipped with a 5-step louver control and auto swing mode to better meet the needs of different customers



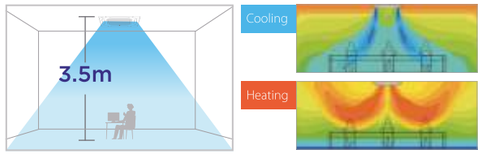
7 Fan Speeds

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



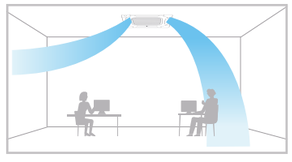
Long Distance Air Delivery

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



Individual Louver Control

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



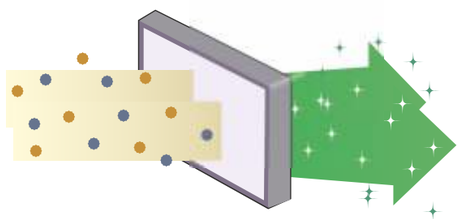
Soft Wind Mode

Supplies air against the ceiling to create windless environment.

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.

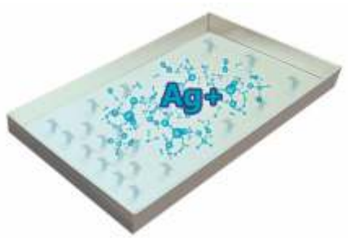


Mildew proof of heat exchanger

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)

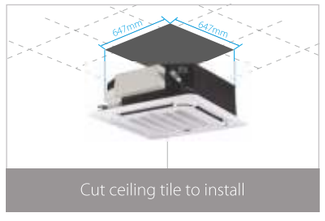
Slow-released nano-silver ions can keep the drain pan free of mold for a long time.



EASY INSTALLATION

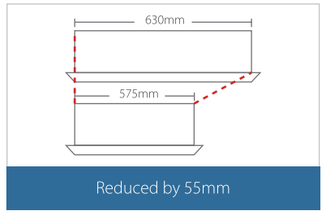
Compact and stylish design

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

High-lift drain pump

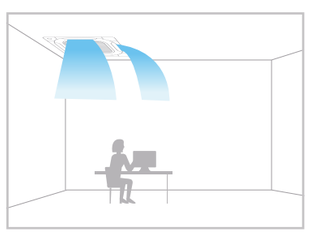
A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.

Water level switch

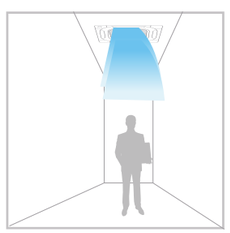
When the drain pipe is blocked or the drain pipe is poor, the water level switch is turned off, and there is no need to worry about overflowing the ceiling.

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

360°
airflow

Individual
louver control

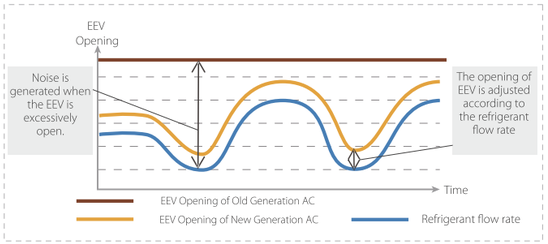
Healthy
air supply

Four-way Cassette

COMFORT

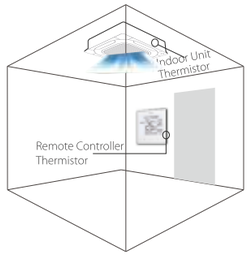
EEV automatic adjustment

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



Two thermistors control

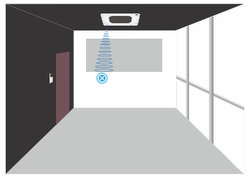
The indoor temperature can be checked using the thermistor in the remote controller as well as from the indoor unit



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

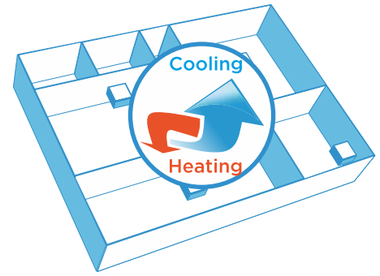


The indoor unit automatically stops when detecting absence

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

Auto Cooling-heating Changeover

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



AIR FLOW

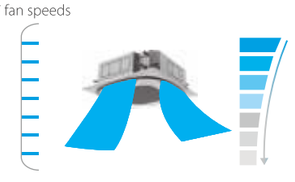
360° Airflow

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

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

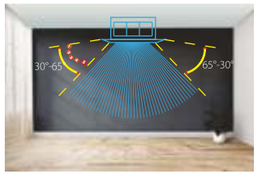
7 Fan Speeds

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



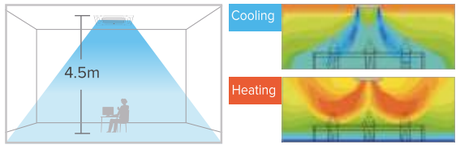
Multiple Steps Vertical Swing

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



Long Distance Air Delivery*

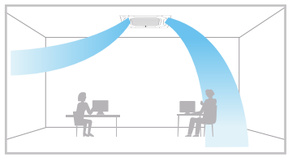
The Four-way Cassette has an additional 50Pa static pressure for long airflow delivery and is capable of being used in spaces up to 4.5m in floor height.



*This function is available as a customization option.

Individual Louver Control

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



Soft Wind Mode

Supplies air against the ceiling to create windless environment.

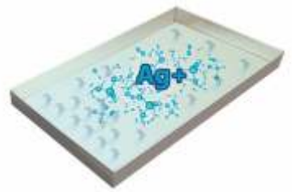
HEALTH

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)

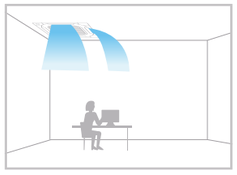
Slow-released nano-silver ions can keep the drain pan free of mold for a long time.



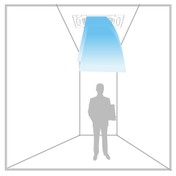
EASY INSTALLATION

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.



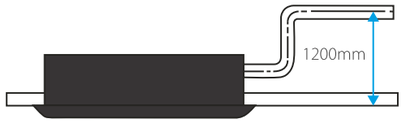
At the corner



In the narrow room

High-lift drain pump

A drain pump with a 1200mm raise height is fitted as standard, 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.

Free drainage

Quiet operation

High-lift drain pump

Two-way Cassette

COMFORT

Digital Display On/Off

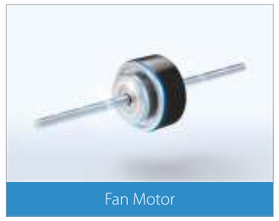
Indoor unit displays can be shut off at night, creating a better environment for rest.

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

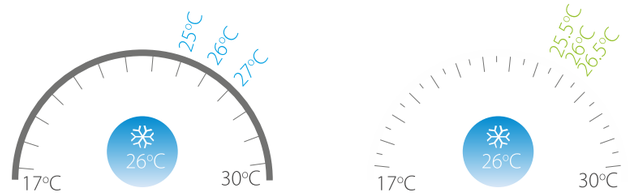
HEALTH

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

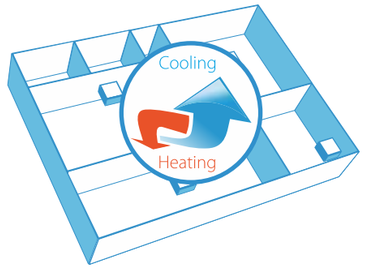
Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.



WIDER APPLICATION

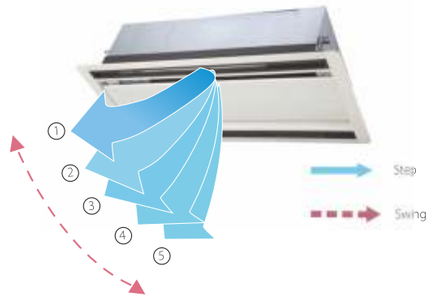
Auto Cooling-heating Changeover

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



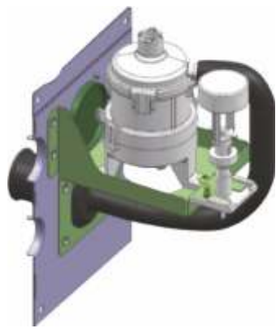
Multiple Steps Vertical Swing

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 °.



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.



High-lift drain pump

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

Free drainage

Quiet operation

High-lift drain pump

One-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

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

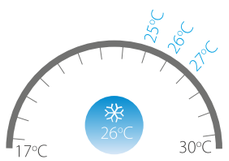
HEALTH

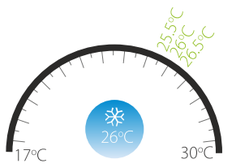
Automatic anti-condensation

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.

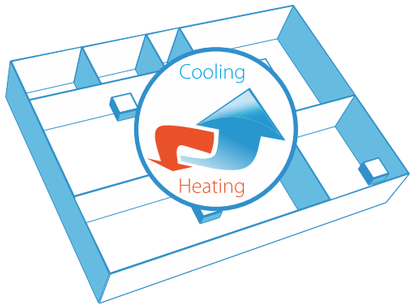




WIDER APPLICATION

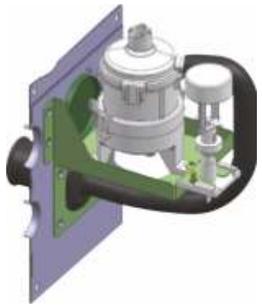
Auto Cooling-heating Changeover

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



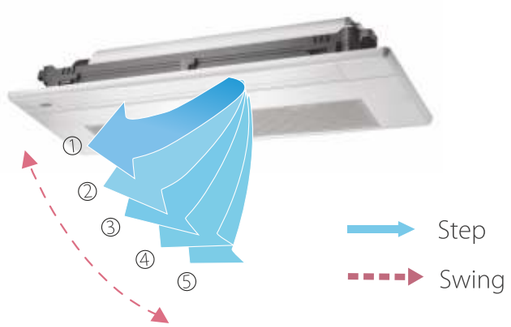
Digital feedback DC water pump

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.



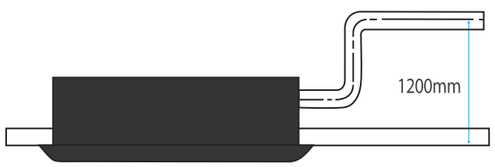
Multiple Steps Vertical Swing

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 25-80°.



High-lift drain pump

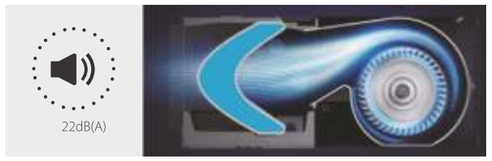
A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.



COMFORT

Quiet Operation

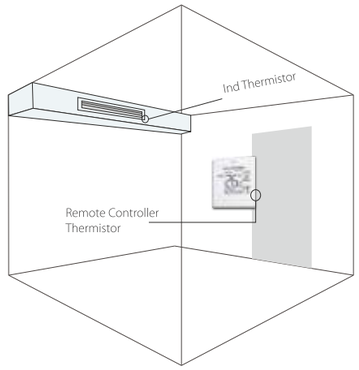
By optimizing the design of fan motor, air duct and heat exchanger, the new duct operates with noise as low as 22dB(A), creating a quieter and more comfortable environment.



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

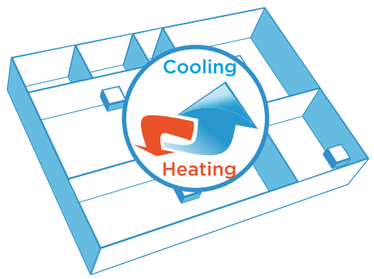
Two thermistors control

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



Auto Cooling-heating Changeover

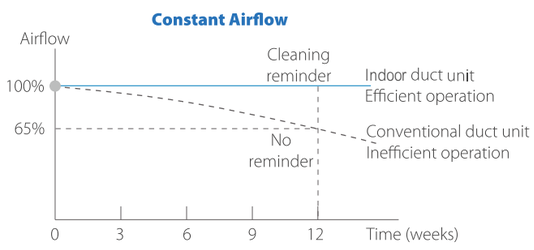
Automatically selects cooling or heating mode to achieve the set temperature.



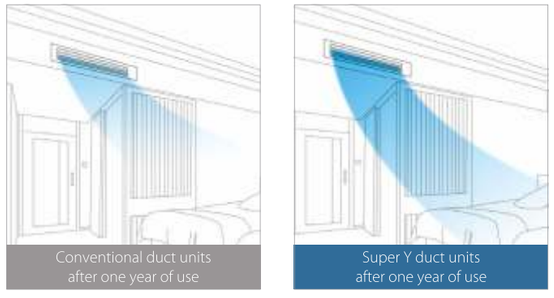
AIR FLOW

Constant Airflow

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



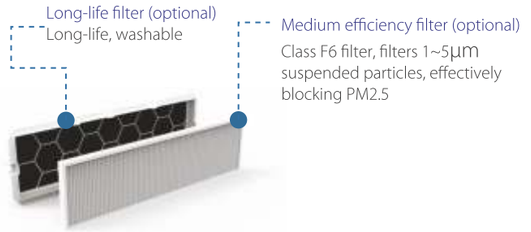
***Data measured in the UX lab of Carrier**

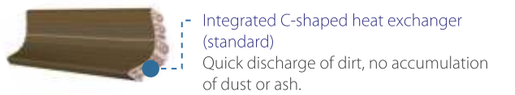


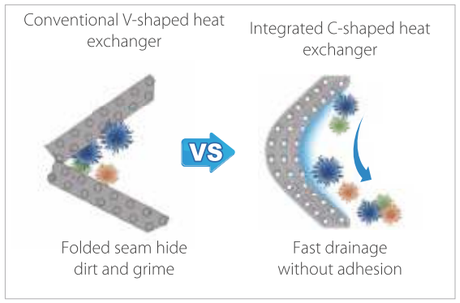
HEALTH

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.







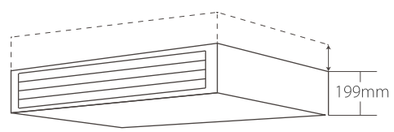
Silver Ions drain pan (optional)

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

EASY INSTALLATION

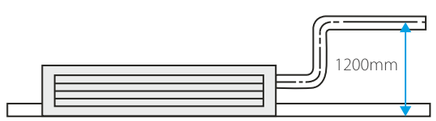
Ultra-thin Body

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



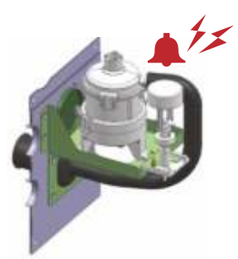
High-lift drain pump

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.



Compact design

Healthy air supply

Constant air volume

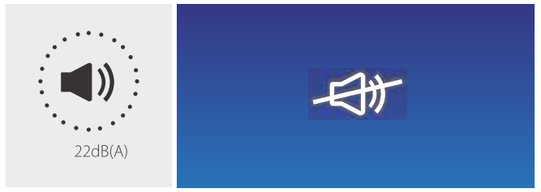
Flexible installation

Medium Static Pressure Duct

COMFORT

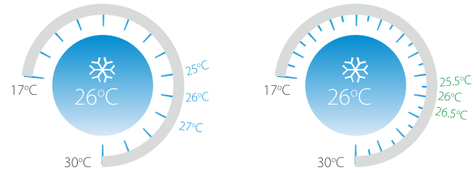
Quiet Operation

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.



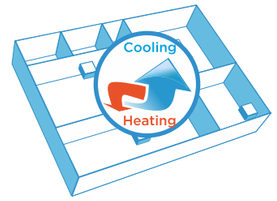
0.5°C/1°C Setting Temperature Adjustment

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



Auto Cooling-heating Changeover

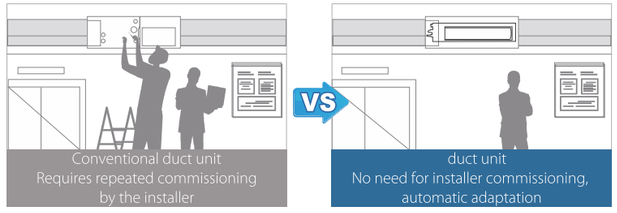
Automatically selects cooling or heating mode to achieve the set temperature.



AIR FLOW

Adaptive Duct Length and Filter Resistance

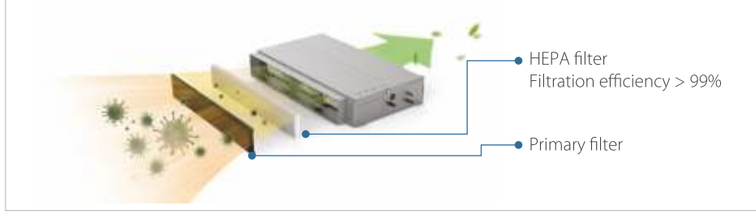
By digital fan motor and a specially designed independent drive chip enables precise control and output on demand. It can automatically adapt to duct lengths from 10 to 160 Pa equivalent static pressure without intervention from the installer.



HEALTH

Optional High Efficiency HEPA Filter*

A static pressure of up to 160 Pa enables the application of medical-grade HEPA filters, and even small capacity models can be equipped with high-efficiency filters, efficiently filtering fine particles of 0.5 microns with an efficiency of over 99%.

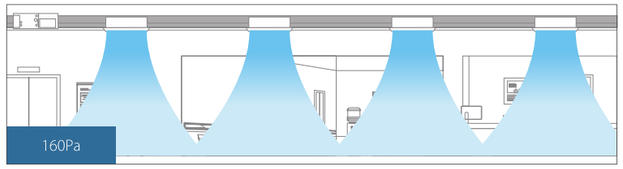


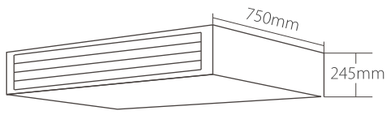
* This function is available as a customization option.

EASY INSTALLATION

Thin Body with High ESP

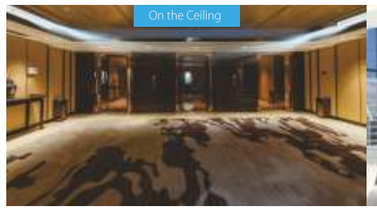
All models have a static pressure of 160 Pa and a thickness of only 245 mm. The high static pressure allows air to be delivered over longer distances without loss of cooling and heating effect. Especially suitable for long and narrow spaces.

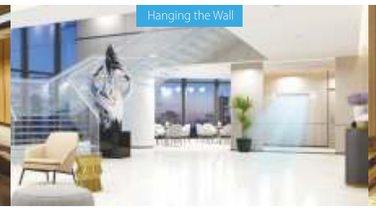


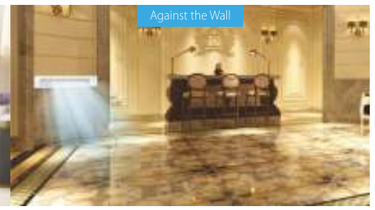


3 Way flexible installation

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.

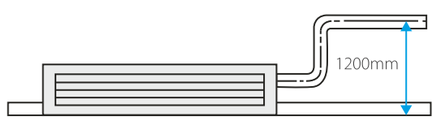






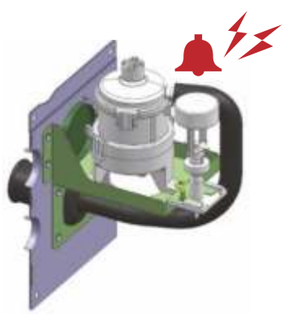
High-lift drain pump

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.



Compact design

Healthy air supply

Constant air volume

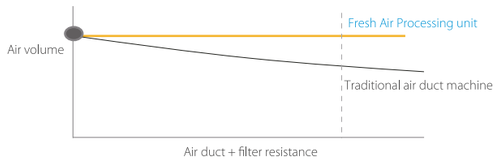
Flexible installation

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.



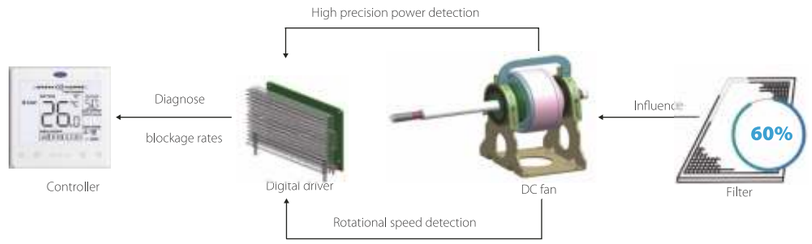
Ultra-high static pressure

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 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.



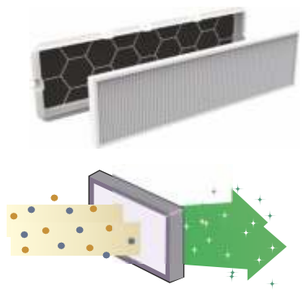
Innovative Puro-air Kit

Protectors of health and safety

*The indoor unit needs to be customized in order to use the Puro-air Kit.

Efficiency filter screen

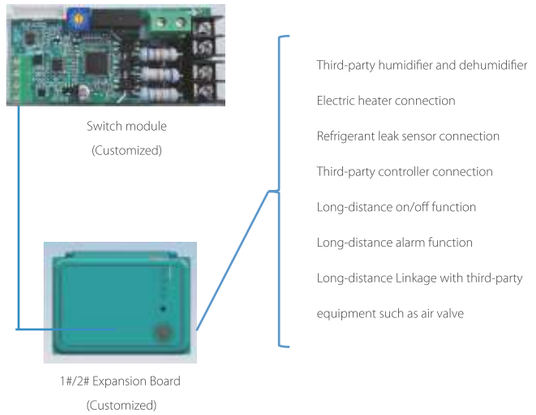
Optional F7 or H13-class air filter, Equipped with H13 HEPA high-efficiency filter screen, it can filter 0.5 micron extremely fine particles, and the primary filtration efficiency is more than 99.95%.



WIDER APPLICATION

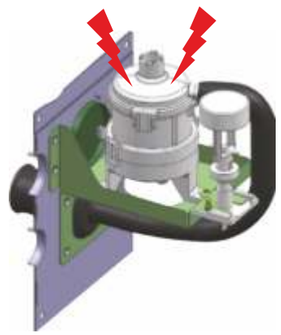
Multi-functional Expansion Board

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



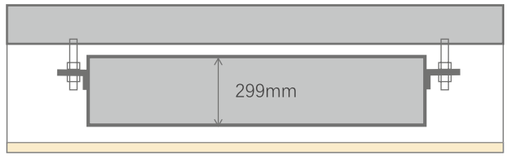
Intelligent leak feedback

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.



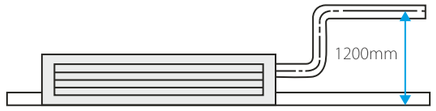
Ultra-thin fuselage

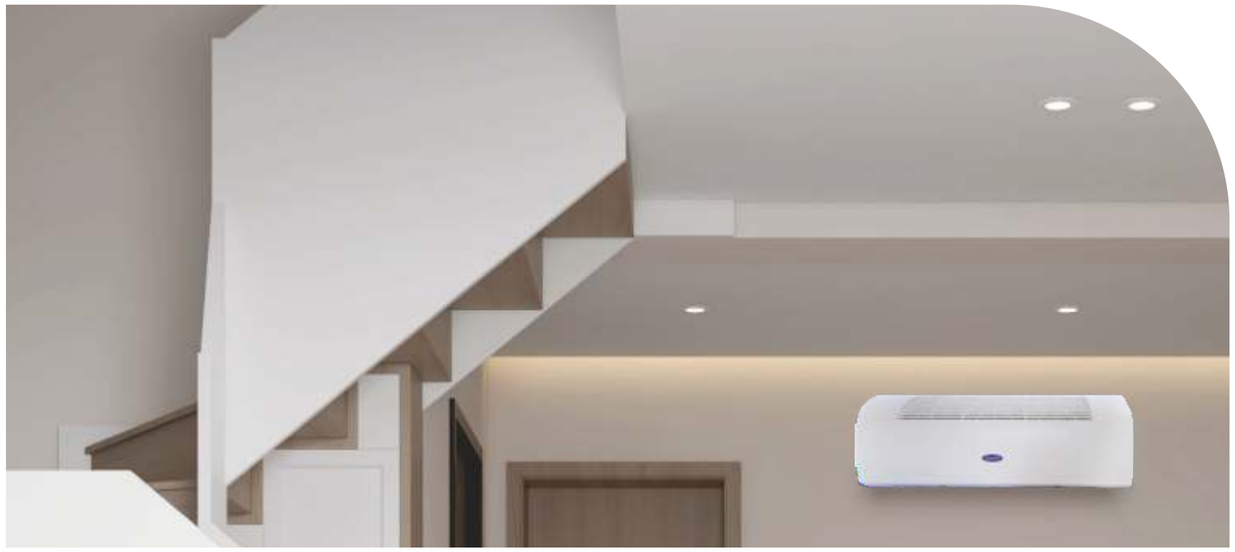
For High static pressure duct(5.6-16kW) the fuselage thickness is only299mm,the height required for ceiling installation is greatly reduced which leads to be able to cope with more installation situations.



High-lift drain pump

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





Close to ceiling installation

Free drainage

Quiet operation

Bi-directional Coanda airflow

Wall Mounted

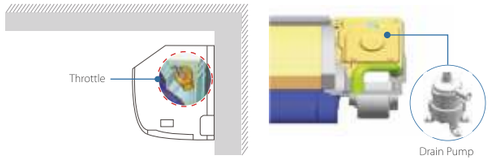
COMFORT

Quiet Operation

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

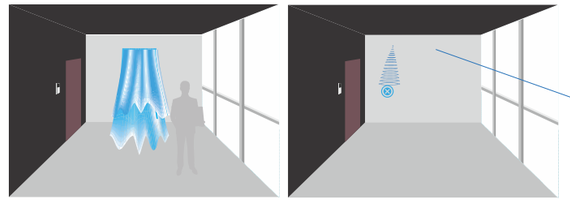
Enclosed design

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



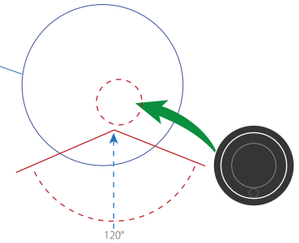
Human Detect Sensor*

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

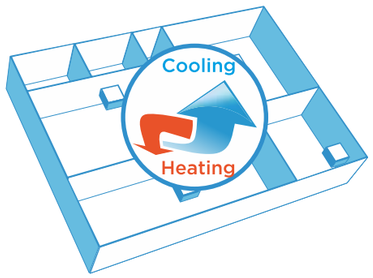
The indoor unit automatically stops when detecting absence



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

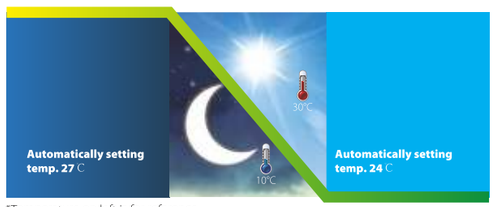
Auto Cooling-heating Changeover

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.

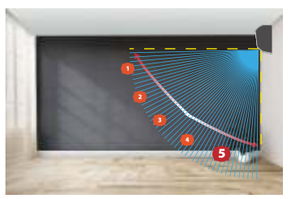


*Temperature on left is for reference.

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.

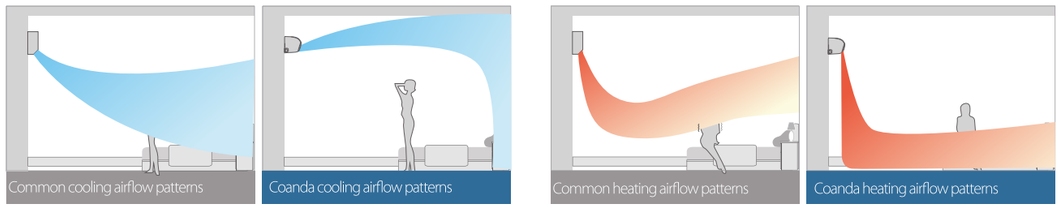


Up & Down

Right & Left

Bi-directional Airflow

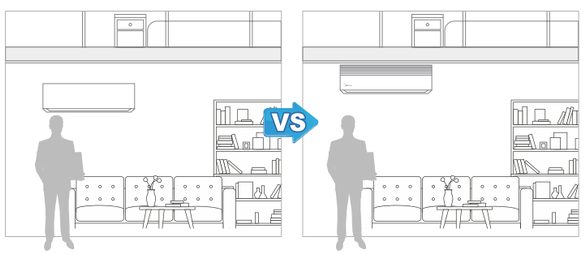
With bi-directional airflow delivery technology, the cold air does not blow directly on people and the hot air warms up evenly from the feet for better comfort.



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.

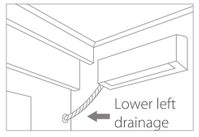


There is some distance from ceiling

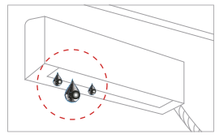
The distance from the ceiling is 3cm

Free Drainage without Space Restrictions

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



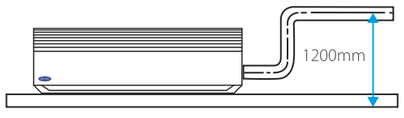
Most conventional Wall Mounted unit does not have a drain pump and the condensate pipe can only be installed underneath the unit, relying on gravity to drain the condensate to the nearest window.



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.

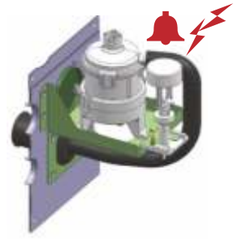


*The drain pump is available as a customization option.

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

Fault Feedback

Early warning of drain pump fault.



Healthy air supply

Multi-functional Expansion

Flexible installation

Ceiling&Floor

Feature

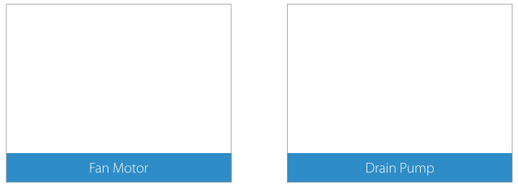
Two Installation Options

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.

Quiet Operation

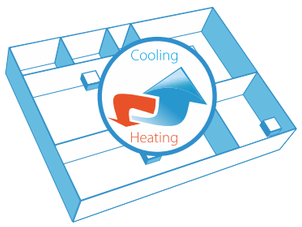
The fan motor and water pump* are DC power supply, which is more energy-saving and silent than AC power supply, creating a more quiet and comfortable environment



*Drain Pump is available as a customization option for unit

Auto Cooling-heating Changeover

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



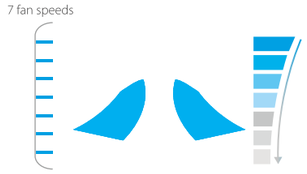
Digital feedback DC water pump*

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.

*Optional accessory

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 °.



Human Detect Sensor*

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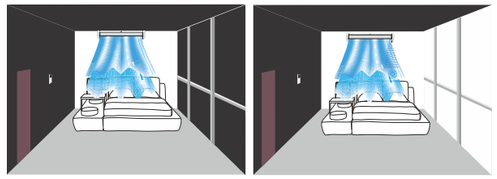


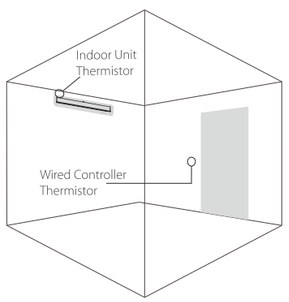
The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

*This function is available as a customization option for unit.

Two thermistors control

The indoor temperature can be checked using the therm - istor in the wired controller as well as from the indoor unit



Healthy air supply

Multi-functional Expansion

Flexible installation

Floor Standing

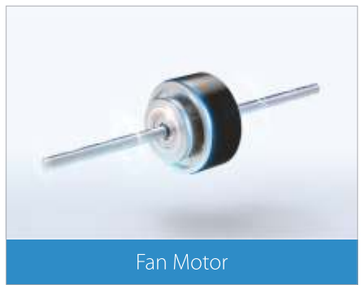
COMFORT

Digital Display On/Off

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

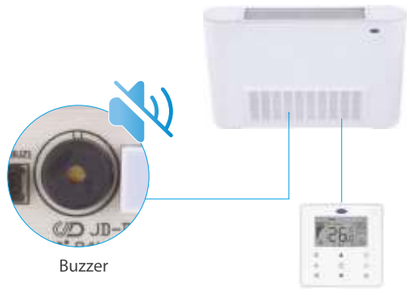
Quiet Operation

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



Buzzer Sound On/Off

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



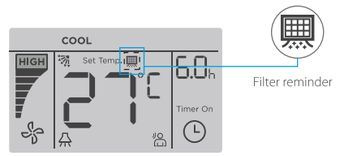
Multiple Fan Speeds

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

HEALTH

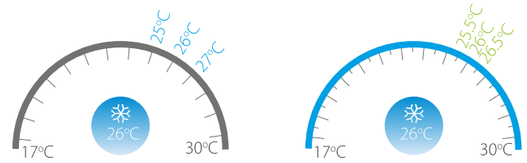
Dirty Filters Indicator Signal

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



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.



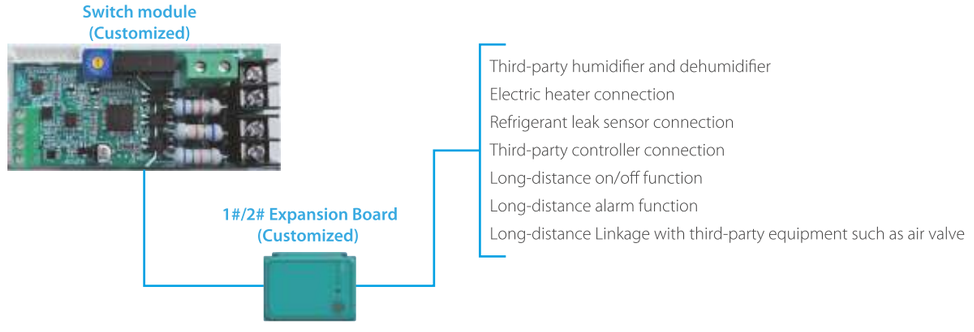
Digital Display On/Off

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

WIDER APPLICATION

Multi-functional Expansion Board

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



*Drain Pump is available as a customization option for unit

Compact design

Healthy air supply

Energy Saving

Heat Recovery Ventilator

Feature

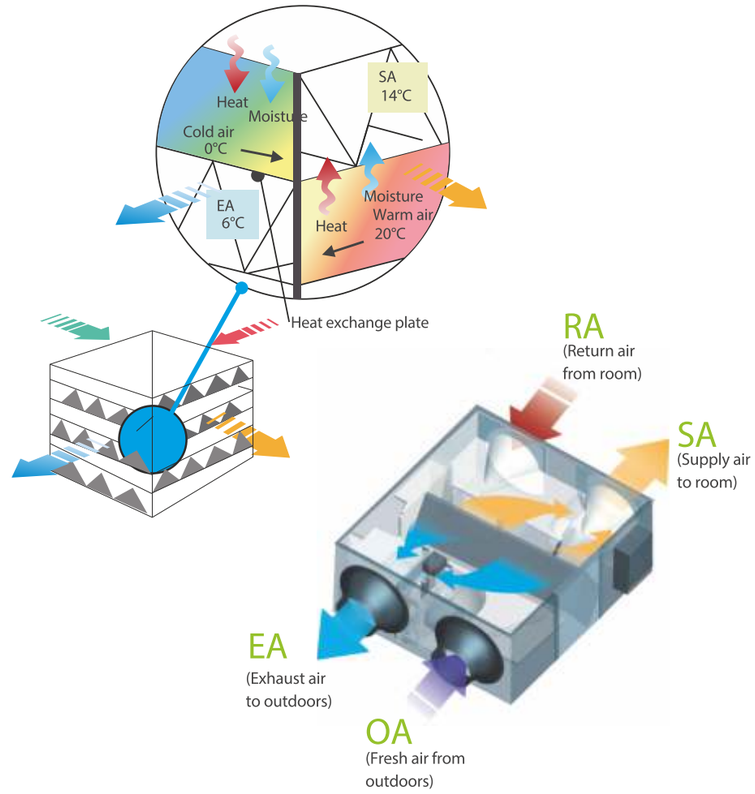
Wide Capacity Range

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 Midea 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.

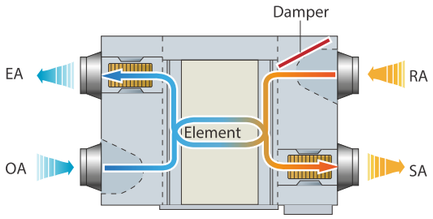


Multiple Operation Modes

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

Heat exchange mode

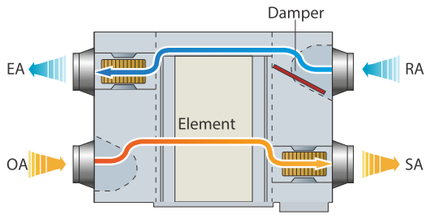
The flows of incoming and outgoing air pass close to each other, allowing heat transfer between the two channels. During summer, incoming air is cooled by the indoor air being exhausted and in winter, incoming air is warmed.



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.



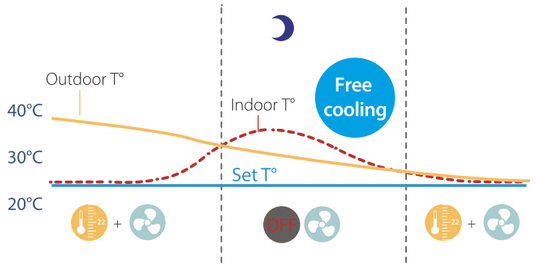
Bypass mode

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

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.

Wide Range of Controllers.

The HRV has its special wired controller. It also can be centralized control with VRF system through centralized controller and network control with VRF system through Midea gateways.

Wired Controller

Gateway

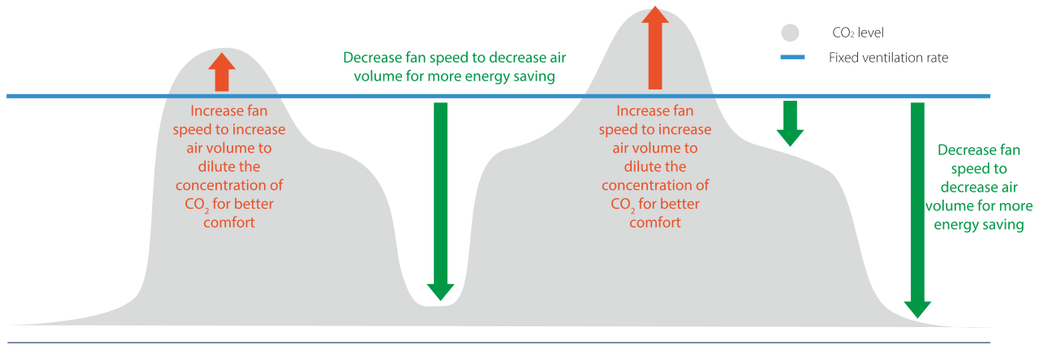
Cloud Gateway

BMS gateway

Centralized Controller

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.



Specifications

- Compact Four-way Cassette
- Four-way Cassette
- Two-way Cassette
- One-way Cassette
- Slim Duct
- Medium Static Pressure Duct
- High Static Pressure Duct
- Wall Mounted
- Floor Standing
- Ceiling & Floor
- Heat Recovery ventilator
- Fresh Air Unit
- AHU kit

Specifications

Compact Four-way Cassette

Model			40VX005H11500018	40VX007H11500018	40VX009H11500018	40VX012H11500018
Power supply			1-phase, 220-240V, 50			
Cooling[1]	Capacity	kW	1.5	2.2	2.8	3.6
		kBtu/h	5.1	7.5	9.6	12.3
Heating[2]	Capacity	kW	1.8	2.4	3.2	4.0
		kBtu/h	6.1	8.2	10.9	13.7
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
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	13.0/15.5			14.0/16.5
Panel	Net dimensions (W×H×D)	mm	620×65×620			
	Packed dimensions (W×H×D)	mm	680×80×665			
	Net/Gross weight	kg	2.3/3.0			
Refrigerant type			R410A			
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7			
	Drain pipe	mm	OD Ø25			

Model			40VX016H11500018	40VX020H11500018	40VX022H11500018
Power supply			1-phase, 220-240V, 50		
Cooling[1]	Capacity	kW	4.5	5.6	6.3
		kBtu/h	15.4	19.1	21.5
Heating[2]	Capacity	kW	5.0	6.3	7.1
		kBtu/h	17.1	21.5	24.2
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
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	14.0/16.5	15.0/17.5	
Panel	Net dimensions (W×H×D)	mm	620×65×620		
	Packed dimensions (W×H×D)	mm	680×80×665		
	Net/Gross weight	kg	2.3/3.0		
Refrigerant type			R410A		
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 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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

Four-way Cassette

Model			40VK009H11500018(i)	40VK012H11500018(i)
Power supply			1-phase, 220-240V, 50	
Cooling[1]	Capacity	kW	2.8	3.6
		kBtu/h	9.6	12.3
Heating[2]	Capacity	kW	3.2	4.0
		kBtu/h	10.9	13.7
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	950×53× 950	950× 53× 950
	Packed dimensions (W×H×D)	mm	1020× 95×1035	1035× 95×1035
	Net/Gross weight	kg	5.6/7.3	5.6/7.3
Refrigerant type			R410A	
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7
	Drain pipe	mm	OD Ø25	

Model			40VK016H11500018(i)	40VK020H11500018(i)	40VK024H11500018(i)
Power supply			1-phase, 220-240V, 50		
Cooling[1]	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15.4	19.1	24.2
Heating[2]	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17.1	21.5	27.3
Air flow rate[3]		m^3/h	840/787/733/680/626/573/519	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× 55× 950	950× 55× 950	950× 55× 950
	Packed dimensions (W×H×D)	mm	1035× 95×1035	1035× 95×1035	1035× 95×1035
	Net/Gross weight	kg	5.6/7.3	5.6/7.3	5.6/7.3
Refrigerant type			R410A		
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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

Four-way Cassette

Model			40VK028H11500018(i)	40VK030H11500018(i)	40VK034H11500018(i)
Power supply			1-phase, 220-240V, 50		
Cooling[1]	Capacity	kW	8.0	9.0	10.0
		kBtu/h	27.3	30.7	34.1
Heating[2]	Capacity	kW	9.0	10.0	11.2
		kBtu/h	30.7	34.1	38.2
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× 55× 950	950× 55× 950	950× 55× 950
	Packed dimensions (W×H×D)	mm	1035× 95×1035	1035× 95×1035	1035× 95×1035
	Net/Gross weight	kg	5.6/7.3	5.6/7.3	5.6/7.3
Refrigerant type			R410A		
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			
Cooling[1]	Capacity	kW	11.2	14.0	16.0	18.0
		kBtu/h	38.2	47.8	54.6	61.4
Heating[2]	Capacity	kW	12.5	16.0	18.0	20.0
		kBtu/h	42.7	54.6	61.4	68.2
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× 55× 950	950× 55× 950	1050×55×1050	1050×55×1050
	Packed dimensions (W×H×D)		1035× 95×1035	1035× 95×1035	1115×100×1115	1115×100×1115
	Net/Gross weight	kg	5.6/7.3	5.6/7.3	7.4/9.7	7.4/9.7
Refrigerant type			R410A			
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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

Two-way Cassette

Model name			40VT007H11500018	40VT009H11500018	40VT012H11500018	40VT016H11500018	40VT020H11500018	40VT024H11500018
Power supply			1-phase, 220-240V, 50					
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
		kBtu/h	7.5	9.6	12.3	15.4	19.1	24.2
Heating[2]	Capacity	kW	2.6	3.2	4	5	6.3	8
		kBtu/h	8.9	10.9	13.6	17.1	21.5	27.3
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	1200/1115/1068/1 000/921/808/770
Sound pressure level[4]		dB(A)	33/31/30/29/27/2 5/24	33/31/30/29/27/2 5/24	35/33/32/30/29/2 7/25	37/36/35/34/32/3 1/30	39/37/36/35/33/3 1/30	44/42/41/40/38/3 6/34
indoor unit	Net dimensions[5] (W×H×D)	mm	1172×299×591					
	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	R410A	R410A	R410A	R410A	R410A
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ32					

One-way Cassette

Model name			40VZ006H11500018	40VZ007H11500018	40VZ009H11500018	40VZ012H11500018	40VZ016H11500018	40VZ020H11500018	40VZ024H11500018
Power supply			1-phase, 220-240V, 50						
Cooling[1]	Capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
		kBtu/h	6.1	7.5	9.6	12.3	15.4	19.1	24.2
Heating[2]	Capacity	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
		kBtu/h	7.5	8.9	10.9	13.6	17.1	21.5	27.3
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	R410A	R410A	R410A	R410A	R410A	R410A
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7						Φ9.52/Φ15.9
	Drain pipe	mm	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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

Slim Duct

Model			42VD005H115002018	42VD007H115002018	42VD009H115002018
Power supply			1-phase, 220-240V, 50	1-phase, 220-240V, 50	1-phase, 220-240V, 50
Cooling[1]	Capacity	kW	1.5	2.2	2.8
		kBtu/h	5.1	7.5	9.6
Heating[2]	Capacity	kW	1.8	2.5	3.2
		kBtu/h	6.1	8.5	10.9
Fan motor type			DC	DC	DC
Air flow rate[4]		m^3/h	340/335/329/320/307/298/290	370/347/339/322/314/306/295	460/431/413/380/351/323/300
External static pressure[5]		Pa	10 (10-50)	10 (10-50)	10 (10-50)
Unit	Net dimensions[7] (W×H×D)	mm	550×199×450	550×199×450	550×199×450
	Packed dimensions (W×H×D)	mm	715×255×525	715×255×525	715×255×525
	Net/Gross weight	kg	11.5/13.5	11.5/13.5	11.5/13.5
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25

Model			42VD012H115002018	42VD016H115002018	42VD020H115002018
Power supply			1-phase, 220-240V, 50	1-phase, 220-240V, 50	1-phase, 220-240V, 50
Cooling[1]	Capacity	kW	3.6	4.5	5.6
		kBtu/h	12.3	15.4	19.1
Heating[2]	Capacity	kW	4	5	6.3
		kBtu/h	13.7	17.1	21.5
Fan motor type			DC	DC	DC
Air flow rate[4]		m^3/h	605/557/508/453/414/365/320	800/770/701/629/557/506/435	900/800/761/682/603/549/470
External static pressure[5]		Pa	10 (10-50)	10 (10-50)	10 (10-50)
Unit	Net dimensions[7] (W×H×D)	mm	700×199×450	900×199×450	900×199×450
	Packed dimensions (W×H×D)	mm	865×255×525	1065×255×525	1065×255×525
	Net/Gross weight	kg	13.0/15.5	16.5/19.5	16.5/19.5
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

Slim Duct

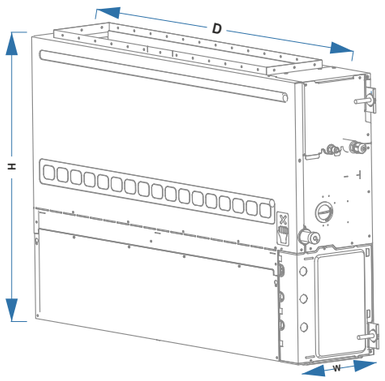
Model			42VD024H115002018	42VD028H115002018
Power supply			1-phase, 220-240V, 50	1-phase, 220-240V, 50
Cooling[1]	Capacity	kW	7.1	8
		kBtu/h	24.2	27.3
Heating[2]	Capacity	kW	8	9
		kBtu/h	27.3	30.7
Fan motor type			DC	DC
Air flow rate[4]		m^3/h	1145/1033/957/860/763/671/580	1400/1327/1249/1175/1095/1026/960
External static pressure[5]		Pa	10 (10-50)	20(10-80)
Unit	Net dimensions[7] (W×H×D)	mm	1100×199×450	1600×199×450
	Packed dimensions (W×H×D)	mm	1300×255×525	1780×250×525
	Net/Gross weight	kg	20/23.5	28/32.5
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9	Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25

Model			42VD030H115002018	42VD040H115002018
Power supply			1-phase, 220-240V, 50	1-phase, 220-240V, 50
Cooling[1]	Capacity	kW	9	11.2
		kBtu/h	30.7	38.2
Heating[2]	Capacity	kW	10	12.5
		kBtu/h	34.1	42.7
Fan motor type			DC	DC
Air flow rate[4]		m^3/h	1400/1327/1249/1175/1095/1026/960	1620/1522/1433/1343/1254/1170/1080
External static pressure[5]		Pa	20(10-80)	20(10-80)
Unit	Net dimensions[7] (W×H×D)	mm	1600×199×450	1600×199×450
	Packed dimensions (W×H×D)	mm	1780×250×525	1780×250×525
	Net/Gross weight	kg	28/32.5	28/32.5
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9	Φ9.52/Φ15.9
	Drain pipe	mm	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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

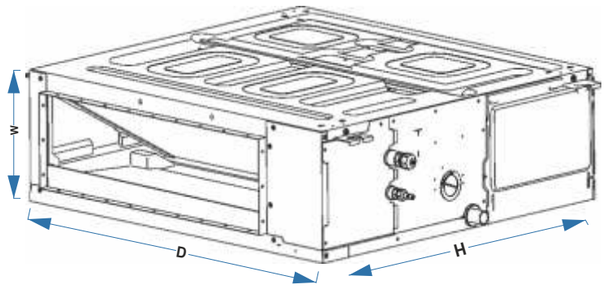
Medium Static Pressure Duct



W x D x H

Floor Mounted Duct

(42VD***4018)



W x D x H

Ceiling Suspended Duct

(42VD***3018)

Model			42VD005H115004018 42VD005H115003018	42VD007H115004018 42VD007H115003018	42VD009H115004018 42VD009H115003018	42VD012H115004018 42VD012H115003018
Power supply			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	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
Heating[2]	Capacity	kW	1.8	2.5	3.2	4
		kBtu/h	6.1	8.5	10.9	13.7
Air flow rate[3]		m3/h	470/438/407/375/343/312/280	500/467/433/400/367/333/300	540/503/467/430/393/357/320	575/535/495/455/415/375/335
External static pressure[4]		Pa	30 (10~160)	30 (10~160)	30 (10~160)	30 (10~160)
Unit	Net dimensions6 (W×D×H)	mm	245×710×770	245×710×770	245×710×770	245×710×770
	Packed dimensions (W×D×H)	mm	305×765×890	305×765×890	305×765×890	305×765×890
	Net/Gross weight	kg	18/5/21	18/5/21	18/5/21	18/5/21
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

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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

Medium Static Pressure Duct

Model			42VD016H115004018 42VD016H115003018	42VD020H115004018 42VD020H115003018	42VD024H115004018 42VD024H115003018	42VD028H115004018 42VD028H115003018
Power supply			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	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
Heating[2]	Capacity	kW	5	6.3	8	9
		kBtu/h	17.1	21.5	27.3	30.7
Air flow rate[3]		m3/h	665/623/580/538/495/453/410	970/904/838/773/707/641/575	1150/1068/986/904/822/740/660	1355/1263/1172/1080/988/897/805
External static pressure[4]		Pa	30 (10~160)	30 (10~160)	30 (10~160)	40 (10-160)
Unit	Net dimensions6 (W×D×H)	mm	245×710×770	245×910×770	245×910×770	245×1160×770
	Packed dimensions (W×D×H)	mm	305×765×890	305×965×890	305×965×890	305×1215×890
	Net/Gross weight	kg	19/5/22	24/27.5	25/28.5	30/33.5
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.52/Φ15.9	Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25

Model			42VD030H115004018 42VD030H115003018	42VD040H115004018 42VD040H115003018	42VD048H115004018 42VD048H115003018	42VD054H115004018 42VD054H115003018
Power supply			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz
Cooling[1]	Capacity	kW	9	11.2	14	16
		kBtu/h	30.7	38.2	47.8	54.6
Heating[2]	Capacity	kW	10	12.5	16	18
		kBtu/h	34.1	42.7	54.6	61.4
Air flow rate[3]		m3/h	1420/1323/1225/1128/1030/933/835	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)	40 (10-160)	50 (10-160)	50 (10-160)
Unit	Net dimensions6 (W×D×H)	mm	245×1160×770	245×1510×770	245×1510×770	245×1510×770
	Packed dimensions (W×D×H)	mm	305×1215×890	305×1565×890	305×1565×890	305×1565×890
	Net/Gross weight	kg	31/34.5	37/41.5	39/43.5	39/43.5
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9	Φ9.52/Φ15.9	Φ9.52/Φ15.9	Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ25	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. 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. The specifications, designs and information in this brochure are subject to change without notice.

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
		kBtu/h	19.1	24.2	27.3	30.7
Heating[2]	Capacity	kW	6.3	8	9	10
		kBtu/h	21.5	27.3	30.7	34.1
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)	39/38/36/35/33/32/30	39/38/36/35/33/32/30	39/38/36/35/33/32/30	40/39/37/36/34/33/31
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	R410A	R410A	R410A
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.9		
	Drain pipe	mm	OD Φ25			

Model name			42VD040H115011018	42VD042H115011018	42VD048H115011018	42VD054H115011018
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	11.2	12.5	14	16
		kBtu/h	38.2	42.7	47.8	54.6
Heating[2]	Capacity	kW	12.5	14	16	18
		kBtu/h	42.7	47.8	54.6	61.4
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)	41/40/38/37/35/34/32	41/40/39/37/36/35/33	43/42/40/39/37/36/34	44/43/41/40/38/37/35
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	Φ9.52/Φ15.9			
	Drain pipe	mm	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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Model name			42VD070H115011018	42VD076H115011018	42VD086H115011018
Power supply			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz
Cooling[1]	Capacity	kW	20.0	22.4	25.2
		kBut/h	68.3	76.5	86.0
Heating[2]	Capacity	kW	22.5	25.0	26.0
		kBut/h	76.8	85.3	88.7
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
External static pressure[4]		Pa	200(0-400)	200(0-400)	200(0-400)
Unit	Net dimensions[5] (W×H×D)	mm	1300×580×900	1300×580×900	1300×580×900
	Packed dimensions (W×H×D)	mm	1530×730×1060	1530×730×1060	1530×730×1060
	Net/Gross weight	kg	125/150	125/150	125/150
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ19.1	Φ9.52/Φ19.1	Φ12.7/Φ22.2
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32

Model name			42VD096H115011018	42VD120H115011018	42VD140H115011018
Power supply			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz
Cooling[1]	Capacity	kW	28.0	33.5	40.0
		kBut/h	95.6	114.3	136.5
Heating[2]	Capacity	kW	31.5	38.0	45.0
		kBut/h	107.5	129.7	153.6
Airflow rate[3]		m^3/h	4700/4387/4073/3760/3447/3133/2820	4700/4387/4073/3760/3447/3133/2820	7500/7000/6500/6000/5500/5000/4500
External static pressure[4]		Pa	200(0-400)	200 (0-400)	300 (0-400)
Unit	Net dimensions[6] (W×H×D)	mm	1300×580×900	1300×580×900	1850×580×900
	Packed dimensions (W×H×D)	mm	1530×730×1060	1530×730×1060	2080×730×1060
	Net/Gross weight	kg	125/150	128/153	166/204
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2	Φ12.7/Φ25.4	Φ12.7/Φ25.4
	Drain pipe	mm	OD Φ32	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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

High Static Pressure Duct

Model name			42VD160H115011018
Power supply			1-phase, 220-240V, 50/60Hz
Cooling[1]	Capacity	kW	45.0
		kBut/h	153.6
Heating[2]	Capacity	kW	56.0
		kBut/h	191.1
Airflow rate[3]		m^3/h	7500/7000/6500/6000/ 8400/7840/7280/6720/5500/5000/4500 6160/5600/5040
External static pressure[4]		Pa	300 (0-400)
Unit	Net dimensions[6] (W×H×D)	mm	1850×580×900
	Packed dimensions (W×H×D)	mm	2080×730×1060
	Net/Gross weight	kg	166/204 170/208
Pipe connections	Liquid/Gas pipe	mm	Φ15.9/Φ28.6
	Drain pipe	mm	OD Φ32

Model name			42VD190H115011018
Power supply			1-phase, 220-240V, 50/60Hz
Cooling[1]	Capacity	kW	56.0
		kBut/h	191.1
Heating[2]	Capacity	kW	63.0
		kBut/h	215.0
Airflow rate[3]		m^3/h	7500/7000/6500/6000/ 8400/7840/7280/6720/5500/5000/4500 6160/5600/5040
External static pressure[4]		Pa	300 (0-400)
Unit	Net dimensions[6] (W×H×D)	mm	1850×580×900
	Packed dimensions (W×H×D)	mm	2080×730×1060
	Net/Gross weight	kg	166/204 170/208
Pipe connections	Liquid/Gas pipe	mm	Φ15.9/Φ28.6
	Drain pipe	mm	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. 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. The specifications, designs and information in this brochure are subject to change without notice.

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
Heating[2]	Capacity	kW	1.7	2.4	3.2	4
		kBtu/h	5.8	8.2	10.9	13.6
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	875×385×360	875×385×360	875×385×360	875×385×360
	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
Heating[2]	Capacity	kW	5	6.3	8	9
		kBtu/h	17.1	21.5	27.3	30.7
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
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	1075×385×360	1075×385×360	1315×385×360	1315×385×360
	Net/Gross weight	kg	11.5/14	11.5/14	15/18	15/18
Refrigerant type			R410A			
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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

Ceiling & Floor

Model name			42VF012H115000018	42VF016H115000018	42VF020H115000018	42VF024H115000018	42VF028H115000018
Power supply			1-phase, 220-240V, 50Hz				
Cooling[1]	Capacity	kW	3.6	4.5	5.6	7.1	8
		kBtu/h	12.3	15.4	19.1	24.2	27.3
Heating[2]	Capacity	kW	4	5	6.3	8	9
		kBtu/h	13.7	17.1	21.5	27.3	30.7
Airflow rate[3]		m³/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
Unit	Net dimensions5 (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				
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			Φ9.52/Φ15.9	
	Drain pipe	mm	OD Φ25				

Model name			42VF030H115000018	42VF034H115000018	42VF040H115000018	42VF042H115000018	42VF048H115000018
Power supply			1-phase, 220-240V, 50Hz				
Cooling[1]	Capacity	kW	9	10	11.2	12.5	14
		kBtu/h	30.7	34.1	38.2	42.7	47.8
Heating[2]	Capacity	kW	10	11.2	12.5	14	16
		kBtu/h	34.1	38.2	42.7	47.8	54.6
Airflow rate[3]		m³/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
Unit	Net dimensions5 (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				
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9				
	Drain pipe	mm	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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

HRV

Model			HRV-D200(C)	HRV-D300(C)	HRV-D400(C)	HRV-D500(C)
Power supply		Ph-V-Hz	1-phase, 220-240V~50Hz	1-phase, 220-240V~50Hz	1-phase, 220-240V~50Hz	1-phase, 220-240V~50Hz
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		m3/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(A)	45	48	48	50
Net dimension1 (L×W×H)		mm	1195x784x272	1195x898x272	1276x1189x272	1311x1090x390
Packing size (L×W×H)		mm	1275x880x420	1275x994x420	1360x1284x420	1390x1244x540
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	mm2	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			HRV-D800(C)	HRV-D1000(C)	HRV-D1500(C)	HRV-D2000(C)
Power supply		Ph-V-Hz	1-phase, 220-240V~50Hz	1-phase, 220-240V~50Hz	1-phase, 220-240V~50Hz	1-phase, 220-240V~50Hz
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		m3/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(A)	55	54	69	70
Net dimension1 (L×W×H)		mm	1311x1270x390	1311x1510x390	1740x1344x615	1811x1545x685
Packing size (L×W×H)		mm	1390x1424x540	1390x1670x540	1830x1520x770	1900x1720x845
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	mm2	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

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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

Fresh air unit (small)

Model name			42VD030H115211018-S	42VD048H115211018-S	42VD054H115211018-S	42VD076H115211018-S	42VD096H115211018-S
Power supply			1-phase, 220-240V, 50/60Hz			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
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
Fan motor	Type		DC			DC	
	Quantity		1			1	
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 (W×H×D)	mm	1095×310×773	1095×310×773	1095×310×773	1445×310×773	1445×310×773
	Packed dimensions (W×H×D)	mm	1215×360×885	1215×360×885	1215×360×885	1645×360×885	1645×360×885
	Net/Gross weight	kg	37/41.5	40/43.5		54/59	54/59
Refrigerant type			R410A/R32			R410A/R32	
Design pressure(H/L)		MPa	4.4/2.6			4.4/2.6	
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9			Φ9.52/Φ19.1	Φ12.7/Φ22.2
	Drain pipe	mm	OD Φ25			OD Φ25	
Operating temperature range		°C	Heating: -10 to 16; Cooling: 20 to 52; Fan only: 5 to 48			Heating: -10 to 16; Cooling: 20 to 52; Fan only: 5 to 48	

Fresh air unit

Model name			42VD070H115211018	42VD076H115211018
Power supply			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz
Cooling[1]	Capacity	kW	20.0	22.4
		kBut/h	68.3	76.5
Heating[2]	Capacity	kW	12.0	13.7
		kBut/h	41.0	46.8
Airflow rate[3]		m^3/h	2500/2417/2333/2250/2167/2083/2000	2500/2417/2333/2250/2167/2083/2000
External static pressure[4]		Pa	220(0-400)	220(0-400)
Sound pressure level[5]		dB(A)	47/46/46/45/44/43/42	180 47/46/46/45/44/43/42
Unit	Net dimensions[6] (W×H×D)	mm	1300×550×900	1300×550×900
	Packed dimensions (W×H×D)	mm	1530×730×1060	1530×730×1060
	Net/Gross weight	kg	117/142	117/142
Refrigerant type			R410A	R410A
Design pressure (H/L)		MPa	4.4/2.6	4.4/2.6
Refriger	Liquid/Gas side	mm	Φ9.52/Φ19.1	Φ9.52/Φ19.1
antDrain piping		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. 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. The specifications, designs and information in this brochure are subject to change without notice.

Specifications

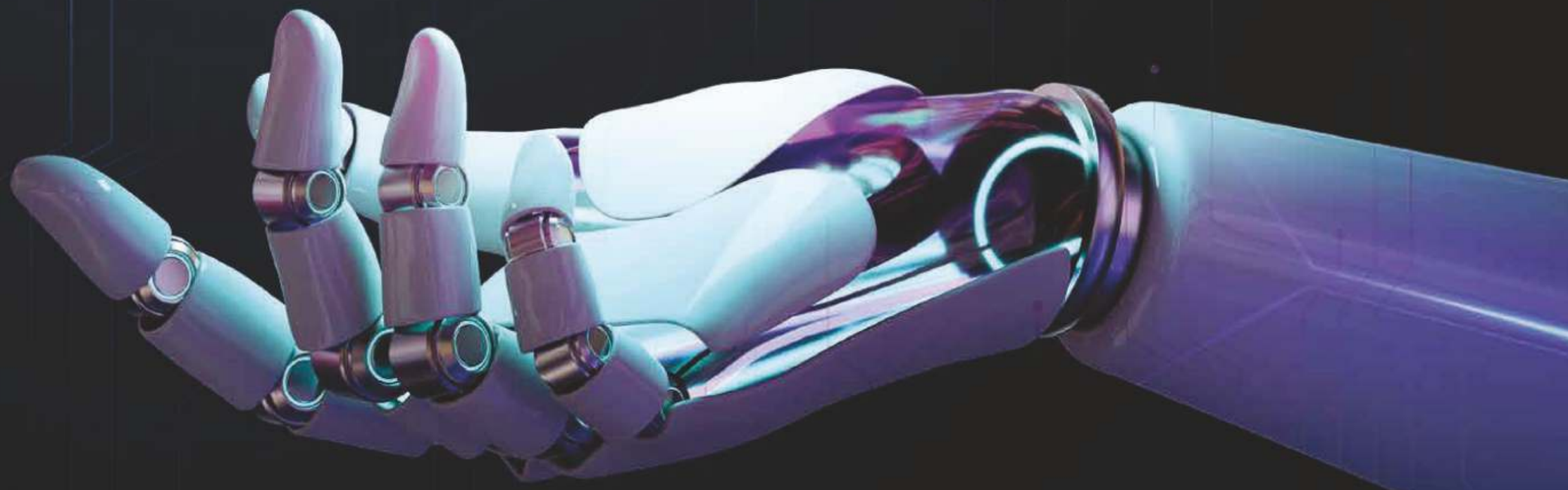
Model name			42VD086H115211018	42VD096H115211018	42VD120H115211018
Power supply			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz
Cooling[1]	Capacity		25.2	28.0	33.5
			86.0	95.6	114.3
Heating[2]	Capacity		16.0	18.0	22.0
			54.6	61.4	75.1
Airflow rate[3]			2800/2667/2533/2400/2267/2133/2000	3000/2833/2667/2500/2333/2167/2000	3200/3000/2800/2600/2400/2200/2000
External static pressure[4]			220(0-400)	220(0-400)	220(0-400)
Sound pressure level[5]			48/47/47/46/45/44/43	49/48/48/47/46/45/44180	200) 51/50/49/48/47/46/45
Unit	Net dimensions[6] (W×H×D)		1300×550×900	1300×550×900	1300×550×900
	Packed dimensions (W×H×D)		1530×730×1060	1530×730×1060	1530×730×1060
	Net/Gross weight		117/142	117/142	121/146
Refrigerant type			R410A	R410A	R410A
Design pressure (H/L)			4.4/2.6	4.4/2.6	4.4/2.6
Refriger	Liquid/Gas side		Φ12.7/Φ22.2	Φ12.7/Φ22.2	Φ12.7/Φ25.4
antDrain piping			OD Φ32	OD Φ32	OD Φ32

Model name			42VD140H115211018	42VD160H115211018	42VD190H115211018
Power supply			1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz	1-phase, 220-240V, 50/60Hz
Cooling[1]	Capacity		40.0	45.0	56.0
			136.5	153.6	191.1
Heating[2]	Capacity		26.5	27.8	39.0
			90.4	94.9	133.1
Airflow rate[3]			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]			300(0-400)	300(0-400)	300(0-400)
Sound pressure level[5]			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)		1850×550×900	1850×550×900	1850×550×900
	Packed dimensions (W×H×D)		2080×730×1060	2080×730×1060	2080×730×1060
	Net/Gross weight		161/198	161/198	164/201
Refrigerant type			R410A	R410A	R410A
Design pressure (H/L)			4.4/2.6	4.4/2.6	4.4/2.6
Refriger	Liquid/Gas side		Φ12.7/Φ25.4	Φ16/Φ28.6	Φ16/Φ28.6
antDrain piping			OD Φ32	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. 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. The specifications, designs and information in this brochure are subject to change without notice.

CONTROL SOLUTIONS

Remote Controllers
Wired Controllers
Centralized Controllers
Network Control System
BMS Gateways
Accessories



CONTROLLER LINEUP

Wireless Remote Controllers	Wired Controllers	Centralized Controllers
WL-12B-CM 	WR-86S-CM 	CRF-210B-CM 
WL-12F-CM 	WR-86T-CM 	CRF-270D-CM 
	WR-120T-CM 	

Network Control System	BMS Gateways	Accessories
NW3-CLOUD-CM  + 	NW3-BAC-CM  + 	XYE Extension Kit  CA3-EK
NW3-CLOUD-CM  +   Cloud Control App	NW3-MOD-CM 	

Wired Controllers

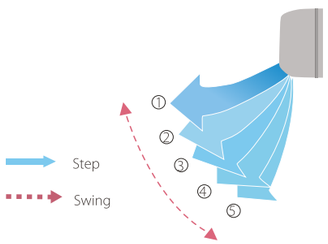
Features

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	✓	✗
Keyboard lock	✓	✓
Background light	✓	✓
Indoor Unit parameter setting	✓	✓
Dimensions (H×W×D) (mm)	170×48×20	170×48×20
Indoor unit series	2nd & 3rd Generation IDU	

Note:
✓: equipped as standard; ✗: without this function

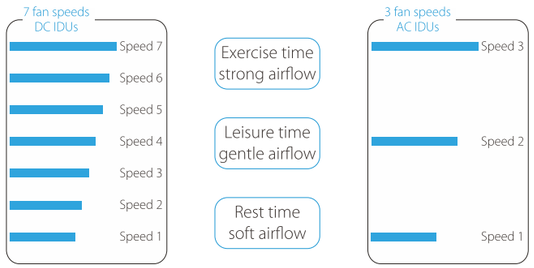
5 Swing Angles for Louver

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.

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

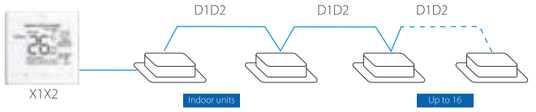
Features

Model	WR-86S-CM	WR-120T-CM
On / Off	✓	✓
Mode selection	✓	✓
Temperature setting	(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	✓	✓
CETAmode	✓	✓
Room temperature display	✓	✓
°F/℃ 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	✗	✓
One to more control	✗	✓
Dimensions (WxHxD) (mm)	86x86x18	120x120x20
Indoor Unit Series	2nd & 3rd Generation IDU	

Note:
✓ : equipped as standard; ✗ : without this function

Group Control

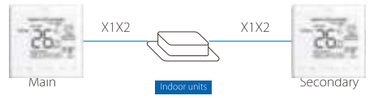
One controller can be used to unify the settings across up to 16 indoor units.



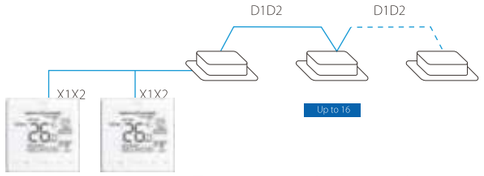
Note: when the 2nd generation AC indoor units connect to group controller WDC-120G/WK, the indoor units need to customize D1 D2 terminals.
Group control is not available for 2nd generation AC Wall Mounted Series.

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.

Buzzer Sound On/Off

The buzzer sound of the indoor unit can be turned off to create a quieter environment.

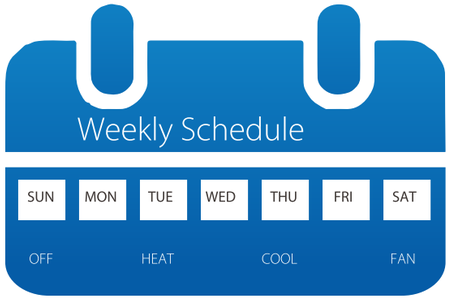
Buzzer

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.



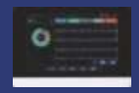
Bi-directional Communication

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-210A-CM / CRF-210B-CM	 CRF-270 C- CM / CRF-270 D- CM
Max. number of indoor units	64	384
Max. number of refrigerant systems	8	48
Touch screen	(7-inch)	(10.1-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	x	●
Report display	x	Error report and operation record
Operation log	x	●
LAN access	●	●
Language supported	English, Chinese, Arabic, German, Spanish, Turkish,Portuguese, Korean Georgian, Vietnamese, Hungarian, Czech, Thai, Finnish, Swedish, Danish, Dutch	English, Chinese, Arabic, Spanish, Turkish, Portuguese, Korean,Russian, Italian, Polish, French, German, Georgian
Dimensions (W×H×D)(mm)	190x106x32	270×183×27
Power supply	12V DC	24V AC
Indoor unit series	2nd & 3rd Generation IDU	

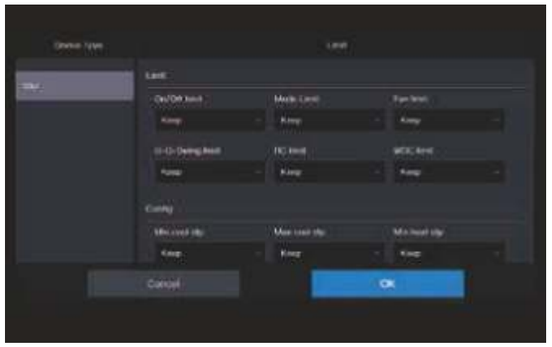
Note:
●: equipped as standard; ×: without this function

Touch Screen

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

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 (CF)
	Old IDU (1st Gen. IDU)		Two-way Cassette
	One-way Cassette		CONSOLE
	Group control device icon		New ODU (New generation ODU)

Group Management

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

Outdoor Unit Configuration

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

Schedule Management

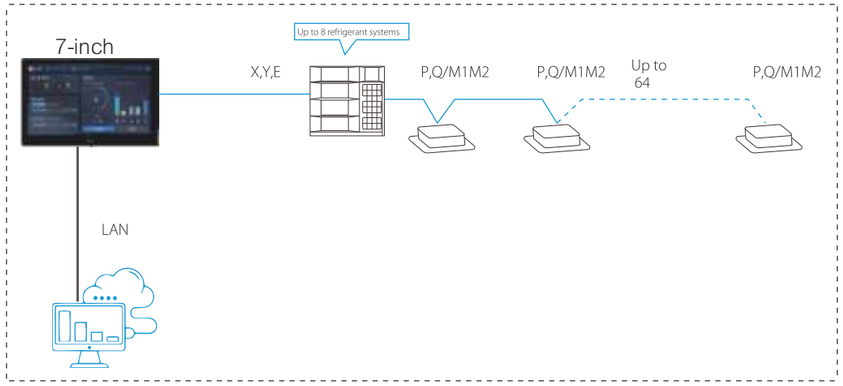
Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.

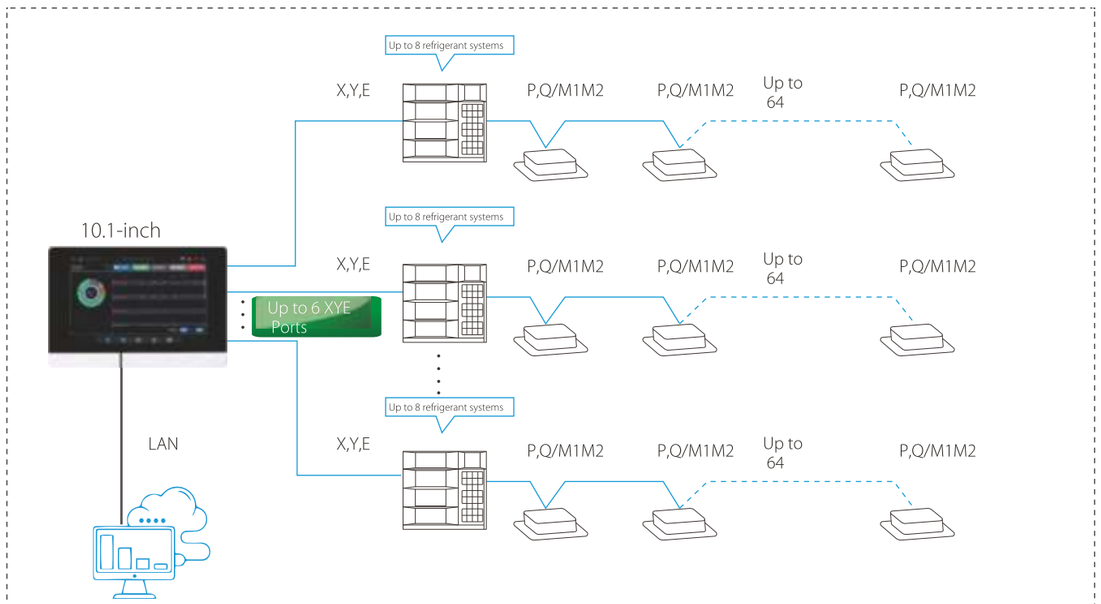
LAN Access

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

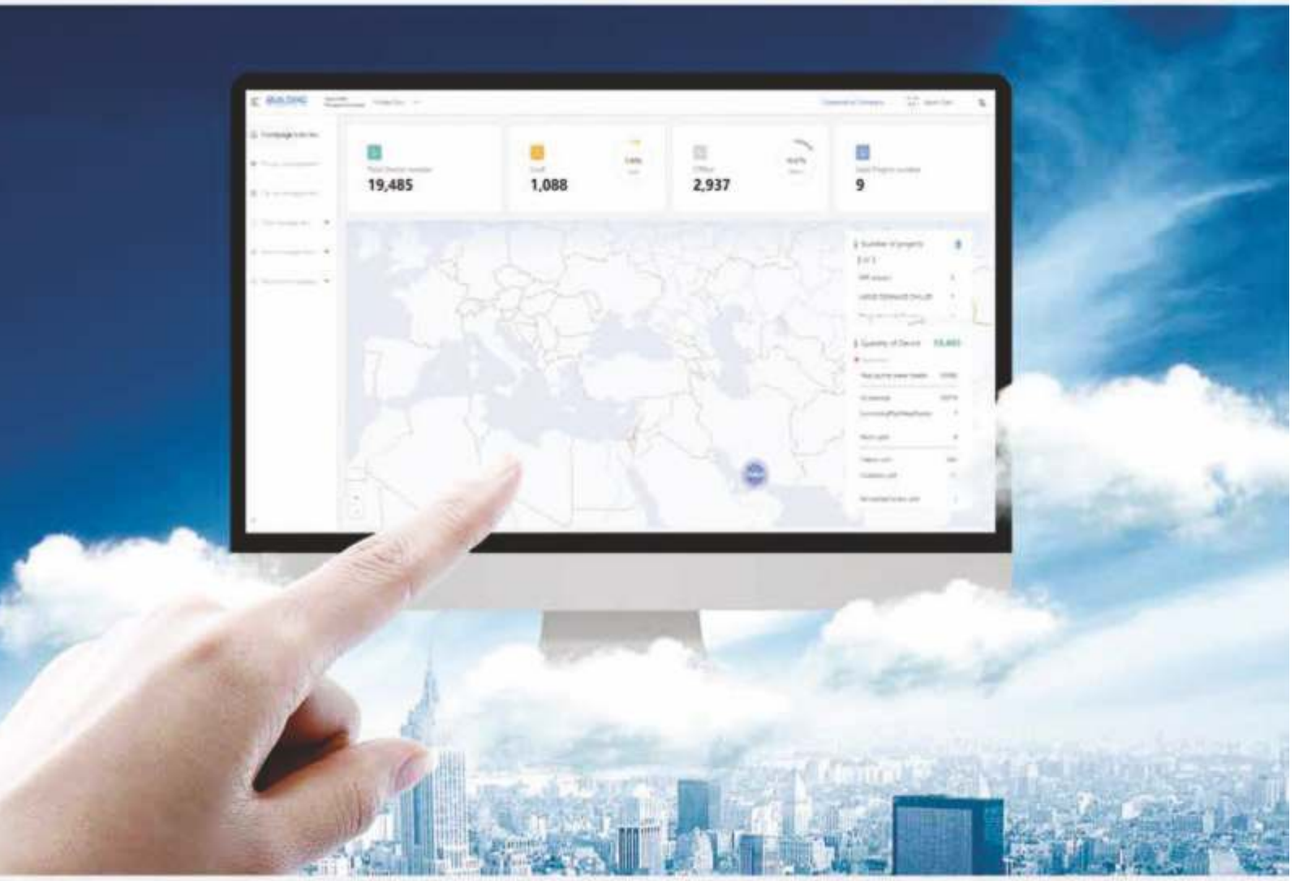
Wiring Flexibility

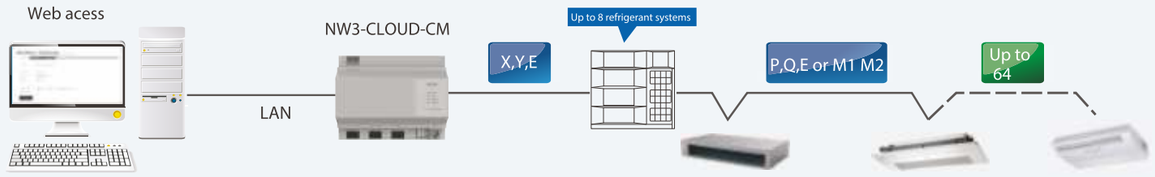
The controllers can be connected to the master outdoor unit directly.





Network Control System





Features

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	

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

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

BMS Gateway

Monitoring and control of Carrier's VRF air conditioners can be integrated into building management systems, enabling air conditioning to be monitored alongside lighting, power, fire, access and security systems. Carrier's gateway devices provide full compatibility with the leading BMS protocols: BACnet, LonWorks and Modbus.

BACnet® Gateway

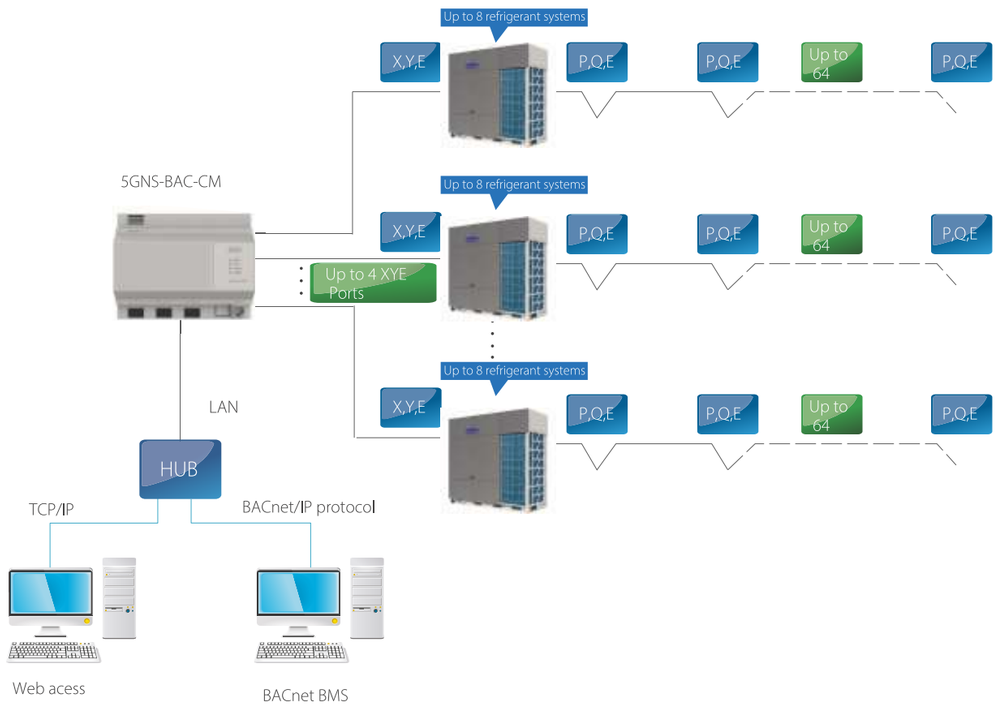
5GNS-BAC-CM/NW3-BAC-CM

Full Integration

The 4GNS-BAC-CM Gateway allows Carrier VRF systems to be monitored and controlled alongside other building management technology that use the BACnet protocol such as access control, fire detection and lighting systems.

Network Flexibility

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



Features

Model		5GNS-BAC-CM/NW3-BAC-CM
Max. number of indoor units		192
Max. number of refrigerant systems		24
Control	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Energy management	●
Indoor unit monitoring	Room temperature display	●
	Error status	●
	Error alarms	●
Outdoor unit monitoring	Operating mode	●
	Outdoor ambient temperature	●
	Fan speed	●
	Discharge temperature	●
	System pressure	●
	Error status	●
	Error alarms	●
LAN access		●
Dimensions (HxWxD)(mm)		116x190x67
Power supply		24V AC 50/60Hz
Indoor unit series		2nd & 3rd Generation IDU

● With this function

▬ Without this function

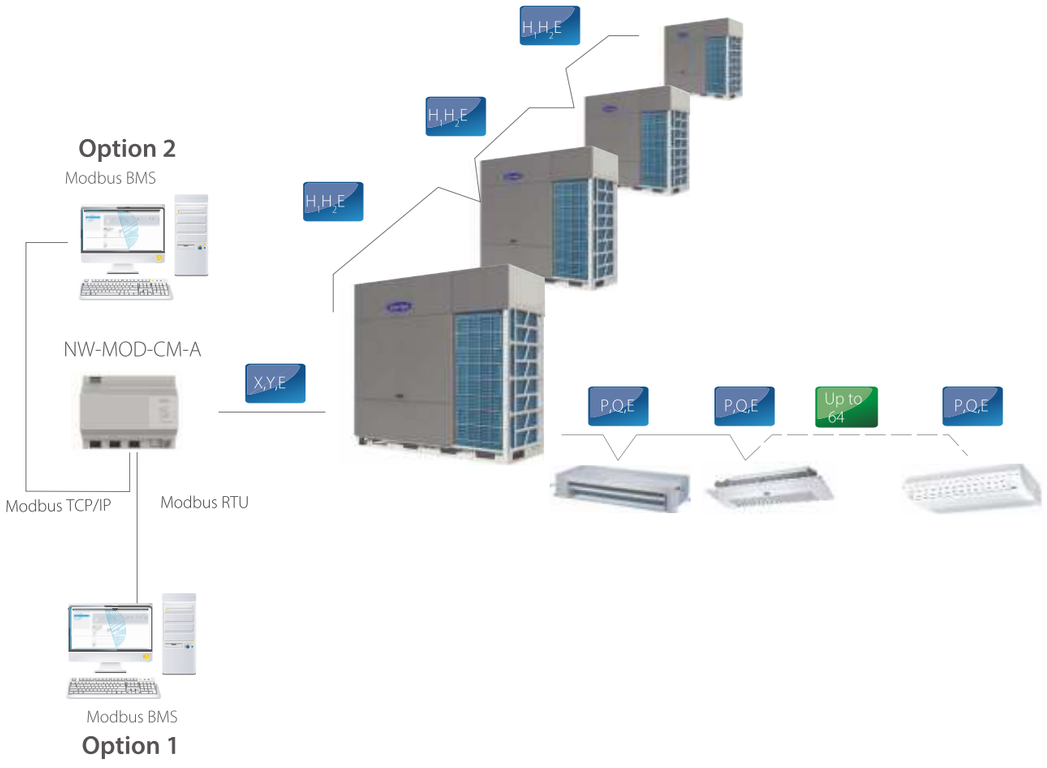
Modbus® Gateway

NW-MOD-CM-A/ NW3-MOD-CM

Full Integration

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

Network Flexibility



Features

Model		NW-MOD-CM-A/ NW3-MOD-CM
Max. number of indoor units		64
Max. number of outdoor units		4
Max. number of refrigerant systems		1
Control	On / Off	✓
	Mode selection	✓
	Temperature setting	✓
	Fan speed	✓
	Group on/off	✓
Indoor unit monitoring	Online status	✓
	Room temperature	✓
	Error status	✓
	Operating mode	✓
Outdoor unit monitoring	Operating mode	✓
	Fan speed	✓
	Set temperature	✓
	Outdoor ambient temperature	✓
	Error status	✓
LAN access		✓
Dimensions (HxWxD)(mm)		225x128x28
Power supply		12V DC
Indoor unit series		2nd & 3rd Generation IDU

● With this function

▬ Without this function

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 0.8-80HP.

AHUKZ-00F
1.8kW≤A<9kW

AHUKZ-01F
9kW≤A≤20kW

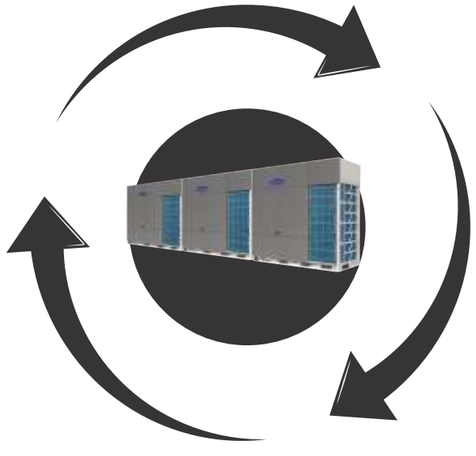
AHUKZ-02F
20kW<A≤36kW

AHUKZ-03F
36kW<A≤56kW

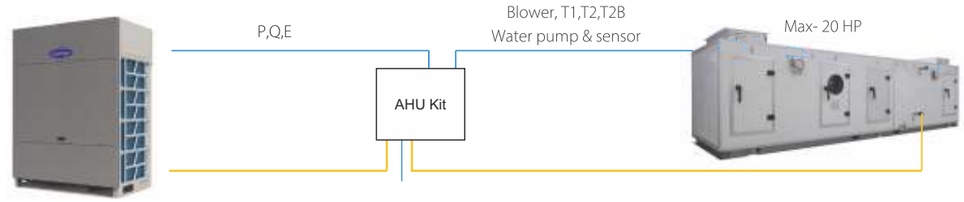
AHUKZ-04F
56kW<A≤168kW

Compatible with All VRF Systems

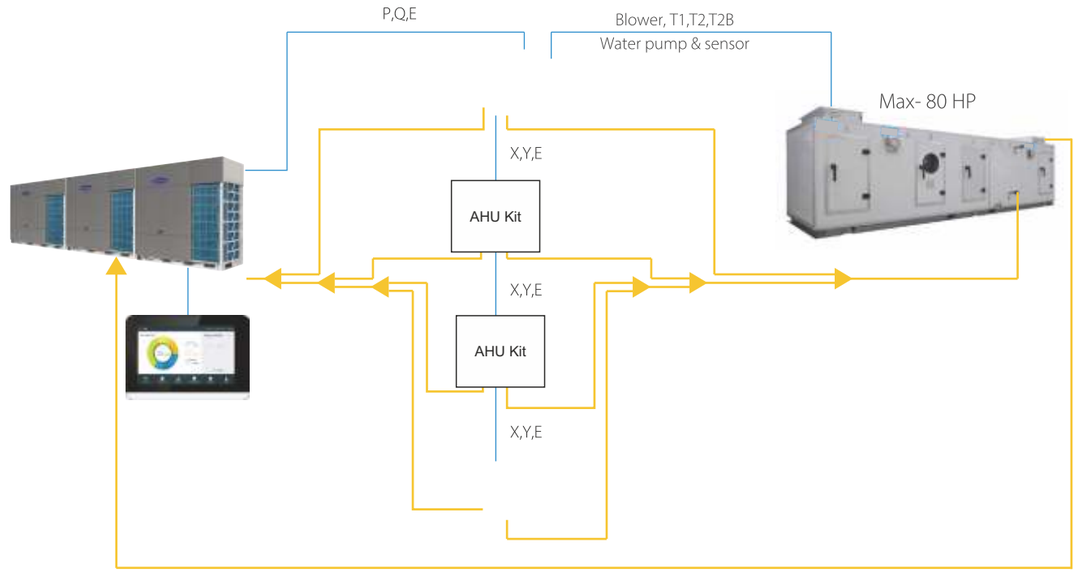
AHU kits are compatible with all Carrier VRF outdoor units and can be used together with all types of Carrier VRF indoor units.



Single AHU Control Box Connection



Multi AHU Control Boxes Connection



Specifications

Kit models			AHUKZ-00F	AHUKZ-01F	AHUKZ-02F	AHUKZ-03F	AHUKZ-04F
Power supply			220–240 V~ 50/60 Hz				
Net weight		kg	6.2	6.2	6.4	6.4	6.6
Gross weight		kg	8.8	8.8	9.0	9.0	9.2
Operating ambient temperature		°C	-25 ~ 52				
AHU heat exchanger air inlet temperature (DB)	Cooling	°C	17 ~ 43				
	Heating	°C	5 ~ 30				
Refrigerant type			R410A				

Part 3 - System Design and Installation

Table 3-4.9: Indoor branch joint dimensions (unit: mm)

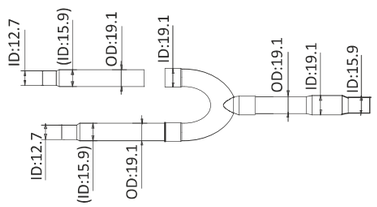
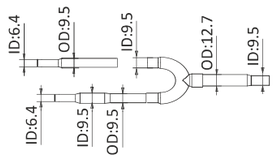
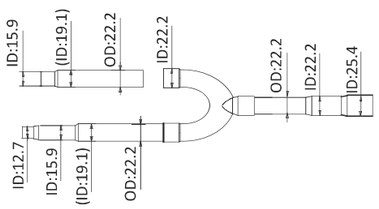
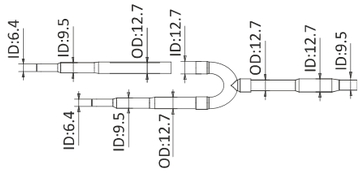
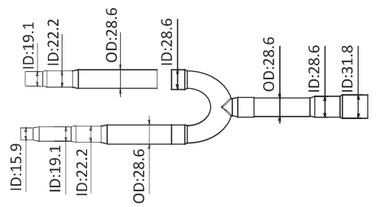
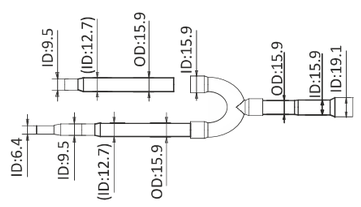
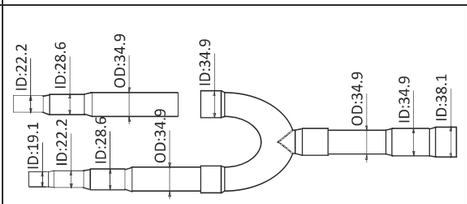
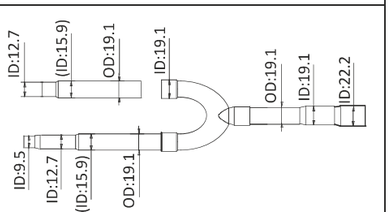
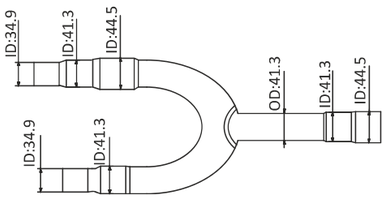
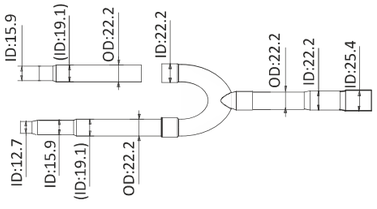
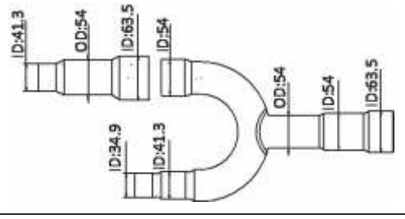
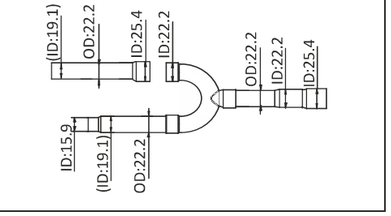
Model	Gas side joints	Liquid side joints
BJF-224-IM		
BJF-330-IM		
BJF-710-IM		
BJF-1344-IM		
BJF-E1344-IM		
BJF-E1500-IM		

Table 3-4.9: Indoor branch joint dimensions (unit: mm) (continued)

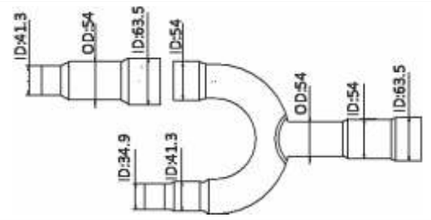
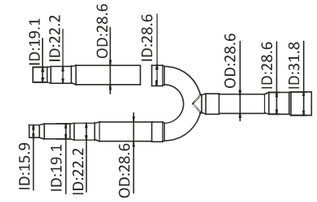
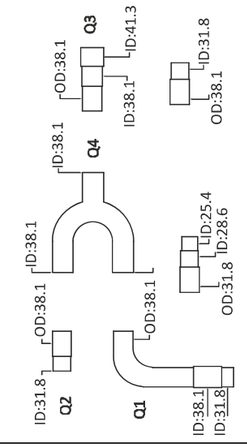
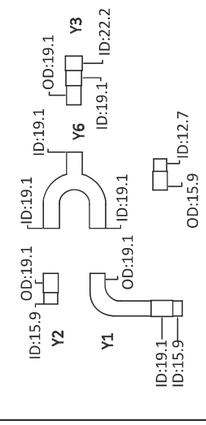
Model	Gas side joints	Liquid side joints
BJF-E2690-CM(I)		

Table 3-4.10: Outdoor branch joint dimensions combined units (unit: mm)

No. of outdoor units	Model	Gas side joints	Liquid side joints
2	BJC-02E-CM(I)		
3	BJC-03E-CM(I)