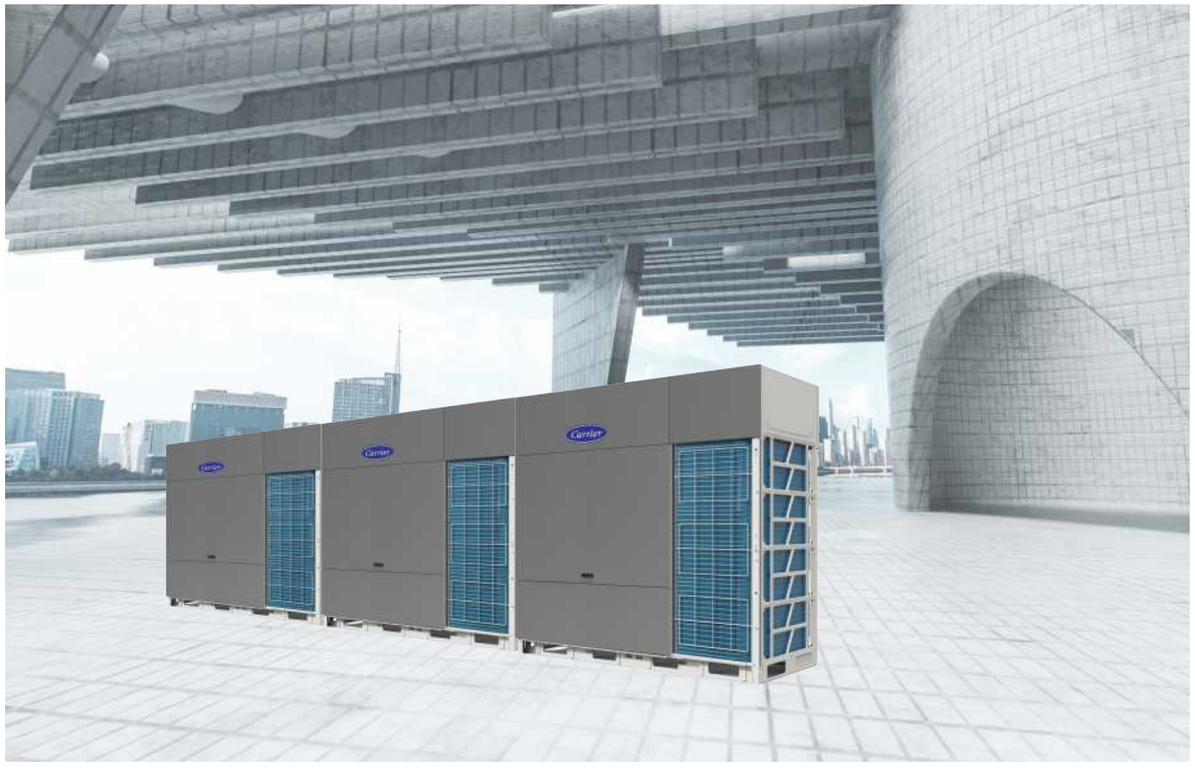
Carrier

XPOWER
FULL DC INVERTER
VRF



TOTALINE

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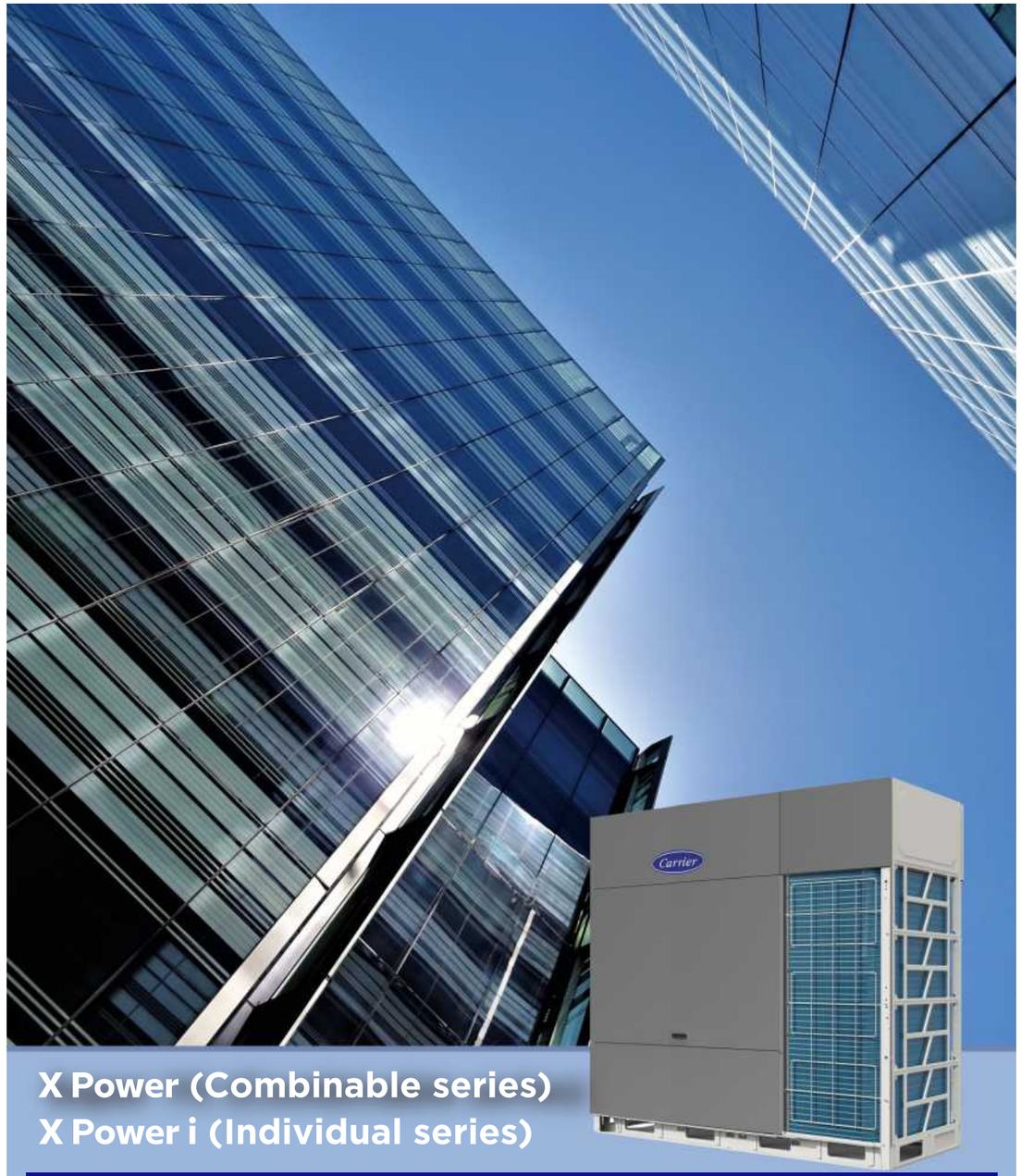
Carrier

February 2024

OUTDOOR UNITS



X Power (Combinable 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

X (Combinable series)

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

HP	40-76	78-114
Combined Unit		

Xi (Individual series)

HP	8-20	22-28	30-38
Single 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 refrigerant to ensure that the electronic components work in the best temperature range.

Built-in Circulating Fan

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

BENEFITS

High reliability

Stable operation

■ IP (INGRESS PROTECTION)

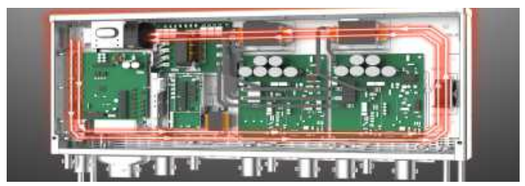
IP 55

Dustproof grade code
Prevent entry foreign objects and dust

Waterproof grade code
Prevent water spray in all directions

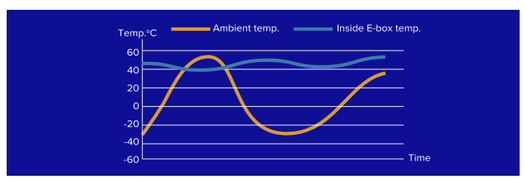
PTC Heater

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.



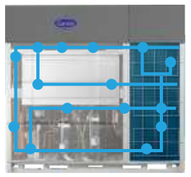
Comprehensive Sensor

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.

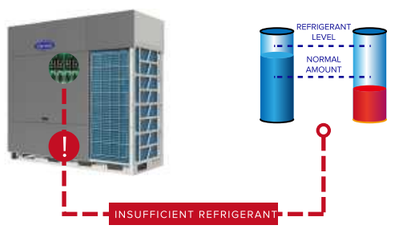
Complete Sensors

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.



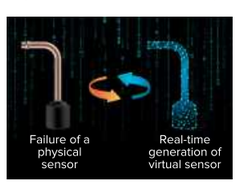
Refrigerant Amount Diagnosis*

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



Virtual Sensor Backup

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



Carrier ETA (CETA) 2.0

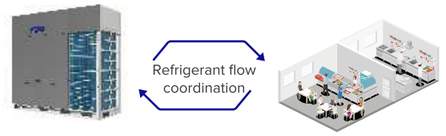
CETA is the abbreviation of Carrier Evaporating Temperature Alteration. Further upgraded CETA technology to maximize ENERGY SAVING.

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

Variable Refrigerant Flow

STEP 1: Architectural space feature recognition

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

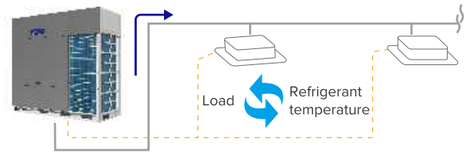


Automatic calculation of the building load and the required refrigerant quantity based on the sensor parameters.

Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination

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

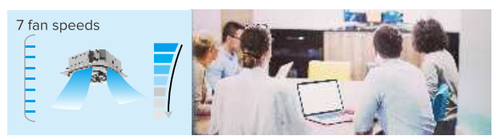


Automatic matching of the corresponding refrigerant temperature to the load.

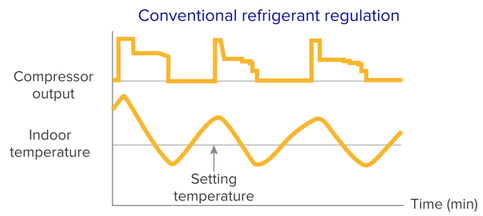
Variable Indoor Airflow

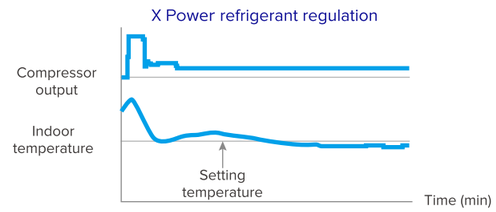
STEP 3: Adaptive indoor airflow and refrigerant flow

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



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





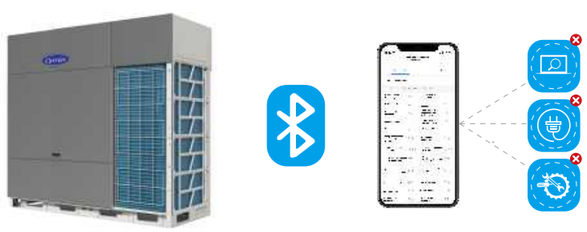
Doctor 2.0

Further upgraded DOCTOR M technology to maximize EASY SERVICE.

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

Intelligent Maintenance Tool

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



*The Bluetooth module is available as a customization option.

Real-time Monitoring of Operating Parameters

The 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.

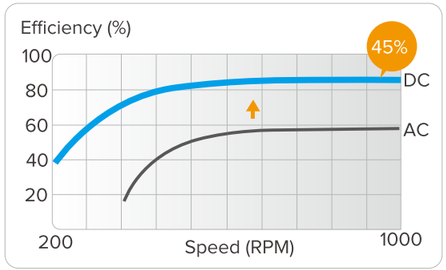
*The data cloud gateway is still under development and needs to be purchased separately.

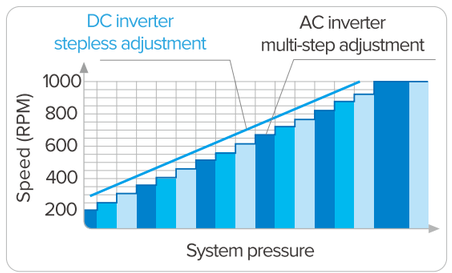
High Efficiency

Full DC Inverter Technology

Full DC Inverter for Outdoor Components

The 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.





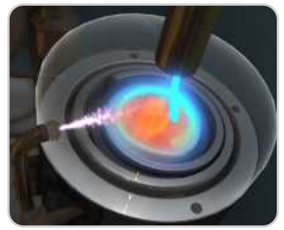
Wider frequency adjustment range

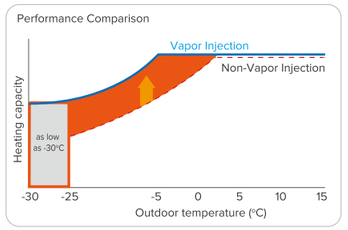
Faster cooling and heating

Higher energy efficiency

Enhanced Vapor Injection (EVI) Compressor

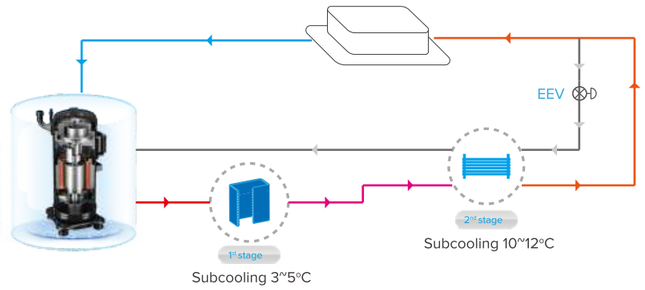
The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves both cooling and heating capacity.





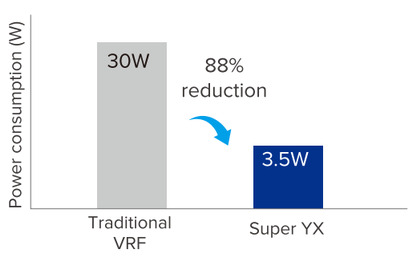
Advanced Subcooling Technology

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



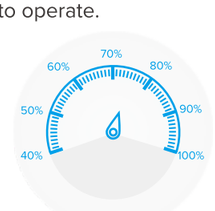
Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the 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.



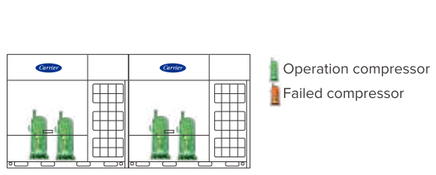
High Reliability

Quadruple Backup

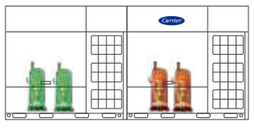
In two fans, two compressors and multiple units, one can run in backup for another. Additionally, the X power series VRF generates a corresponding virtual sensor for each physical sensor by means of a digital algorithm, which serves as a backup for each other, ensuring no shutdown in the event of a fault,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



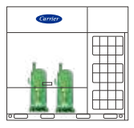
Intelligent load-bearing between units during normal operation



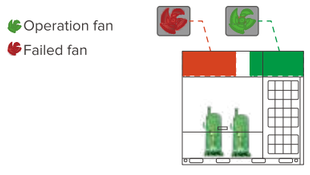
Continue operating in case of failure of one unit

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.



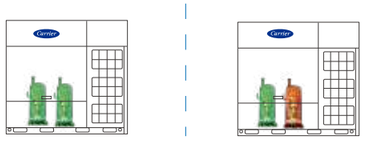
In normal operation, each fan runs on demand



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

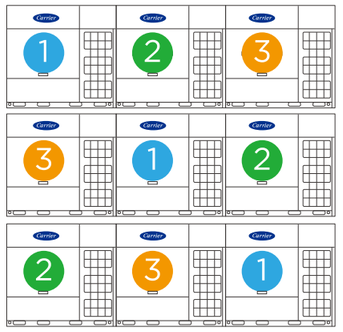
Through digital algorithms, each physical sensor generates a corresponding virtual sensor that acts as a backup to each other, ensuring that the failure of one sensor does not affect the normal operation of the system.

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

Double Duty Cycling

1 Unit Duty Cycling

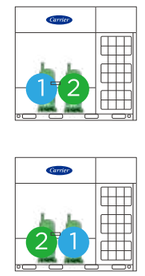
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



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

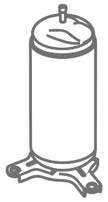
Insect proof

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.

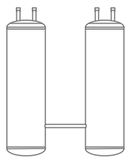
Precise Oil Control

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

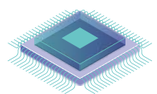


1 Compressor internal oil separation.

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.

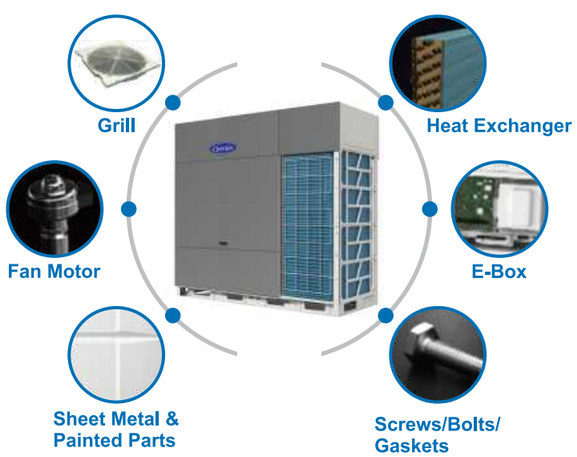


4 The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

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.



UL Anti-Corrosion Certificate*

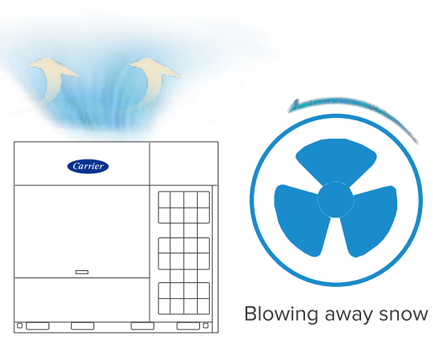
It has been certified by UL that our VRF outdoor unit can withstand 27 years of simulated severe corrosion under a salt contaminated traffic environment.

*UL anti-corrosion certificate is available for heavy anti-corrosion treatment units.

Outdoor Unit can resist 27 years of simulated severe corrosion under a salt contaminated traffic environment

Auto Snow-blowing Function

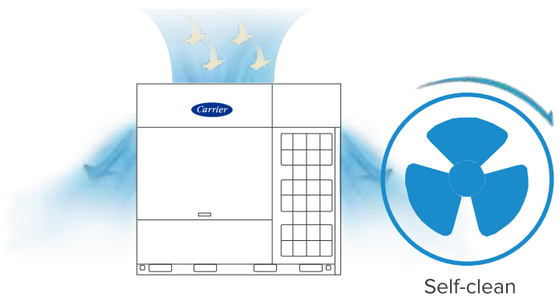
The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.



Blowing away snow

Auto Dust-clean Function

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

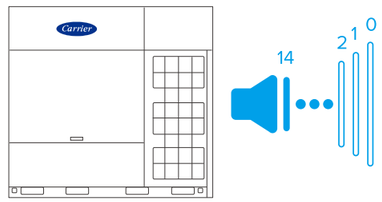


Self-clean

Enhanced Comfort

Advanced Silent Technology

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



15 silent options

6 Priority Modes

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

Cooling priority

Auto priority

Cooling only

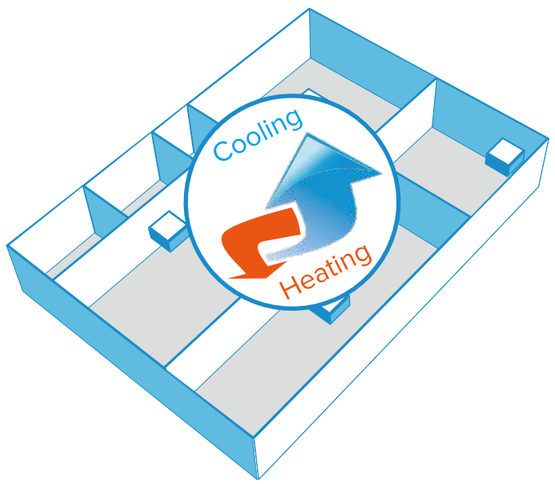
Heating only

Quantity vote priority

VIP priority

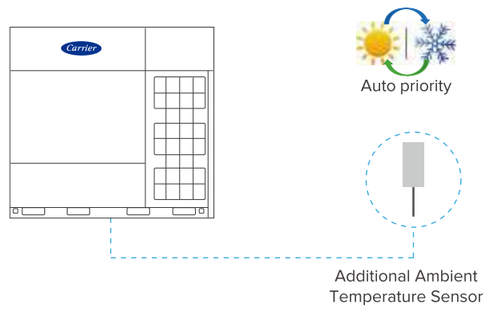
Auto Cooling-heating Changeover

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



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 combinable 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 - Combinable Series

Single unit

8-20HP

Single unit

22-28HP

Single unit

30-38HP

Combined unit

40-76HP

Combined unit

78-114HP

X power - Individual Series

Single unit

8-20HP

Single unit

22-28HP

Single unit

30-38HP

Wide Range of Indoor Units

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

Wide Operation Range

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

Long Piping Capability

The total piping length of the 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**

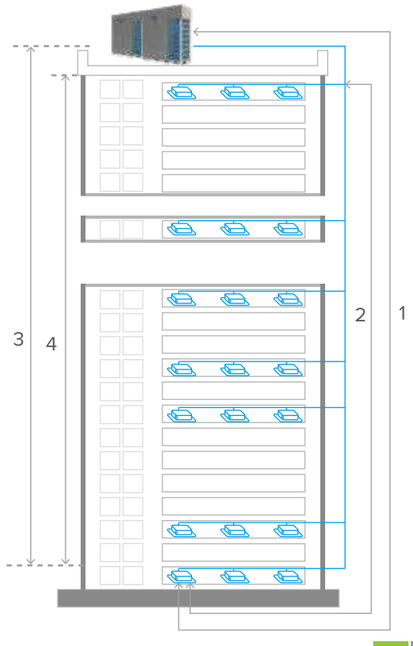
1 Longest piping length - actual (equivalent): **220(260)m**

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

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

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

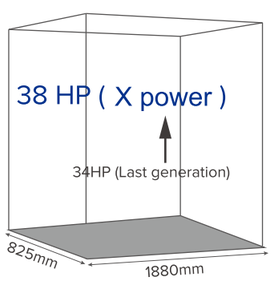
*The longest length after first branch is 40m as standard but can be extended to up to 120m under certain conditions. Please contact your local dealer for further information.

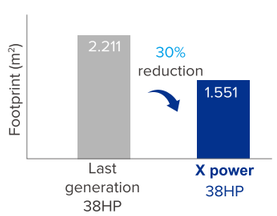


Easy Installation and Service

Space Saving

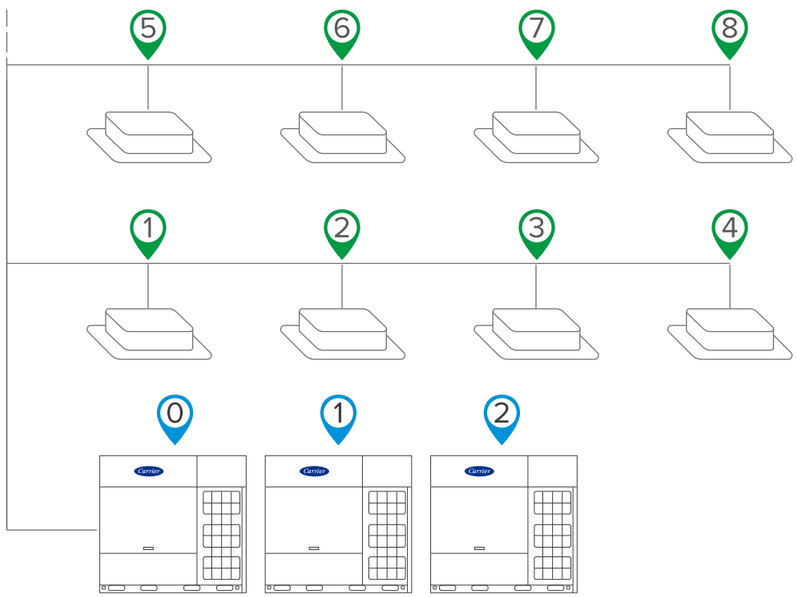
The X power Series VRF has large capacity and small size, with a capacity of up to 38 HP in a single unit. A single unit can provide cooling/heating for a space of 400m². The space-saving advantages are particularly obvious for large projects.





Auto Addressing

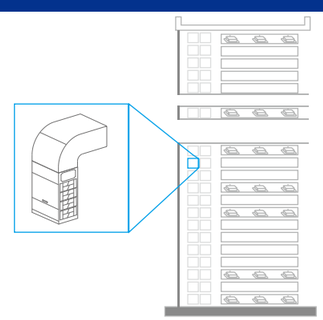
Addresses for all indoor units and combined outdoor units can be assigned automatically by the X power system, further simplifying installation.



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*

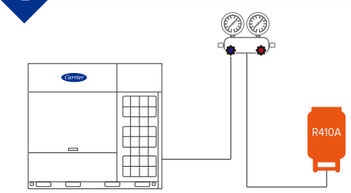
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

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

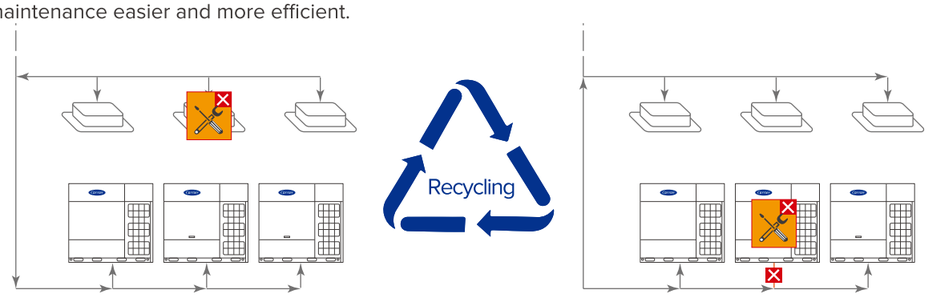
1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish filling process



*This function is available as a customization option.

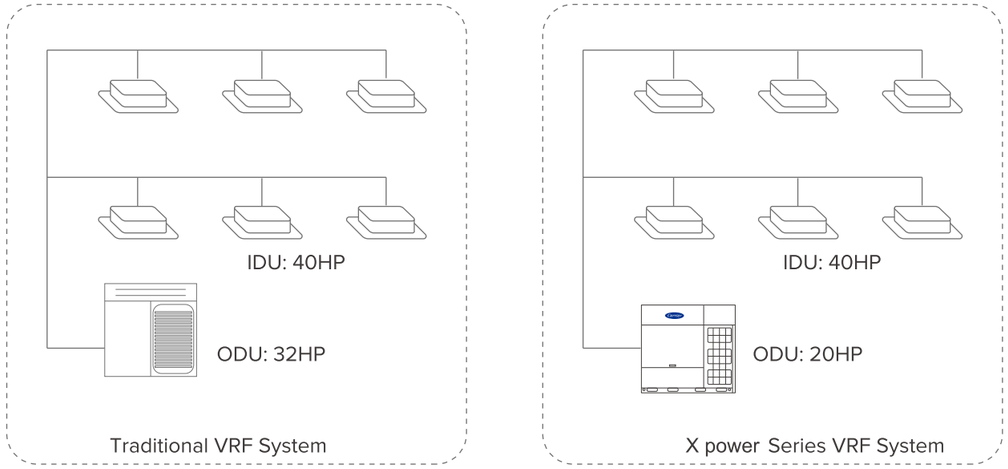
Automatic Refrigerant Recycling

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.



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

Easy Software Program Upgrade

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

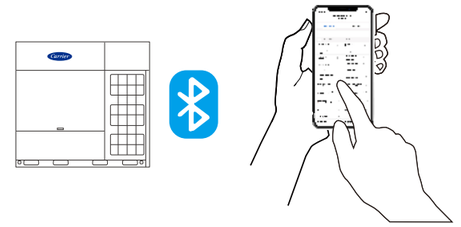
*Optional feature selected IDU

Smart Commissioning/Maintenance Tool

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

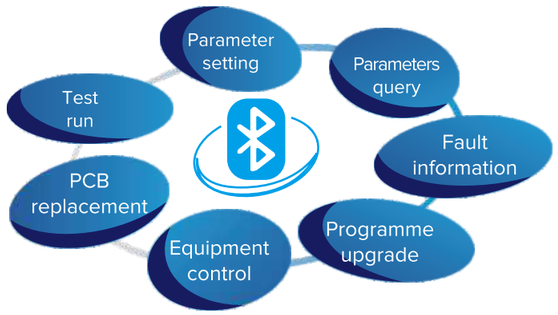
Useful in the following situations:

- Installation
- Service maintenance



Main functions:

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



SPECIFICATIONS

X Power (Combinable series)

HP			8	10	12	14
						
Model			38VF008H119018-X	38VF010H119018-X	38VF012H119018-X	38VF014H119018-X
Power supply		V/Ph/Hz	380-415/3/50(60)			
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 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.	Cooling	°C	-15 to 55			
operation range	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(60)			
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 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.	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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			24	26	28	30
						
Model			38VF024H119018-X	38VF026H119018-X	38VF028H119018-X	38VF030H119018-X
Power supply		V/Ph/Hz	380-415/3/50(60)			
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 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			

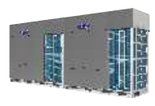
HP			32	34	36	38
						
Model			38VF032H119018-X	38VF034H119018-X	38VF036H119018-X	38VF038H119018-X
Power supply		V/Ph/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	90	95.2	101	106
		kBtu/h	307.1	324.8	344.6	361.7
Heating[2]	Capacity	kW	100	106	112	119
		kBtu/h	341.2	361.7	382.2	406
Maximum indoor unit Combinations			53	56	59	62
Compressor	Type		DC 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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			40	42	44	46
						
Model			38VF040H119018-X	38VF042H119018-X	38VF044H119018-X	38VF046H119018-X
Power supply		V/Ph/Hz	380-415/3/50(60)			
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 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(60)			
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 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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. 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 Super X Power Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			56	58	60	62
						
Model			38VF056H119018-X	38VF058H119018-X	38VF060H119018-X	38VF062H119018-X
Power supply		V/Ph/Hz	380-415/3/50(60)			
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 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	°C	-15 to 55			
operation range	Heating	°C	-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(60)			
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 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	°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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. 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 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			72	74	76	78
						
Model			38VF072H119018-X	38VF074H119018-X	38VF076H119018-X	38VF078H119018-X
Power supply		V/Ph/Hz	380-415/3/50(60)			
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 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	°C	-15 to 55			
operation range	Heating	°C	-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(60)			
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 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	°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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. 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 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			88	90	92	94
						
Model			38VF088H119018-X	38VF090H119018-X	38VF092H119018-X	38VF094H119018-X
Power supply		V/Ph/Hz	380-415/3/50(60)			
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 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(60)			
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 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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. 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 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			104	106	108	110
						
Model			38VF0104H119018-X	38VF0106H119018-X	38VF0108H119018-X	38VF0110H119018-X
Power supply		V/Ph/Hz	380-415/3/50(60)			
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 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			Φ28.6
	Gas pipe	mm	Φ50.8			Φ54.0
Sound pressure level[4]		dB(A)	68			
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(60)	
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 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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. 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 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

X Power i (Combinable series)

HP			8	10	12	14
						
Model			38VF008H119018-Xi	38VF010H119018-Xi	38VF012H119018-Xi	38VF014H119018-Xi
Power supply		V/Ph/Hz	380-415/3/50(60)			
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 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(60)			
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 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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			24	26	28	30
						
Model			38VF024H119018-Xi	38VF026H119018-Xi	38VF028H119018-Xi	38VF030H119018-Xi
Power supply		V/Ph/Hz	380-415/3/50(60)			
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 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(60)			
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 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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. 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.

2nd Generation VRF
INDOOR UNITS

Indoor Unit Functions

Functions			One-way Cassette	Two-way Cassette	Compact Four-way Cassette	Four-way Cassette	Medium Static Pressure Duct	High Static Pressure Duct	Wall Mounted	Ceiling & Floor	Floor Standing	Fresh Air Processing Unit
Comfort	Cold air prevention	When starting to warm up, the fan speed is automatically adjusted according to coil temperature to prevent cold air discharge. After warming up, fan speed is set as desired	●	●	●	●	●	●	●	●	●	●
	Quiet operation	All indoor units are quiet operation	●	●	●	●	●	●	●	●	●	●
	Auto cooling-heating changeover[1]	Automatically selects cooling or heating mode to achieve the set temperature	●	●	●	●	●	●	●	●	●	●
	Digital display on/off	Indoor unit displays can be shut off at night, creating a better environment for rest	●	●	●	●	●	●	●	●	●	●
	Buzzer sound on/off	The buzzer sound of the indoor unit can be turned off to create a quieter environment	●	●	●	●	●	●	●	●	●	●
	Heat stratification compensation	The heat stratification compensation function in HEAT mode obtains a value that more closely reflects the true temperature of the air conditioned space	●	●	●	●	●	●	●	●	●	●
	Two thermistors control	The indoor temperature can be checked using the thermistor in the remote controller as well as from the indoor unit	●	●	●	●	●	●	●	●	●	●
	0.5℃/1℃ setting temperature adjustment	Set temperature can be adjusted in 0.5℃ or 1℃ steps , enabling precise comfort control	●	●	●	●	●	●	●	●	●	●
Health	Air filter	Removes airborne dust particles to ensure a steady supply of clean air	●	●	●	●	●	●	●	●	●	●
	Fresh air intake	A reserved outside air intake port allows outdoor air to be introduced directly into the unit	●	●	●	●	●	×	×	×	×	●
	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	●	●	●	●	●	●	●	●	●	●
Air flow	Vertical swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution	5 steps setting+auto	5 steps setting+auto	5 steps setting+auto	5 steps setting+auto	×	×	5 steps setting+auto	5 steps setting+auto	×	×
	Horizontal swing	Possibility to select automatic horizontal moving of the air discharge louvre, for uniform air flow and temperature distribution	Manually set fixed angle+auto (45-71)	×	×	×	×	×	×	Manually set fixed angle+auto	×	×
	Fan speed steps	3 or 7 fan speeds can be selected to optimize comfort levels	3+auto	3+auto	3+auto	3+auto	3+auto	3+auto	7+auto	3+auto	7+auto	7+auto
	Individual louver control[2]	Individual louver control via the wired remote controller makes it simple to fix the position of each flap individually	×	×	×	● (360° panel)	×	×	×	×	×	×
	Auto fan speed	Automatically controls rotation speed of fan depending on indoor load to achieve efficiency and comfort simultaneously	●	●	●	●	●	●	●	●	●	●
	Soft wind mode	Supply air against the ceiling to create windless environment	×	×	×	●	×	×	×	×	×	×
	Adjustable ESP	ESP can be adjusted over a wide range to ensure constant airflow	×	×	×	×	●	●	×	×	● (Concealed) × (Exposed)	●
Remote control & timer	Timer	Timer can be set to start and stop operation anytime on a daily or weekly basis	●	●	●	●	●	●	●	●	●	●
	Infrared remote control	Infrared remote control with LCD to remotely control your indoor unit	●	●	●	●	●	●	●	●	●	●
	Wired remote control	Wired remote control to remotely control your indoor unit	●	●	●	●	●	●	●	●	●	●
	Group control	Up to 16 indoor units can be in a group control system	●	●	●	●	●	●	●	●	●	●
	Centralized control	Centralized control to control several indoor units from one single point	●	●	●	●	●	●	●	●	●	●
	℃/℉ setting	Temperature unit ℃ or ℉ can be set according to your usage habits	●	●	●	●	●	●	●	●	●	●
Other functions	Energy saving[3]	Using Infrared Sensor Controller automatically turns indoor units on or off upon sensing that the room is occupied or unoccupied,ensuring climate control whilst minimizing energy consumption	●	●	●	●	●	●	●	●	●	●
	Auto-restart	The unit restarts automatically at the original settings after power failure	●	●	●	●	●	●	●	●	●	●
	Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies	●	●	●	●	●	●	●	●	●	●
	Drain pump	Facilitates condensation draining from the indoor unit	●	●	●	●	●	○	×	×	×	○
	Fan only	The air conditioner can be used as fan, blowing air without cooling or heating	●	●	●	●	●	●	●	●	●	●
	Long-distance on/off function	Long-distance startup or shutoff the system	○	○	○	○	○	○	○	○	○	○
	Long-distance alarm function	Long-distance alarm when an error occurs	○	○	○	○	○	○	○	○	○	○
	Multiple protections	Multiple protections make the unit run more reliably	●	●	●	●	●	●	●	●	●	●
	Easy cleaning	The unit is easy cleaning thanks to the rational design	●	●	●	●	●	●	●	●	●	●

Note:
●: equipped as standard; ○: customization option; ×: without this function
1. Please contact your local dealer for detailed information.
2. The indoor units must be customized before order so as to use 360° panel with individual louver control,inproper combinations may cause malfunction.
3. Energy saving function needs to be realized with the infrared sensor controller.

One-way Cassette

Meeting corner location requirements and at the same time maintaining the required visual appearance.

Key Features

One-way Cassette		
Comfort	Quiet operation	●
	0.5℃/1℃ setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Fresh air intake	●(45 to 71)
	Dirty filters indicator signal	●
Air flow	Multiple fan speeds	3+auto
	Multiple steps vertical swing	5+auto
Easy installation	Minimized height	●
	High-lift drain pump	Rated head: 1200mm Raise height: 750mm

Note:
●: equipped as standard

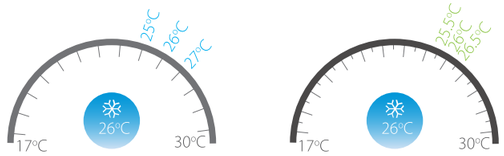
COMFORT

Quiet Operation

The One-way Cassette's optimized, low resistance air outlets reduce noise levels to as low as 22dB(A).

0.5℃/1℃ Setting Temperature Adjustment

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



Digital Display On/Off

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

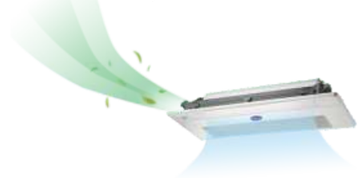
Buzzer Sound On/Off

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

HEALTH

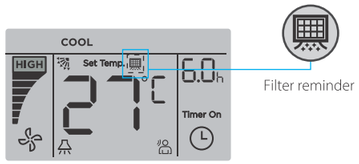
Fresh Air Intake

A reserved outside air intake port allows outdoor fresh air to be introduced directly into the unit, negating the need for a separate ventilation system.



Dirty Filters Indicator Signal

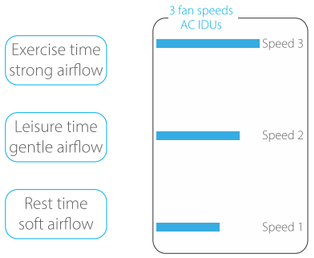
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

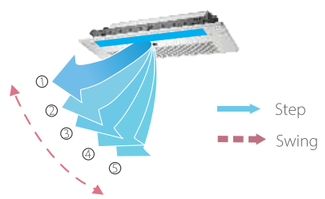
Multiple Fan Speeds

AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



Multiple Steps Vertical Swing

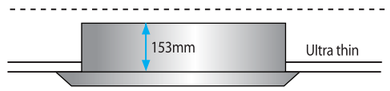
There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.



EASY INSTALLATION

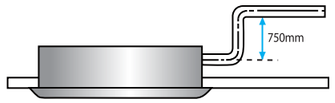
Easy Installation

The slim, compact design make the One-way Cassette ideal for interiors with limited ceiling space. Models 18 to 36 are just 153mm high whilst models 45 to 71 are 189mm high.



High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.



Specifications

50Hz Series

Model			40VZ005H 11200013	40VZ006H 11200013	40VZ009H 11200013	40VZ012H 11200013	40VZ018H 11200013	40VZ024H 11200013	40VZ028H 11200013
Power supply			1 phase, 220-240V, 50Hz						
Cooling[1]	Capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
	Input	W	41	41	41	41	48	48	60
Heating[2]	Capacity	kW	2.2	2.6	3.2	4	5	6.3	8
	Input	W	41	41	41	41	48	48	60
Indoor fan motor	Type		AC						
	Quantity		1						
Airflow rate (H/M/L)		m^3/h	523/404/275	523/404/275	573/456/315	573/456/315	693/600/476	792/688/549	933/749/592
Sound pressure level (H/M/L)[3]		dB(A)	37/34/30	37/34/30	39/37/34	39/37/34	41/39/35	42/40/36	44/41/37
Refrigerant type			R410A						
Indoor unit	Dimension[4] (WxHxD)	mm	1054×153×425				1275×189×450		
	Packing (WxHxD)	mm	1155×245×490				1370×295×505		
	Net/Gross weight	kg	12.5/16		13/16.5		18.5/22.8	18.8/23.1	19.5/23.8
Panel	Dimension (WxHxD)	mm	1180×25×465				1350×25×505		
	Packing (WxHxD)	mm	1232×107×517				1410×95×560		
	Net/Gross weight	kg	3.5/5.2				4/5.4		
Pipe connections	Liquid pipe	mm	Φ6.35					Φ9.53	
	Gas pipe	mm	Φ12.7					Φ15.9	
	Drain pipe	mm	OD Φ25						

Two-way Cassette

Compact and lightweight two-way airflow, perfect for limited ceiling space applications.

Key Features

Two-way Cassette		
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Fresh air intake	●
	Dirty filters indicator signal	●
Air flow	Multiple fan speeds	3+auto
	Multiple steps vertical swing	5+auto
Easy installation	Minimized height	●
	High-lift drain pump	Rated head: 1200mm Raise height: 750mm

Note:
●: equipped as standard

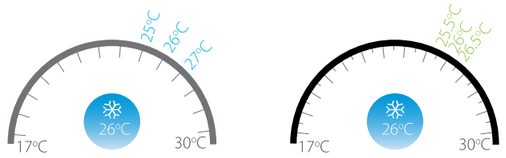
COMFORT

Quiet Operation

The Two-way Cassette's optimized, low resistance air outlets reduce noise levels to as low as 24dB(A).

0.5℃/1℃ Setting Temperature Adjustment

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

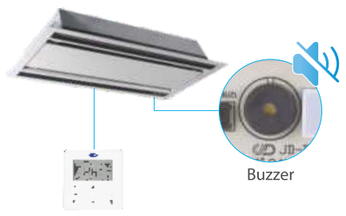


Digital Display On/Off

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

Buzzer Sound On/Off

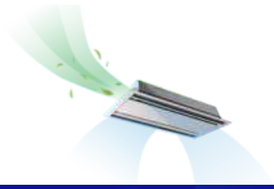
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

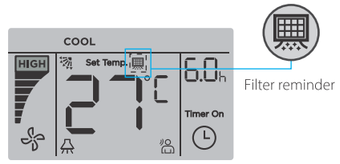
Fresh Air Intake

A reserved outside air intake port allows outdoor fresh air to be introduced directly into the unit, negating the need for a separate ventilation system.



Dirty Filters Indicator Signal

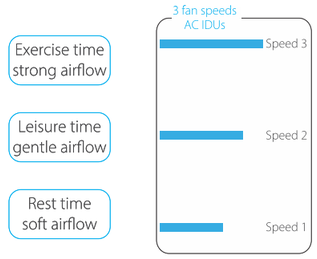
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

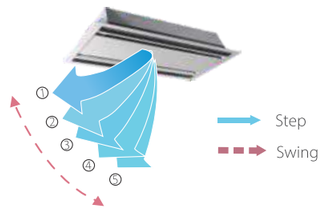
Multiple Fan Speeds

AC Series supplies 3 indoor fan speeds to meet the needs of different indoor conditions.



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.



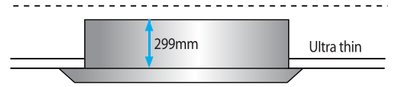
EASY INSTALLATION

High Airflow

A high airflow rate ensures even airflow and temperature throughout the room, even in high ceiling installations.

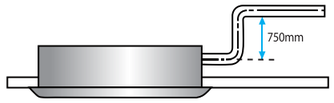
Easy Installation

The slim, compact design make the Two-way Cassette ideal for interiors with limited ceiling space.



High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.



Specifications

50Hz Series

Model			40VT006H 10200013	40VT009H 10200013	40VT012H 10200013	40VT018H 10200013	40VT024H 10200013	40VT028H 10200013
Power supply			1 phase, 220-240V, 50Hz					
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Input	W	57	57	60	92	108	154
Heating[2]	Capacity	kW	2.6	3.2	4	5	6.3	8
	Input	W	57	57	60	92	108	154
Indoor fan motor	Type		AC					
	Quantity		1					
Refrigerant type			R410A					
Airflow rate (H/M/L)		m^3/h	654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1200/1000/770
Sound pressure level (H/M/L)[3]		dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34
Indoor unit	Dimension[4] (WxHxD)	mm	1172×299×591					
	Packing (WxHxD)	mm	1355×400×675					
	Net/Gross weight	kg	34/42.5			36/44.5		
Panel	Dimension (WxHxD)	mm	1430×53×680					
	Packing (WxHxD)	mm	1525×130×765					
	Net/Gross weight	kg	10.5/15					
Pipe connections	Liquid pipe	mm	Φ6.35				Φ9.53	
	Gas pipe	mm	Φ12.7				Φ15.9	
	Drain pipe	mm	OD Φ32					

Compact Four-way Cassette

Compact design allows installation in shallow ceilings.

Key Features

Compact Four-way Cassette		
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Fresh air intake	●
	Dirty filters indicator signal	●
Air flow	360° airflow	●
	Multiple fan speeds	3+auto
	Multiple steps vertical swing	5+auto
Easy installation	Compact size	●
	High-lift drain pump	Rated head: 1000mm Raise height: 500mm

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

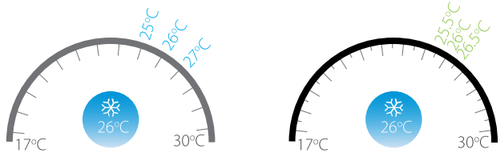
COMFORT

Quiet Operation

The Compact Four-way Cassette's optimized, low resistance air outlets reduce noise levels to as low as 22dB(A).

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.

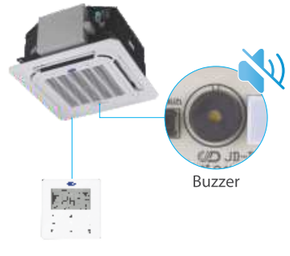


Digital Display On/Off

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

Buzzer Sound On/Off

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



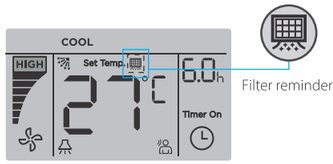
HEALTH

Fresh Air Intake

A reserved outside air intake port allows outdoor fresh air to be introduced directly into the unit, negating the need for a separate ventilation system.

Dirty Filters Indicator Signal

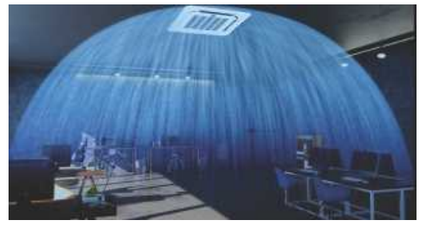
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

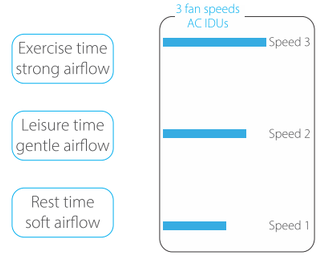
360° Airflow

The Compact Four-way Cassette's 360 ° air outlets provide strong airflow circulation to cool or heat every corner of a room and evenly control temperature.



Multiple Fan Speeds

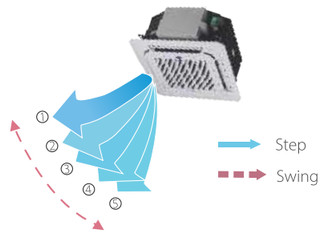
AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



EASY INSTALLATION

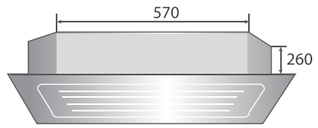
Multiple Steps Vertical Swing

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.



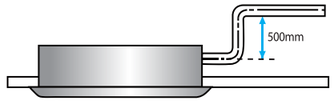
Compact Size

The slim and compact body has reduced the restriction enables the Compact Four-way Cassette successful installation in various ceiling spaces.



High-lift Drain Pump

A drain pump with a 500mm raise height is fitted as standard, simplifying installation of the drain piping.



Specifications

50Hz Series

Model			40VX006H11200013	40VX009H11200013	40VX012H11200013	40VX018H11200013
Power supply			1 phase, 220-240V, 50Hz			
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5
	Input	W	50	50	56	56
Heating[2]	Capacity	kW	2.4	3.2	4	5
	Input	W	50	50	56	56
Indoor fan motor	Type		AC			
	Quantity		1			
Refrigerant type			R410A			
Airflow rate (H/M/L)		m^3/h	414/313/238	414/313/238	521/409/314	521/409/314
Sound pressure level (H/M/L)[3]		dB(A)	36/33/23	36/33/23	42/36/29	42/36/29
Indoor unit	Dimension[4] (WxHxD)	mm	570×260×630			
	Packing (WxHxD)	mm	675×285×675			
	Net/Gross weight	kg	17/20		18.5/21.5	
Panel	Dimension (WxHxD)	mm	647×50×647			
	Packing (WxHxD)	mm	715×123×715			
	Net/Gross weight	kg	2.5/4.5			
Pipe connections	Liquid pipe	mm	Φ6.35			
	Gas pipe	mm	Φ12.7			
	Drain pipe	mm	ODΦ25			

Four-way Cassette

360° airflow for immediate, equal distribution of wider-angle cooling and heating, idea for standard ceilings.

Key Features

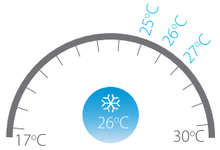
Four-way Cassette		
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	●
	Fresh air intake	●
	Dirty filters indicator signal	●
Air flow	360° airflow	●
	Individual louver control	○
	Soft wind	●
	Multiple fan speeds	3+auto
	Multiple steps vertical swing	5+auto
Easy installation	Compact size	●
	High ceiling installation	●
	High-lift drain pump	Rated head: 1200mm Raise height: 750mm

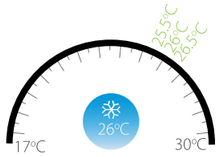
Note:
●: equipped as standard; ○: customization option

COMFORT

0.5℃/1℃ Setting Temperature Adjustment

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





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.

HEALTH

Optional G3-class Air Filter

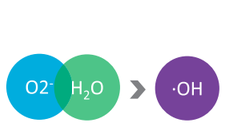
The DC Four-way Cassette supports 30Pa external static pressure for the G3-class filter installation. Filtering effect of the G3-class filter reaches up to 80%-90% against coarse dust (particle size > 10 μm), creating a cleaner living environment.

The optional filter comply with EN779:2012

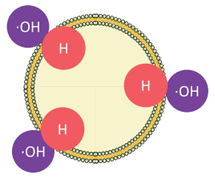
Note: This function is available for 360° panel only.

Ionizer Sterilization

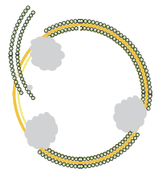
The powerful Ionizer protects you from bad odors and harmful bacteria. The circulating sterilization rate is over 96%.



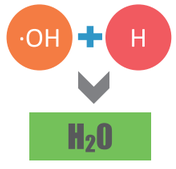
1.Negative ions combine with water molecules to form OH radicals



2.OHradical extraction of hydrogen from bacterial proteins



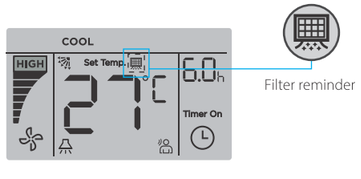
3.Components of bacterial tissues are destroyed and become ineffective (realize sterilization)



4. OH radicals eventually reduce to natural water molecules (pollution-free)

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.



AIR FLOW

360° Airflow

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

Individual louver control*

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

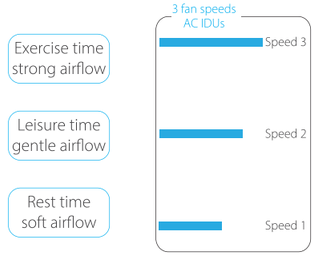
*The indoor units must be customized before order so as to use 360° panel with individual louver control,inproper combinations may cause malfunction.

Soft Wind Mode

In soft wind mode, supply air against the ceiling to create windless environment, more comfort.

Multiple Fan Speeds

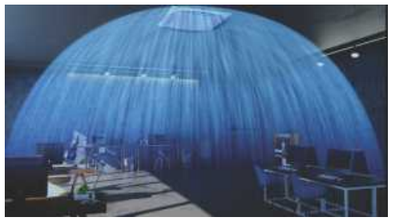
The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



EASY INSTALLATION

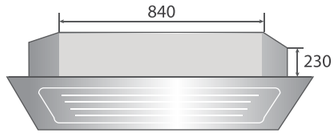
High Ceiling Installation

The Four-way Cassette reserves a super high fan speed for high ceiling installation, it can provide power full cooling and heating up to 4.2m in height from floor.



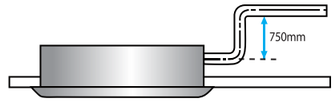
Compact Size

The height of models 28 to 80 are just 230mm whilst models 90 to 160 are 300mm, making the Four-way Cassette idea for standard ceilings.



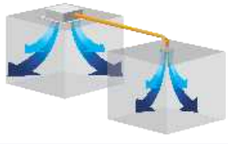
High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.



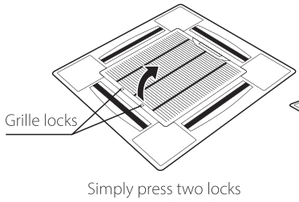
Sub Duct

Connecting a sub-duct enables an indoor unit to be used to also cool a smaller nearby space.

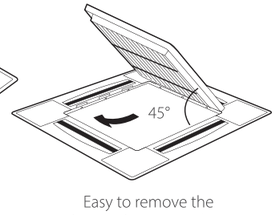


Convenient Panel Installation

The user-friendly design makes the panels very easy to install and simplifies field work.



Simply press two locks to open the grille



Easy to remove the installation cover plate

Specifications

50Hz Series

Model			40VK009H11200013	40VK012H11200013	40VK018H11200013	40VK024H11200013	40VK028H11200013
Power supply			1 phase, 220-240V, 50Hz				
Cooling[1]	Capacity	kW	2.8	3.6	4.5	5.6	7.1
	Power input	W	80	80	88	88	88
Heating[2]	Capacity	kW	3.2	4	5	6.3	8
	Power input	W	80	80	88	88	88
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Airflow rate (H/M/L)		m^3/h	764/638//554	764/638//554	905/740//651	905/740//651	950/767//663
Sound pressure level (H/M/L)[3]		dB(A)	32/31/30	32/31/30	36/34/33	36/34/33	38/36/35
Indoor unit	Dimension[4] (WxHxD)	mm	840×230×840				
	Packing (WxHxD)	mm	955×260×955				
	Net/Gross weight	kg	21.5/26.7		23.7/28.9		
Panel	Dimension (WxHxD)	mm	950×50×950				
	Packing (WxHxD)	mm	1035×89×1035				
	Net/Gross weight	kg	5.8/7.9				
Pipe connections	Liquid pipe	mm	Φ6.35			Φ9.53	
	Gas pipe	mm	Φ12.7			Φ15.9	
	Drain pipe	mm	ODΦ32				

Model			40VK032H11200013	40VK036H11200013	40VK040H11200013	40VK048H11200013	40VK056H11200013
Power supply			1 phase, 220-240V, 50Hz				
Cooling[1]	Capacity	kW	8	9	10	11.2	14
	Power input	W	110	140	165	165	176
Heating[2]	Capacity	kW	9	10	11.1	12.5	16
	Power input	W	110	140	165	165	176
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Airflow rate (H/M/L)		m^3/h	1200/1021/789	1332/1129/908	1651/1304/1127	1651/1304/1127	1658/1335/1130
Sound pressure level (H/M/L)[3]		dB(A)	42/39/37	43/39/38	45/42/40	45/42/40	46/41/39
Indoor unit	Dimension[4] (WxHxD)	mm	840×230×840	840×300×840			
	Packing (WxHxD)	mm	955×260×955	955×330×955			
	Net/Gross weight	kg	23.7/28.9	28.7/34.1	28.7/34.1	28.7/34.1	30.9/36.3
Panel	Dimension (WxHxD)	mm	950×50×950				
	Packing (WxHxD)	mm	1035×89×1035				
	Net/Gross weight	kg	5.8/7.9				
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
	Drain pipe	mm	ODΦ32				

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. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Medium Static Pressure Duct

Slim, compact design for limited space with duct distribution to the indoor space.

Key Features

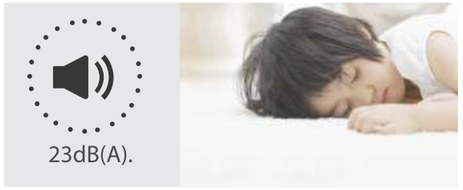
Medium Static Pressure Duct		
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	● ○ (G3-class)
	Innovative puro-air kit	●
	Fresh air intake	●
	Dirty filters indicator signal	●
Air flow	Adjustable ESP	×
	Multiple fan speeds	3+auto
Easy installation	Compact size	●
	Stylish air discharge panel	○ (17 to 71)
	Flexible air inlet port installation	●
	High-lift drain pump	Rated head: 1200mm Raise height: 750mm

Note:
●: equipped as standard; ○: customization option; ×: without this function

COMFORT

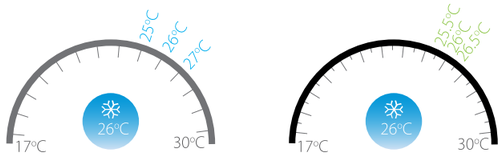
Quiet Operation

The Medium Static Pressure Duct indoor unit utilizes centrifugal blowers, reducing noise levels to as low as 23dB(A), and is an excellent choice for hotels and other noise-sensitive locations.



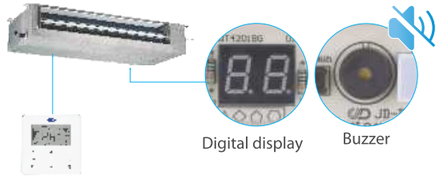
0.5℃/1℃ Setting Temperature Adjustment

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



Digital Display and Buzzer Sound On/Off

Indoor unit displays can be shut off at night and buzzer sound can be set off to not disturb the user, creating a better environment for rest.



HEALTH

Optional G3-class Air Filter

G3-class filter is optional for Medium Static Pressure Duct installation. Filtering effect of the G3-class filter reaches up to 80%-90% against coarse dust (particle size > 10 μm), creating a cleaner living environment.

The optional filter comply with EN779:2012

Innovative Puro-air Kit

Puro-Air kit, powered by OSRAM's UVC lamps, can effectively kill bacteria, viruses and odors of indoor air to provide a healthy and safe indoor environment. It is also innovatively designed so that it could prevent UV damage to the eyes, skin, and respiratory tract.

Puro-Air Kit
Protectors of health and safety

OSRAM From Germany -OSRAM quality UV light source

1st The world's first air conditioning sterilization product certification
99.9% Effective killing rate of white grape fungus
99.9% Effective killing rate of H1N1
98% Effective killing rate of natural bacteria

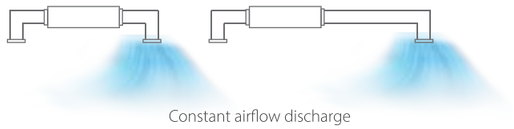
Ozone –Free
UV leakage-Free

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

AIR FLOW

Static Pressure 10 Steps Control

Depending on the installation environment, Medium Static Pressure Duct is controlled the static pressure up to 10 steps via wired remote controller, for providing comfortable environment suitable for any environment.

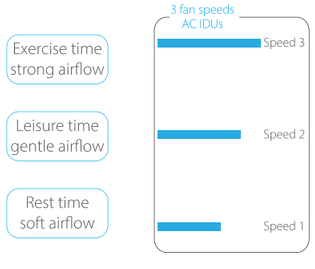


Constant airflow discharge

10 steps static pressure control

Multiple Fan Speeds

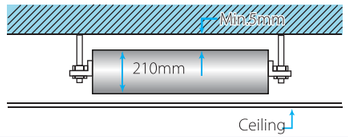
AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



EASY INSTALLATION

Compact Size

Models 22 to 71 are just 210mm high whilst models 80 to 112 are 270mm high and model 140 to 160 are 300mm high.

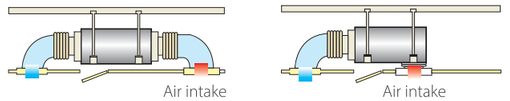


Stylish Air Discharge Panel

Stylish air discharge panel can be integrated with any decoration style (optional for models 17 to 71).

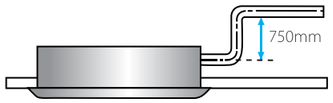
Flexible Air Inlet Port Installation

To provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.



High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.



Specifications

50Hz Series

Model			42VD006H112013013	42VD009H112013013	42VD012H112013013	42VD018H112013013	42VD024H112013013
Power supply			1 phase, 220-240V,50Hz				
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6
	Input	W	57	57	61	98	103
Heating[2]	Capacity	kW	2.6	3.2	4	5	6.3
	Input	W	57	57	61	98	103
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Airflow rate (H/M/L)		m^3/h	550/397/309	550/397/309	605/442/351	800/573/479	800/573/479
External static pressure (Std (Min~Max))		Pa	10(0~30)	10(0~30)	10(0~30)	10(0~30)	10(0~30)
Sound pressure level (H/M/L)[3]		dB(A)	31/24/21	31/24/21	35/28/24	36/29/26	36/29/27
Indoor unit	Dimension[4] (WxHxD)	mm	778x210x500			997x210x500	
	Packing (WxHxD)	mm	870×285×525			1115×285×525	
	Net/Gross weight	kg	17.5/20			22/25	
Piping connections	Liquid pipe	mm	Φ6.35				Φ9.53
	Gas pipe	mm	Φ12.7				Φ15.9
	Drain pipe	mm	OD Φ25				

Model			42VD028H 112013013	42VD032 H112003013	42VD036 H112003013	42VD040 H112003013	42VD048 H112003013	42VD052 H112003013	42VD054 H112003013
Power supply			1 phase, 220-240V,50Hz						
Cooling[1]	Capacity	kW	7.1	8	9	10	11.2	12.5	14
	Input	W	140	198	200	283	313	250	274
Heating[2]	Capacity	kW	8	9	10	11	12.5	13.5	15.5
	Input	W	140	198	200	283	313	250	274
Indoor fan motor	Type		AC						
	Quantity		1						
Refrigerant type			R410A						
Airflow rate (H/M/L)		m^3/h	985/738/630	1345/1165/1013	1345/1165/1013	1800/1556/1400	1800/1556/1400	1905/1636/1400	1905/1636/1400
External static pressure (Std (Min~Max))		Pa	10(0~30)	20(10~50)	20(10~50)	40(10~80)	40(10~80)	40(10~100)	40(10~100)
Sound pressure level (H/M/L)[3]		dB(A)	36/30/27	45/40/37	45/40/37	48/42/38	48/42/38	48/43/39	48/43/39
Indoor unit	Dimension[4] (WxHxD)	mm	1218x210x500	1230×270×775				1290×300×865	1290×300×865
	Packing (WxHxD)	mm	1335x285x525	1355×350×795				1400×375×925	1400×375×925
	Net/Gross weight	kg	27.5/31	37.5/43				46.5/55.5	46.5/55.5
Piping connections	Liquid pipe	mm	Φ9.53						
	Gas pipe	mm	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. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
All specifications are measured at standard external static pressure.

High Static Pressure Duct

High external static pressure with long duct distribution, ideal for large sized spaces.

Key Features

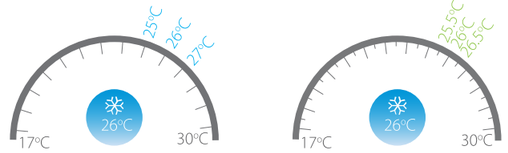
High Static Pressure Duct		
Comfort	Quiet operation	●
	0.5℃/1℃ setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	● ○ (G3-class)
	Innovative puro-air kit	○
	Dirty filters indicator signal	●
Air flow	Adjustable ESP	×
	Multiple fan speeds	3+auto
Easy installation	Compact size	●
	Flexible duct design	●
	Double-skin drainage pan	●
	High-lift water pump box	○

Note:
●: equipped as standard; ○: customization option; ×: without this function

COMFORT

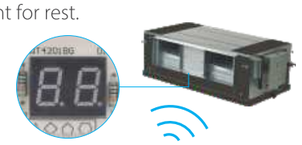
0.5℃/1℃ Setting Temperature Adjustment

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



Digital Display On/Off

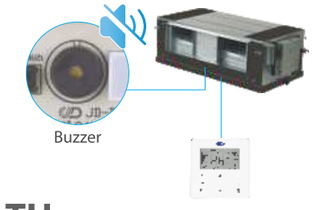
Indoor unit displays can be shut off at night, creating a better environment for rest.



Digital display

Buzzer Sound On/Off

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



Buzzer

HEALTH

Innovative Puro-air Kit

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99.9% Effective killing rate of white grape fungus
99.9% Effective killing rate of H1N1
98% Effective killing rate of natural bacteria

Ozone –Free
UV leakage-Free

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

Optional G3-class Air Filter

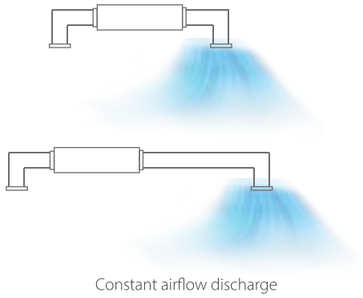
G3-class filter is optional for High Static Pressure Duct installation. Filtering effect of the G3-class filter reaches up to 80%-90% against coarse dust (particle size > 10 μm), creating a cleaner living environment.

The optional filter comply with EN779:2012

AIR FLOW

Static Pressure 20 Steps Control

Depending on the installation environment, High Static Pressure Duct is controlled the static pressure up to 20 steps via wired remote controller, for providing comfortable environment suitable for any environment.

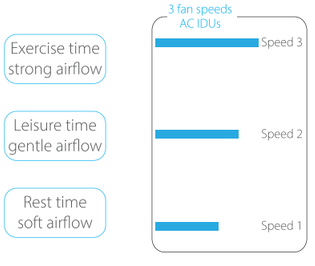


Constant airflow discharge

20 steps static pressure control

Multiple Fan Speeds

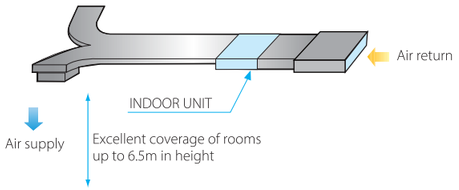
AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



EASY INSTALLATION

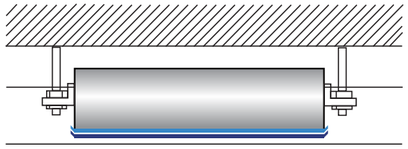
Flexible Duct Design

High Static Pressure Duct supplies a wide static pressure from 30Pa to 400Pa which can support short to long duct with high ceiling air supply.



Double-skin Drainage Pan

A double-skin drainage pan provides double protection for ceilings.



Specifications

50Hz Series

Model			42VD028H112011013	42VD032H112011013	42VD036H112011013	42VD048H112011013	42VD054H112011013	42VD055H112011013
Power supply			1 phase, 220-240V,50Hz					
Cooling[1]	Capacity	kW	7.1	8	9	11.2	14	16
	Input	W	263	263	423	524	724	940
Heating[2]	Capacity	kW	8	9	10	12.5	16	17
	Input	W	263	263	423	524	724	940
Indoor fan motor	Type		AC					
	Quantity		1					
Refrigerant type			R410A					
Airflow rate (SH/H/M/L)		m^3/h	1395/1315/1248/1204	1361/1285/1217/1175	1801/1687/1643/1431	2063/1939/1716/1533	2965/2561/2207/1905	3417/2875/2587/2383
External static pressure (Std(Min~Max))		Pa	25(25~ 196)	37(37~ 196)	37(37~ 196)	50(50~ 196)	50(50~ 196)	50(50~ 196)
Sound pressure level (SH/H/M/L)[3]		dB(A)	48/46/44/43	48/46/45/43	52/49/47/45	52/49/47/46	53/50/48/46	54/52/50/48
Indoor unit	Dimension[4] (WxHxD)	mm	965×423×690				1322×423×691	
	Packing (WxHxD)	mm	1090×440×768				1436×450×768	
	Net/Gross weight	kg	45/50	45/50	46.5/52.4	48/53	67/73	67/73
Piping connections	Liquid pipe	mm	Φ9.53					
	Gas pipe	mm	Φ15.9					
	Drain pipe	mm	OD Φ25					

Model			42VD056H112011013	42VD058H112011013	42VD060H112011013	42VD140H112011013	42VD160H112011013	42VD190H112011013
Power supply			1 phase, 220-240V,50Hz					
Cooling[1]	Capacity	kW	20	25	28	40	45	56
	Input	W	1408	1408	1408	2100	2100	2800
Heating[2]	Capacity	kW	22.5	26	31.5	45	50	63
	Input	W	1408	1408	1408	2100	2100	2800
Indoor fan motor	Type		AC					
	Quantity		2			3		
Refrigerant type			R410A					
Airflow rate (SH/H/M/L)		m^3/h	4600/3765/2900/2100			7500/5800/4310/3090	7500/5800/4310/3090	8400/5859/4300/3100
External static pressure (Std(Min~Max))		Pa	250(50~300)			300(50~400)		
Sound pressure level (SH/H/M/L)[3]		dB(A)	57/56/52/47			60/58/54/49	60/58/54/49	61/56/51/46
Indoor unit	Dimension[4] (WxHxD)	mm	1454x515x931			2010x680x905		
	Packing (WxHxD)	mm	1509x550x990			2095x800x964		
	Net/Gross weight	kg	124/135			202/233	202/233	202/233
Piping connections	Liquid pipe	mm	Φ12.7			Φ15.9		
	Gas pipe	mm	Φ22.2			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. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
All specifications are measured at standard external static pressure.

Wall Mounted

Stylish panel, ideal for rooms with no or narrow ceilings.

Key Features

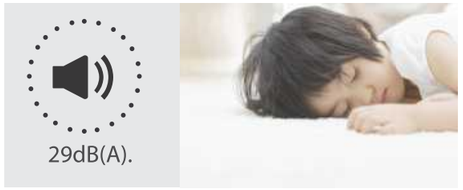
Wall Mounted		
Comfort	Quiet operation	●
	0.5°C/1°C setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	●
	Dirty filters indicator signal	●
Air flow	Multiple fan speeds	7+auto
	Multiple steps vertical swing	5+auto
Easy installation	Compact size	●
	Exposed installation, no need ceilings	●
	Flexible pipe outlet direction	●

Note:
●: equipped as standard

COMFORT

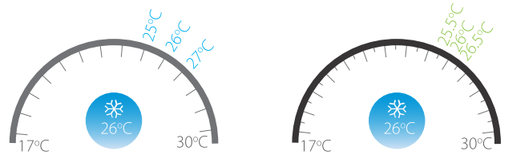
Quiet Operation

The minimum noise level of Wall Mounted is as low as 29dB(A), idea for hotels and other noise-sensitive locations.



0.5℃/1℃ Setting Temperature Adjustment

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



Digital Display On/Off

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

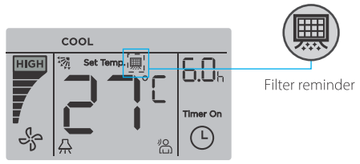
Buzzer Sound On/Off

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

HEALTH

Dirty Filters Indicator Signal

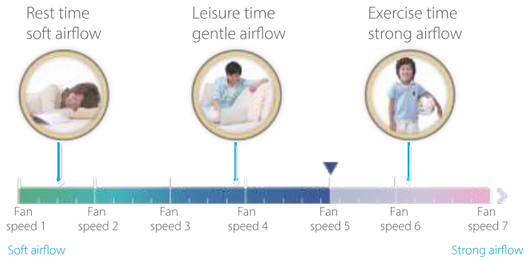
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

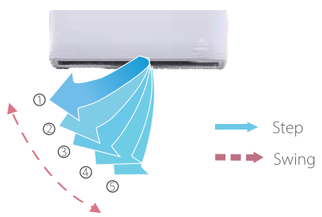
Multiple Fan Speeds

Both DC and AC Series come with 7 indoor fan speed options to meet the needs of different indoor conditions.



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.



Wall Mounted Unit

Refrigerant outlet direction can be left, right or rear as the installation situation requires

Standard controller

WL-12B-CM

Optional controller

WL-12F-CM

WR-86KD-CM

WR-120G-CM

Model			42VH006H115000106	42VH009H115000106
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
	Power input	W	28	28
Heating[2]	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
	Power input	W	28	28
Air flow rate [3]		m^3/h	422/411/402/393/380/368/356	417/402/386/370/353/338/316
Sound pressure level [4]		dB(A)	31/30/30/30/29/29/29	31/30/30/30/29/29/29
Unit	Net dimensions[5] (WxHxD)	mm	835×280×203	
	Packed dimensions (WxHxD)	mm	935×385×320	
	Net/Gross weight	kg	8.4/12.1	9.5/13.1
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	OD Φ16	

Model			42VH012H115000106	42VH018H115000106	42VH024H115000106
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	3.6	4.5	5.6
		kBtu/h	12.3	15.4	19.1
	Power input	W	30	40	45
Heating[2]	Capacity	kW	4.0	5.0	6.3
		kBtu/h	13.6	17.1	21.5
	Power input	W	30	40	45
Air flow rate [3]		m^3/h	656/628/591/573/544/515/488	594/563/535/507/478/450/424	747/713/685/648/613/578/547
Sound pressure level [4]		dB(A)	33/32/32/31/31/30/30	35/34/33/33/32/31/31	38/37/36/36/35/34/34
Unit	Net dimensions[5] (WxHxD)	mm	990×315×223		
	Packed dimensions (WxHxD)	mm	1085×420×335		
	Net/Gross weight	kg	11.4/15.5	12.8/16.9	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16		

Model			42VH028H115000106	42VH032H115000106	42VH036H115000106
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	7.1	8.0	9.0
		kBtu/h	24.2	27.3	30.7
	Power input	W	55	55	82
Heating[2]	Capacity	kW	8.0	9.0	10.0
		kBtu/h	27.3	30.7	34.1
	Power input	W	55	55	82
Air flow rate [3]		m^3/h	1195/1130/1065/1005/940/875/809	1195/1130/1065/1005/940/875/809	1421/1300/1125/1067/1005/934/867
Sound pressure level [4]		dB(A)	44/43/42/39/38/37/36	44/43/42/39/38/37/36	48/46/45/43/41/40/38
Unit	Net dimensions[5] (WxHxD)	mm	1194×343×262		
	Packed dimensions (WxHxD)	mm	1290×375×460		
	Net/Gross weight	kg	17.0/22.4		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ16		

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 1m in front and 1m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Ceiling & Floor

Two installation options are available: horizontally against the ceiling or vertically against the floor/wall, idea for wide rooms with no ceilings.

Key Features

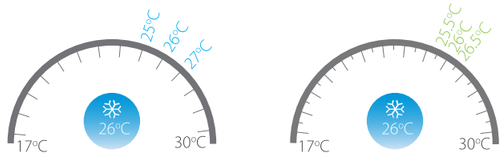
Ceiling & Floor		
Comfort	Quiet operation	●
	0.5℃/1℃ setting temperature adjustment	●
	Digital display on/off	●
	Buzzer sound on/off	●
Health	Air filter	●
	Dirty filters indicator signal	●
Air flow	Multiple fan speeds	3+auto
	Multiple steps vertical swing	5+auto
	Horizontal swing	●
Easy installation	Pure white stylish panel with slim design	●
	Exposed installation, easy installation and maintenance	●
	Two installation options	●

Note:
●: equipped as standard

COMFORT

0.5℃/1℃ Setting Temperature Adjustment

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

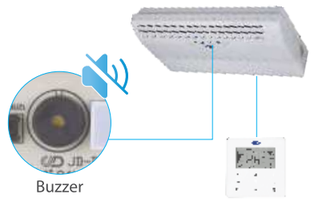


Digital Display On/Off

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

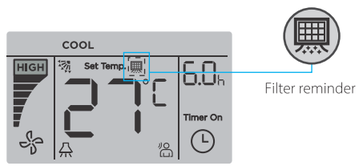
Buzzer Sound On/Off

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



Dirty Filters Indicator Signal

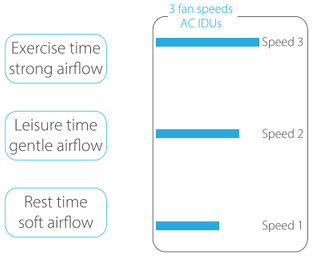
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

Multiple Fan Speeds

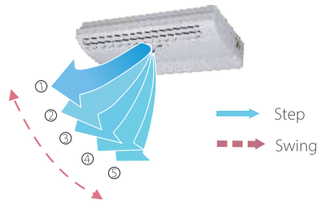
AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



Multiple Steps Vertical Swing and Horizontal Swing

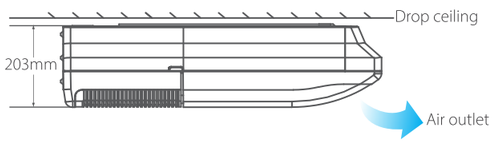
Vertical air flow direction can be adjusted 5 steps and horizontal air flow direction can be adjusted manually, both vertical and horizontal can be set auto swing.

Horizontal & Ver tical



Pure White Stylish Panel with Slim Design

Pure white stylish panel with slim design, perfect fusion in all kinds of decoration.

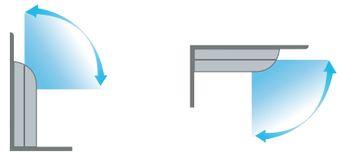


Exposed Installation, Easy Installation and Maintenance

The Ceiling & Floor unit is exposed installation, it is easy installation and maintenance. It can be serviced through the bottom of the machine, easy to access the key components of the unit.

Two Installation Options

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



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

Specifications

50Hz Series

Model			42VF012H112000013	42VF018H112000013	42VF024H112000013	42VF028H112000013
Power supply			1 phase, 220-240V,50Hz			
Cooling[1]	Capacity	kW	3.6	4.5	5.6	7.1
	Input	W	49	120	122	125
Heating[2]	Capacity	kW	4	5	6.3	8
	Input	W	49	120	122	125
Indoor fan motor	Type		AC			
	Quantity		1			
Refrigerant type			R410A			
Airflow rate (H/M/L)		m^3/h	650/570/500	800/600/500		
Sound pressure level (H/M/L)[3]		dB(A)	40/38/36	43/41/38		
Indoor unit	Dimension[4] (WxHxD)	mm	990×203×660			
	Packing (WxHxD)	mm	1089×296×744			
	Net/Gross weight	kg	26/32	28/34		
Piping connections	Liquid pipe	mm	Φ6.35		Φ9.53	
	Gas pipe	mm	Φ12.7		Φ15.9	
	Drain pipe	mm	ODΦ25			

Model			42VF032H112000013	42VF036H112000013	42VF048H112000013	42VF054H112000013
Power supply			1 phase, 220-240V,50Hz			
Cooling[1]	Capacity	kW	8	9	11.2	14
	Input	W	130	130	182	182
Heating[2]	Capacity	kW	9	10	12.5	15
	Input	W	130	130	182	182
Indoor fan motor	Type		AC			
	Quantity		1		2	
Refrigerant type			R410A			
Airflow rate (H/M/L)		m^3/h	1200/900/700		1980/1860/1730	
Sound pressure level (H/M/L)[3]		dB(A)	45/43/40		47/45/42	
Indoor unit	Dimension[4] (WxHxD)	mm	1280×203×660		1670×244×680	
	Packing (WxHxD)	mm	1379×296×744		1764×329×760	
	Net/Gross weight	kg	34.5/41		54/59	
Piping connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9			
	Drain pipe	mm	ODΦ25			

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. Floor standing: Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
   Ceiling mounted: Sound pressure level is measured 1m in front and 1m below the unit in a semi-anechoic chamber.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Fresh Air Processing Unit

- 100% fresh air processing unit, both fresh air filtration and heating/cooling can be achieved in a single system
- External static pressure up to 400Pa facilitates extensive duct and grille network
- 20-step static pressure control on all models (requires latest generation wired controllers)
- Water pump box is available as a option installed independently.

Optional controller

WL-12B-CM WL-12F-CM WR-86KD-CM WR-120G-CM

Model			42VD052H115211016	42VD054H115211016
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	12.5	14.0
		kBtu/h	42.6	47.8
	Power input	W	480	480
Heating[2]	Capacity	kW	10.5	12.0
		kBtu/h	36.0	41.0
	Power input	W	480	480
Air flow rate[3]		m^3/h	2000/1917/1833/1750/1667/1583/1500	
External static pressure		Pa	150(100-250)	
Sound pressure level[4]		dB(A)	48/47/46/45/44/43/42	
Unit	Net dimensions[5] (WxHxD)	mm	1322×423×691	
	Packed dimensions (WxHxD)	mm	1436×450×768	
	Net/Gross weight	kg	68/76	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ19.1	
	Drain pipe	mm	OD Φ25	
Operating temperature range		°C	Heating: -5 to 16; Cooling: 20 to 43; Fan only: 16 to 20	

Model			42VD056H115211016	42VD058H115211016	42VD060H115211016	42VD160H115211016	42VD190H115211016
Power supply			1 phase, 220-240V, 50/60Hz				
Cooling[1]	Capacity	kW	20.0	25.0	28.0	45.0	56
		kBtu/h	68.2	85.3	95.5	153.6	191
	Power input	W	850	850	850	1080	2272
Heating[2]	Capacity	kW	12.8	16.0	18.0	28.0	39
		kBtu/h	43.7	54.6	61.4	95.6	133
	Power input	W	850	850	850	1080	2272
Air flow rate[3]		m^3/h	3000/2833/2667/2500/2333/2167/2000			4200/3967/3733/3500/3267/3033/2800	6000/5665/5330/5000/4665/4330/4000
External static pressure		Pa	200(100-400)			300(100~ 400)	
Sound pressure level[4]		dB(A)	50/49/48/47/46/44/43			58/56/55/53/51/49/48	59/57/56/55/53/51/50
Unit	Net dimensions[5] (WxHxD)	mm	1454×515×931			2010×905×680	
	Packed dimensions (WxHxD)	mm	1509×550×990			2095×929×689	
	Net/Gross weight	kg	130/142			195/215	218/248
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2			Φ15.9/Φ28.6	
	Drain pipe	mm	OD Φ32			OD Φ32	
Operating temperature range		°C	Heating: -5 to 16; Cooling: 20 to 43; Fan only: 16 to 20				

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 semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

All specifications are measured at standard external static pressure.

CONTROL SOLUTIONS

CONTROLLER LINEUP

Wireless Remote Controllers	Wired Controllers	Centralized Controllers		Network Control System	BMS Gateways	Accessories
WL-12B-CM  Standard wireless remote for all non-ducted indoor units	WR-86KD-CM  Factory recommended thermostat	CRF-180B-CM 		5GNS-BAC-CM  **OR** CRF-270C-CM  + 4GNS-20-IF  = Intelligent Management System	5GNS-BAC-CM 	Hotel Key Card Interface Module 
WL-12F-CM 	WR-120G-CM 	CRF-270C-CM 			NW-LON-CM-A 	Infrared Sensor Controller  CA-IS
		CRF-210A-CM 			NW-MOD-CM-A 	Diagnosis software  VRF-DIAG-B
		CRF-15B-CM 			 NW-KNXA-CM	XYE Extension Kit  CA-EK

Wireless Remote Controllers

Features

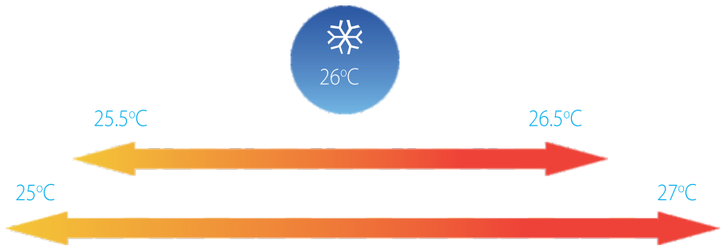
Model	 WL-12B-CM	 WL-12F-CM
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5℃ or 1℃ steps)	● (0.5℃ or 1℃ steps)
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Address setting	●	●
Follow me	–	●
Eco mode	●	●
Night silent mode	●	●
Display shut-off	●	●
Daily timer	●	●
Keyboard lock	●	●
Background light	●	●
Dimensions (H×W×D) (mm)	150×65×20	170×48×20
Batteries		
louver independent control	–	●

● With this function

– Without this function

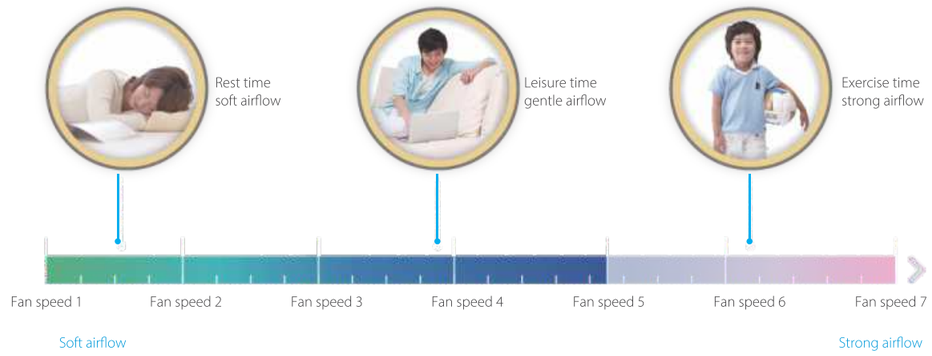
Temperature Setting

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



7-Speed Fan Control

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

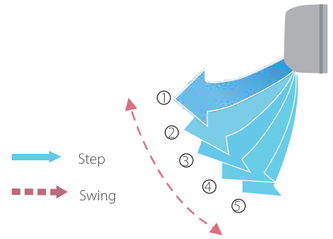


Dispaly Shut-off

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

5-step Swing Louver

The air is comfortably spread upwards and downwards thanks to the 5-step swing louver that can be programmed via the controller.



Follow Me

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

Eco Mode

Eco mode saves energy whilst retaining a comfortable indoor environment.

Wired Controllers

Features

Model	 WR-86KD-CM	 WR-120G-CM
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
Dual temperature set points	●	●
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Address setting	●	●
Follow me	●	●
Eco mode	●	●
Room temperature display	●	●
°F/°C display	●	●
Keyboard lock	–	●
Background light	●	●
Daily timer	●	●
Weekly schedule timer	–	●
Auto restart	●	●
2 permission levels	–	●
Bi-directional communication	●	●
Group control	–	●
Main or secondary controller setting	●	●
Display shut-off	●	●
Night silent mode	●	●
Remote signal receiver	●	●
Clean filter reminder	●	●
Extension function	–	●
Daylight saving time	–	●
Clock display	–	●
Dot matrix display	–	●
Error check function	●	●
System parameter querying	●	●
System setting control	●	●
Dimensions (WxHxD) (mm)	86x86x18	120x120x20
Power supply	18 DC	18 DC

● With this function

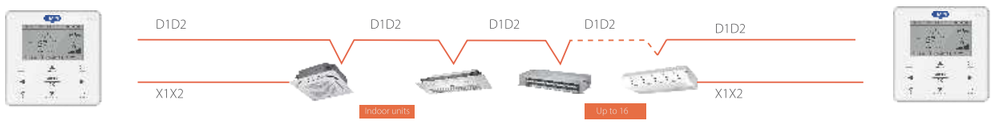
– Without this function

Group Control

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

Main or Secondary Controller Setting

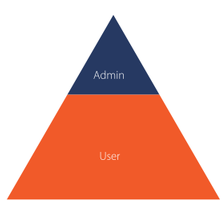
Two controllers can be used together, with the indoor units' operating mode and settings being set according to the most recent instruction received. The controller display screens are synchronized so that both displays update when a setting is adjusted.



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.

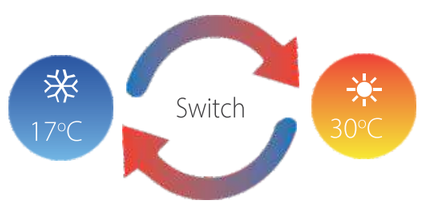


Extension Function

The extension function is specifically designed for users working overtime. Pressing the delay button postpones system shutdown by 1 or 2 hours.

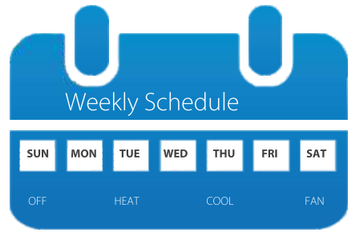
Dual Temperature Set Points

With dual temperature set point control, the set temperature changes automatically when the operating mode is changed.



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 addtion, settings including static pressure, cold draft prevention and temperature compensation can be configured on the wired controller.

Centralized Controllers

Features

Function	 CRF-180B-CM	 CRF-210A-CM	 CRF-270C-CM
Max. number of indoor units	64	64	384
Max. number of refrigerant systems	8	8	48
Touch screen	● (6.2-inch)	● (7.0-inch)	● (10.1-inch)
On/Off	●	●	●
Mode selection	●	●	●
Temperature setting	● (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	●	●	●
Extension function	●	×	×
Indoor unit type/model recognition	●*		
Indoor unit with capacity larger than 16kW recognition	●*		
HRV Control	●	●	●
Visual schematic	×	×	●
Energy management	●	●	●
Group management	●	●	●
Error check function	●	●	●*
System parameter querying	●	●	●
USB output	●	●	●
Report display	Error report	Error report	Error report and operation record
Operation log	×	×	●
LAN access	×	×	●
Language supported	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean		
Dimensions (W×H×D) (mm)	182×123×34	174x111x26	270×183×27
Power supply	12V DC	12V DC	24V AC
Outdoor unit series or indoor unit series	All series		

Note:
●: equipped as standard; ×: without this function
*means this function is only available for VX, Vxi, VC Pro, X Power, X Power i, Side discharge (10-12HP)

Touch Screen

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

Electricity Charge Distribution

The controllers estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equitably divided among building occupants.

Energy Management

User can set limits or locks on an indoor unit, such as minimum cooling temperature, maximum heating temperature, fan speed, operation mode, swing lock, remote controller lock and wired controller lock.

Visual Schematic

By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.

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.

Unit Model Recognition

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

Schedule Management

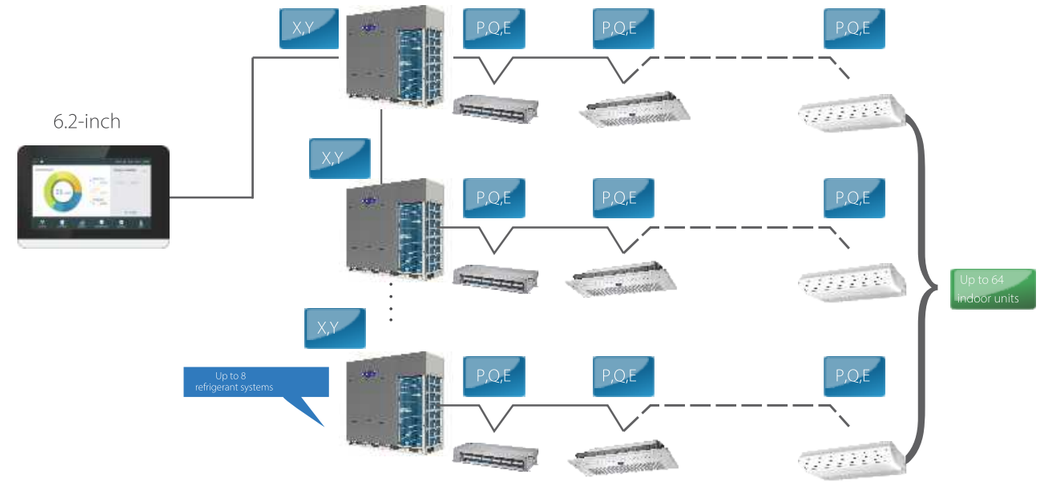
Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.

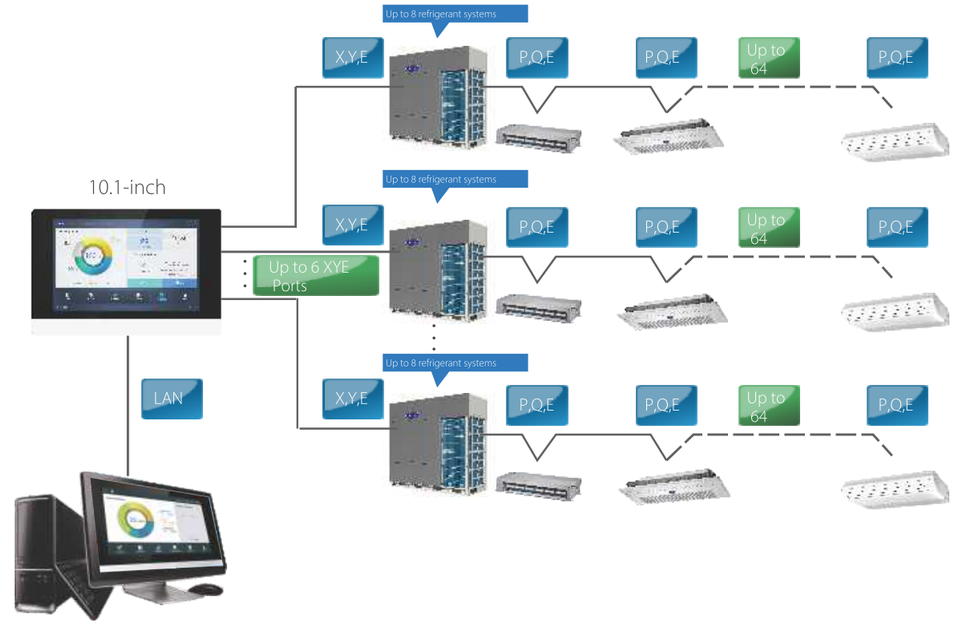
LAN Access

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

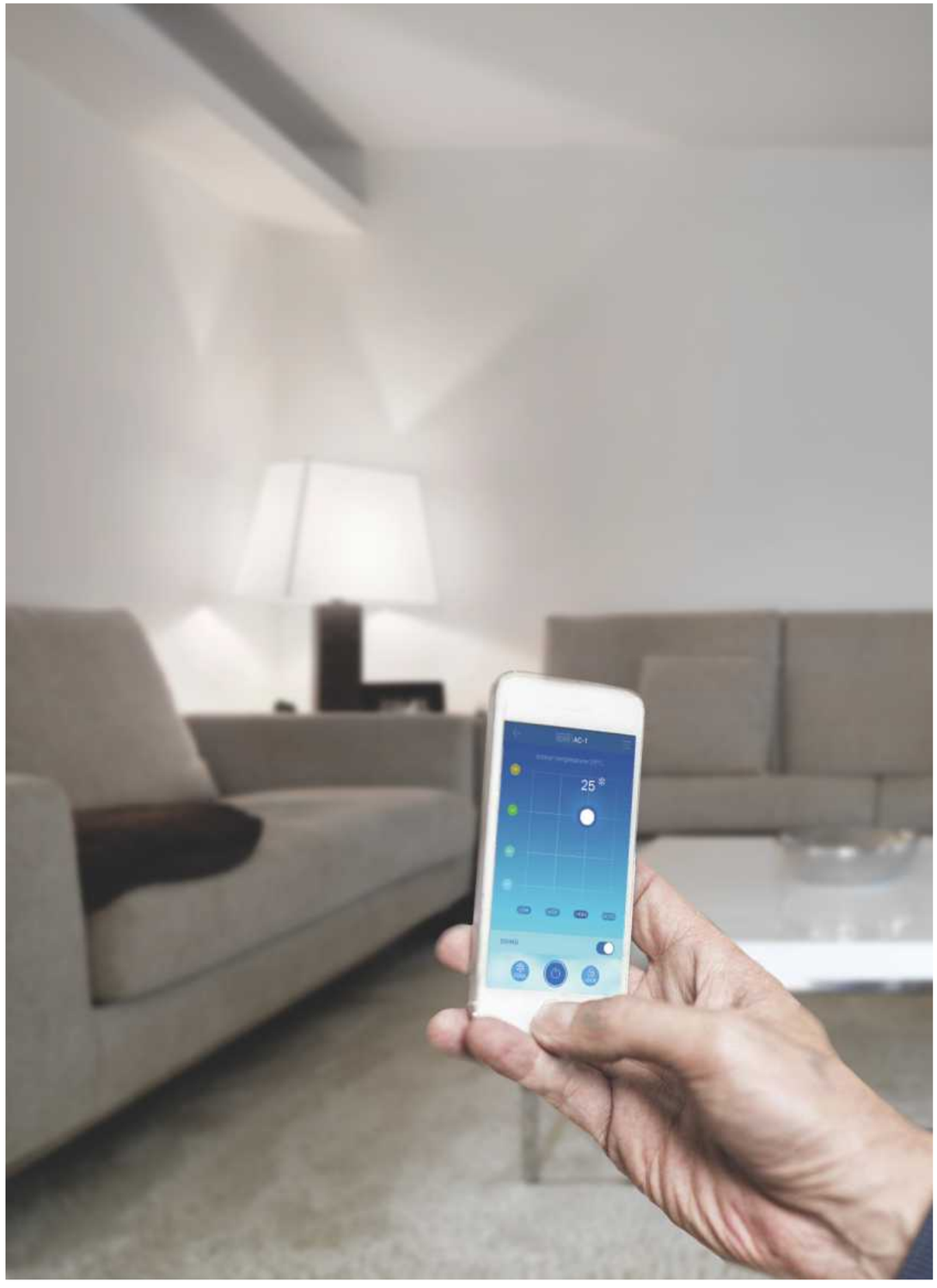
Wiring Flexibility

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





Data Converter



Features

Hardware model	 CIF-15B-CM	
Application scenarios	 Mobile Phone Application	 Cloud Server Website
Max. number of CCM-15 for one mobile APP	10	10
Max. number of indoor units	640	640
Max. number of refrigerant systems	80	80
On/Off	●	●
Mode selection	●	●
Temperature setting	● (1℃ steps)	● (1℃ steps)
7-speed fan control	—	—
Auto swing	●	●
5-step swing louver	—	—
Room temperature display	●	●
℃/℉ display	●	●
Weekly timer	●	●
Indoor unit type recognition	—	—
Energy management	●	●
Group management	●	●
User group management	●	●
Operation log	●	●
Device log	●	●
Login record	●	●
Error log	—	●
Configuration	●	—
Account registration	●	—
Virtual	●	—
Mode display	●	●
Languages supported	English, French, Spanish	English, French, Spanish
Dimensions (W×H×D) (mm)	187×115×28	
Power supply	1 phase, 100-240V, 50/60Hz	

● With this function

— Without this function

High Compatibility

Compatible with a variety of operating systems.

User Friendly Interface

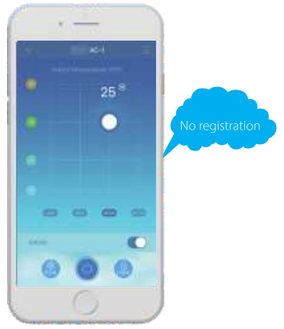
Clear, stylish interface designed by leading industrial designers.

Cloud Server Website

In addition to "M-control", users can control air conditioners and query the status of air conditioning equipment anytime and anywhere through the cloud server website.

Virtual Experience

After downloading "M-control", you can experience the operation of the interface through the virtual experience function without registration.



Easy Configuration

User groups can be joined simply by scanning a QR code.

Convenient Operation

Drag the position of the floating bubbles to change temperature and fan speed.

Anytime Control

Remote access to CIF-15A-CM allows anytime, anywhere control.

Clear Icons

Clear, color-coded icons allow unit operating states to be viewed at a glance.

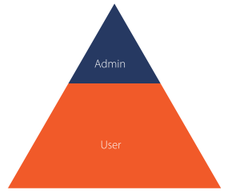
HEAT FAN COOL OFF

Group Management

The user can group the air conditioners equipment, and the air conditioner in the same group can be controlled together just with one tap.

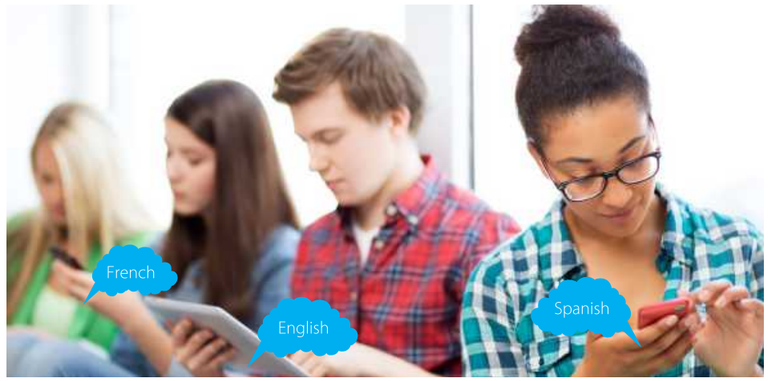
2 Permission Levels

Administrators can set different permissions for different users to facilitate better management of devices.



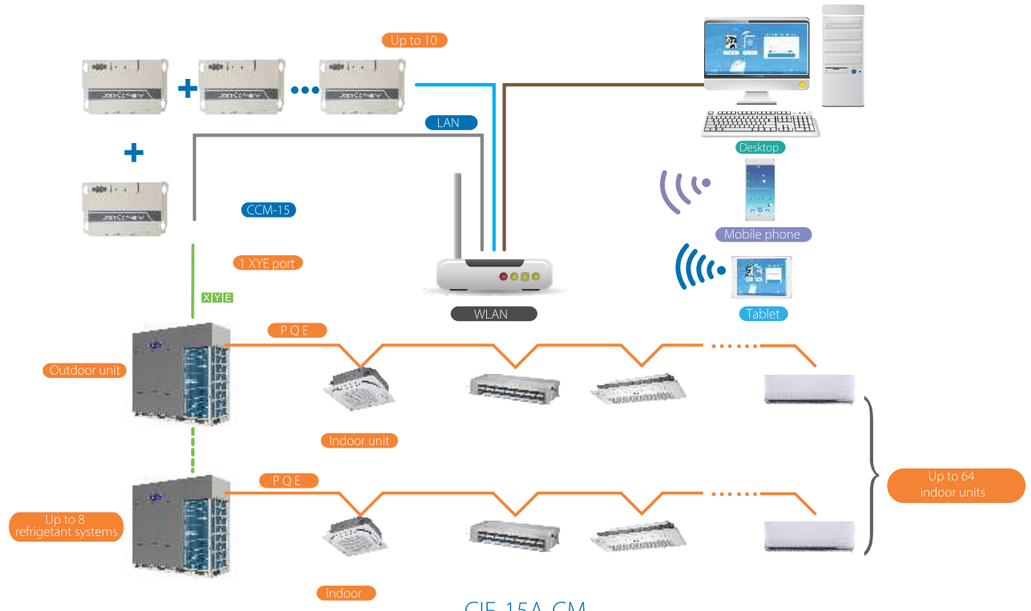
Multiple Language Options

Supports multiple languages so that users of different languages can operate easily.



Flexibility

The Data Converter can be connected directly to a network of indoor/outdoor units.



CIF-15A-CM

Network Control System

Features

Software model	IMMPRO	
Hardware model	 5GNS-BAC-CM	 CRF-270C-CM
Max. number per software system	10	10
Max. number of indoor units	2560	3840
Max. number of refrigerant systems	320	480
Temperature setting	● (0.5℃ steps)	● (0.5℃ steps)
7-speed fan control*	●	●
Auto swing	●	●
5-step swing louver	●	●
Outdoor unit Eco mode setting	●	●
Holiday setting	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Unit model recognition	●	●
Electricity charge distribution	●	●
Visual schematic	●	●
Energy management	●	●
Group management	●	●
Error check function	●	●
System parameter querying	●	●
Report output	●	●
Operation log	●	●
LAN access	●	●
Languages supported	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean	
Dimensions (W×H×D) (mm)	251×319×61	270×183×27
Power supply	1 phase, 100-240V, 50/60Hz	24V AC

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

User-friendly Interface

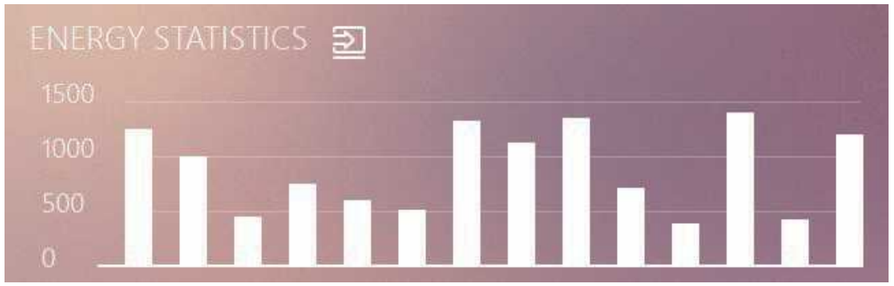
Simple, practical user interface makes for a user-friendly experience even for first-time users.

Outdoor Unit Configuration

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

Electricity Charge Distribution

The IMMPRO uses the Calculation Method to estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equitably divided among building occupants.



Public and Idle Devices

Marking a unit as a public device or idle device ensures the electricity charge distribution is more accurate and reasonable.

Visual Schematic

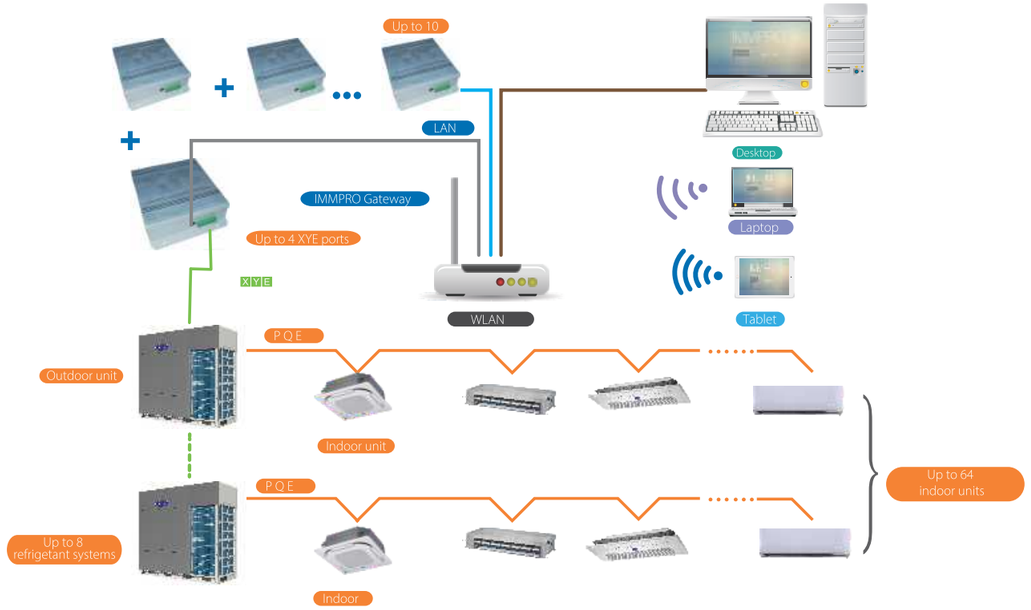
By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.

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.

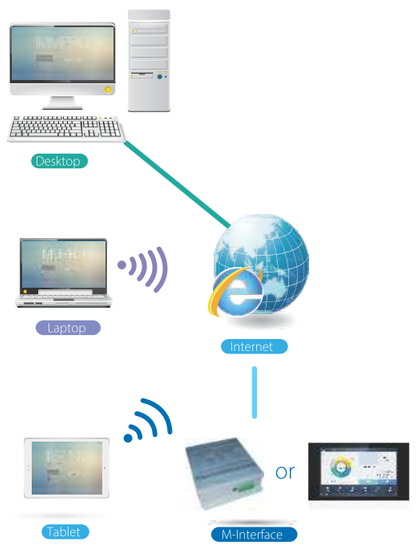
Xpress Installation

With the Xpress Installation wizard, IMMPRO can be installed quickly and easily without requiring support from a technical support engineer.

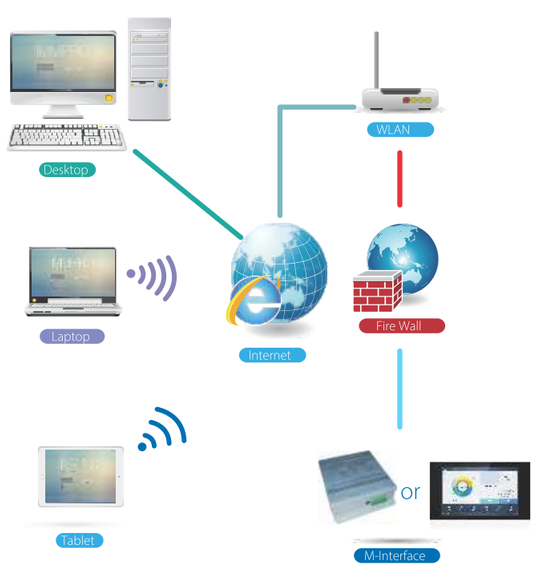


4GNS-BAC-CM

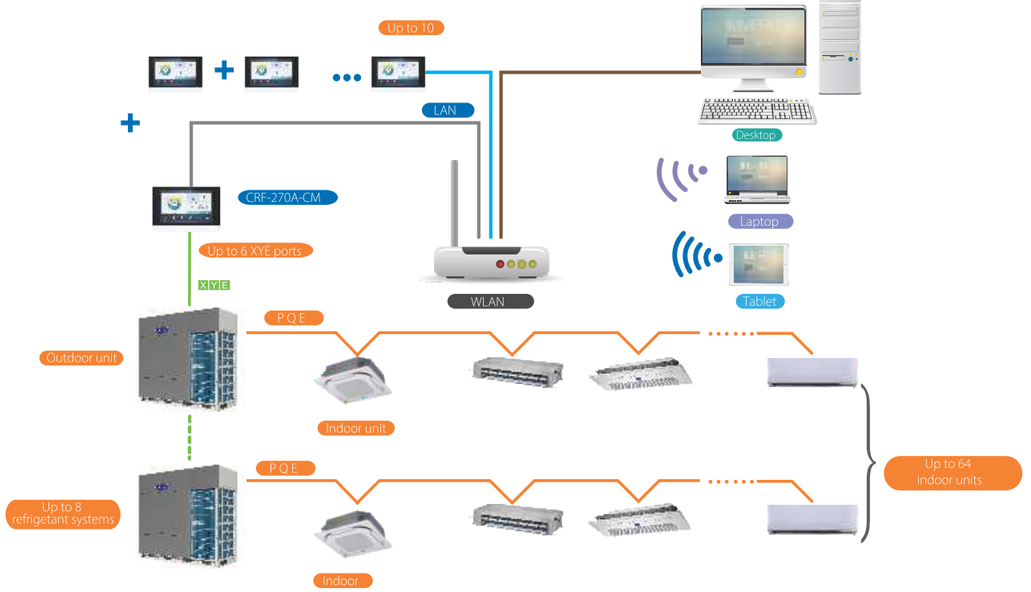
Network Flexibility



LAN access



Remote VPN access



CRF-270B-CM

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

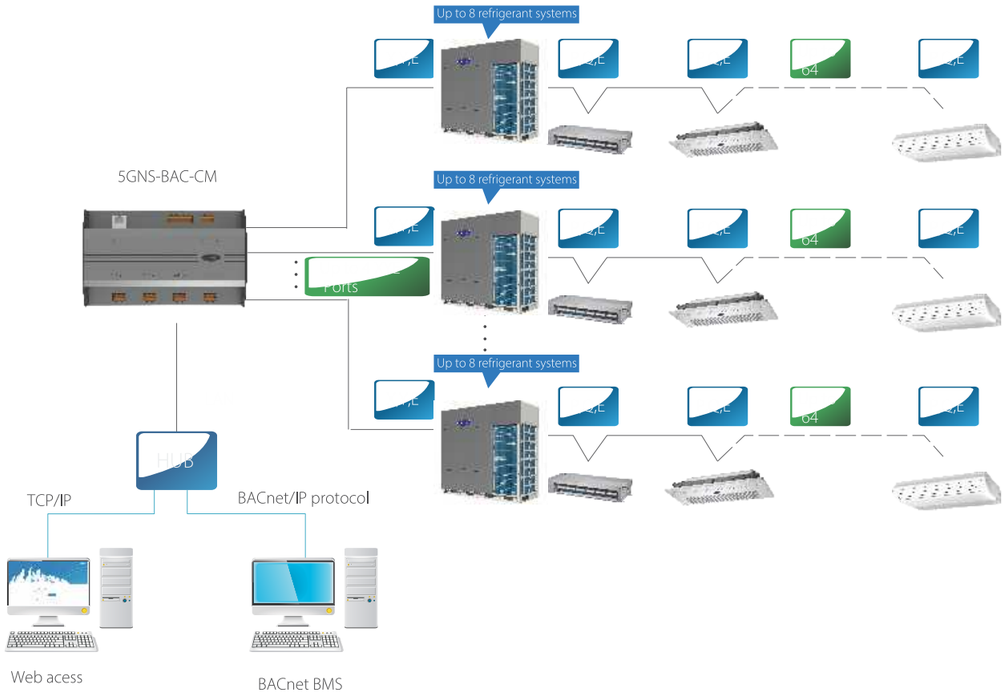
5GNS-BAC-CM

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
Max. number of indoor units		256
Max. number of outdoor units		128
Max. number of refrigerant systems		32
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	●
	Compressor operating frequency	●
	Discharge temperature	●
	System pressure	●
	Error status	●
	Error alarms	●
LAN access		●
BTL certification		●
Compatibility	Siemens	APOGEE
	Trane	TRACER
	Honeywell	ALERTON
	Schneider	Andover Continuum
	Johnson Controls	METASYS
Dimensions (HxWxD)(mm)		116x190x67
Power supply		24V AC 50/60Hz

● With this function

▬ Without this function

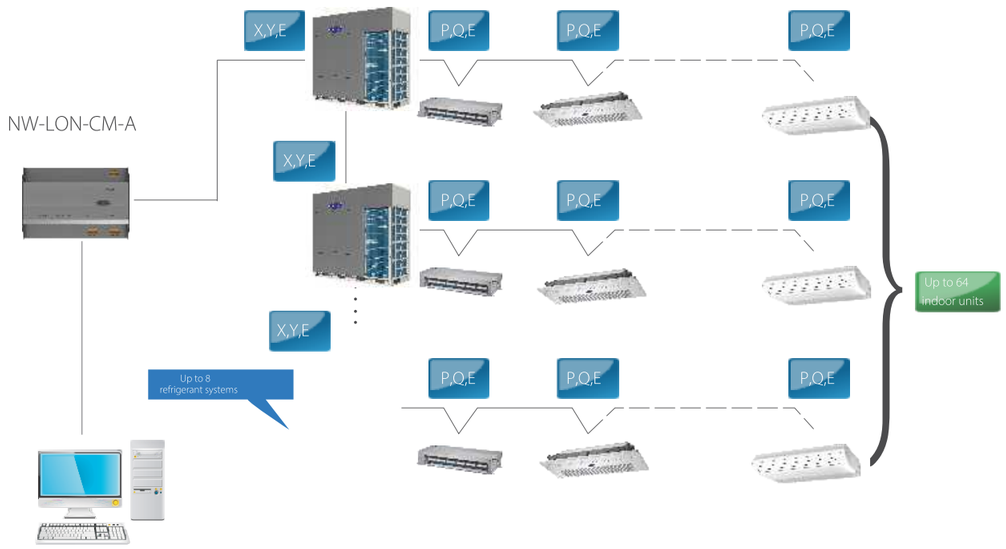
NW-LON-CM-A

LonWorks® Gateway

Full Integration

The NW-LON-CM Gateway allows Carrier VRF systems to be monitored and controlled alongside other building management technology on the LonWorks platform such as security, fire safety and lighting systems.

Network Flexibility



Features

Model		NW-LON-CM-A
Max. number of indoor units		32
Max. number of refrigerant systems		8
Control	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Group shut down	●
	On / Off	●
Indoor unit monitoring	Operating mode	●
	Set temperature	●
	Fan speed	●
	Online status	●
	Operating status	●
	Room temperature	●
	Error status	●
Outdoor unit monitoring	Error status	●
Dimensions (HxWxD)(mm)		116x170x67
Power supply		24V AC 50/60Hz

● With this function

▬ Without this function

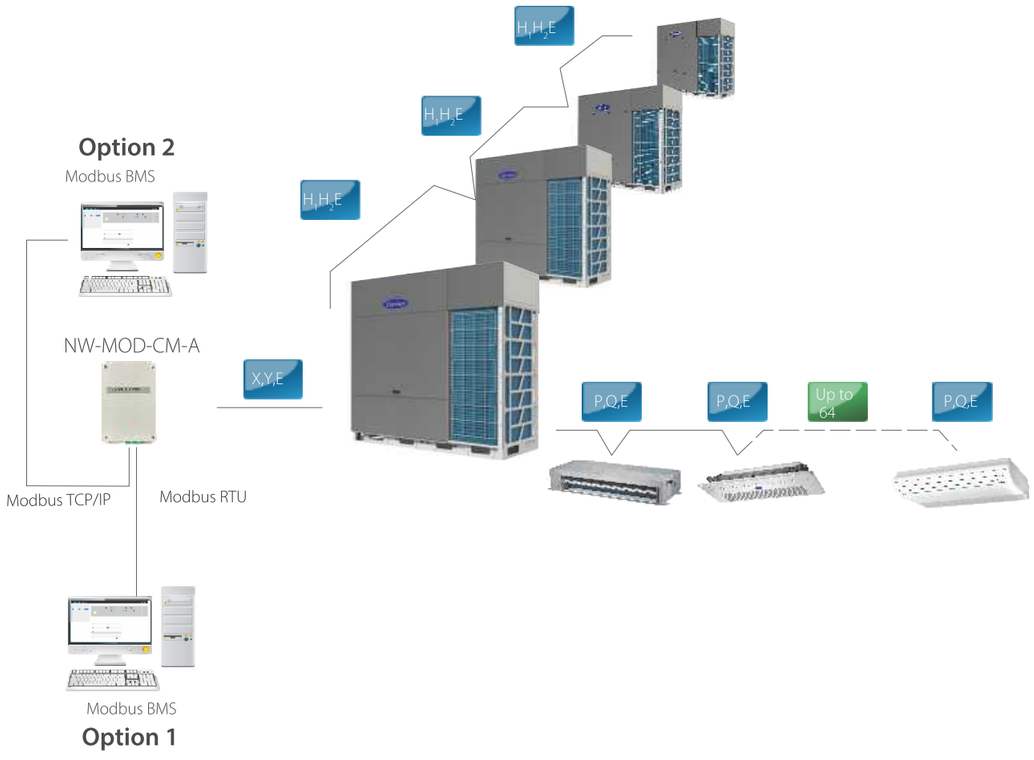
NW-MOD-CM-A

Modbus® Gateway

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
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	●
	Lock status	●
	Fan speed	●
	Set temperature	●
	Outdoor ambient temperature	●
	Error status	●
LAN access		●
Dimensions (HxWxD)(mm)		225x128x28
Power supply		12V DC

● With this function

▬ Without this function

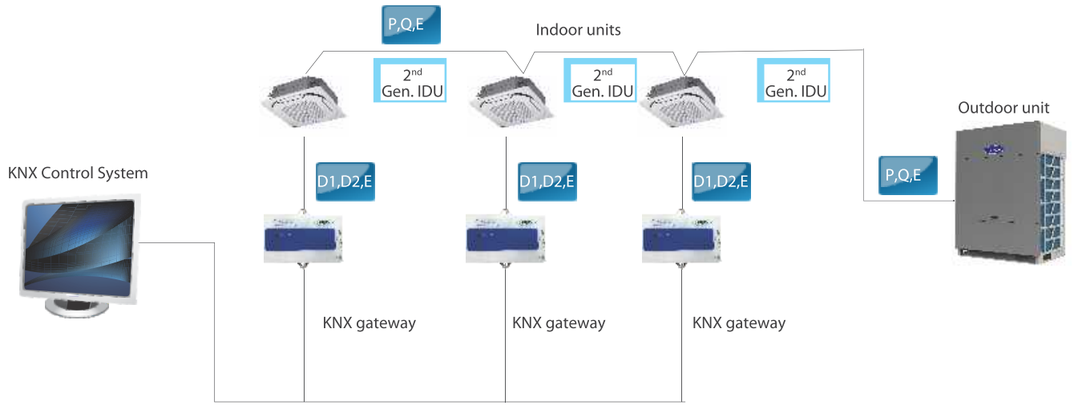
KNX Gateway

Full Integration

The KNX Gateway enables full integration of Carrier VRF systems with home and building management systems built on the KNX network communications protocol. KNX is the only global standard for housing and building control, and has been adopted by 70% of Europe's smart home market.

Network Flexibility

The gateway can be connected to indoor units' XYE or D1D2E ports directly.



Features

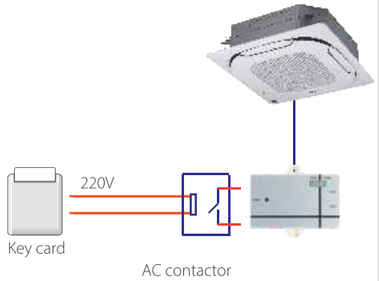
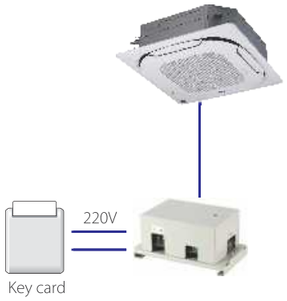
Model		NW-KNXA-CM
Max. number of indoor units		1
Control	On / Off	●
	Mode selection	●
	Temperature setting	● (1°C steps)
	7-speed fan control	● (3-speed)
	Swing	●
Monitoring	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Swing	●
	Room temperature	●
	Error alarm	●
Dimensions (HxWxD)(mm)		85×51×16
Power supply		29VDC (KNX bus supply)
Indoor unit series		2nd generation DC IDU

Hotel Key Card Interface Modules

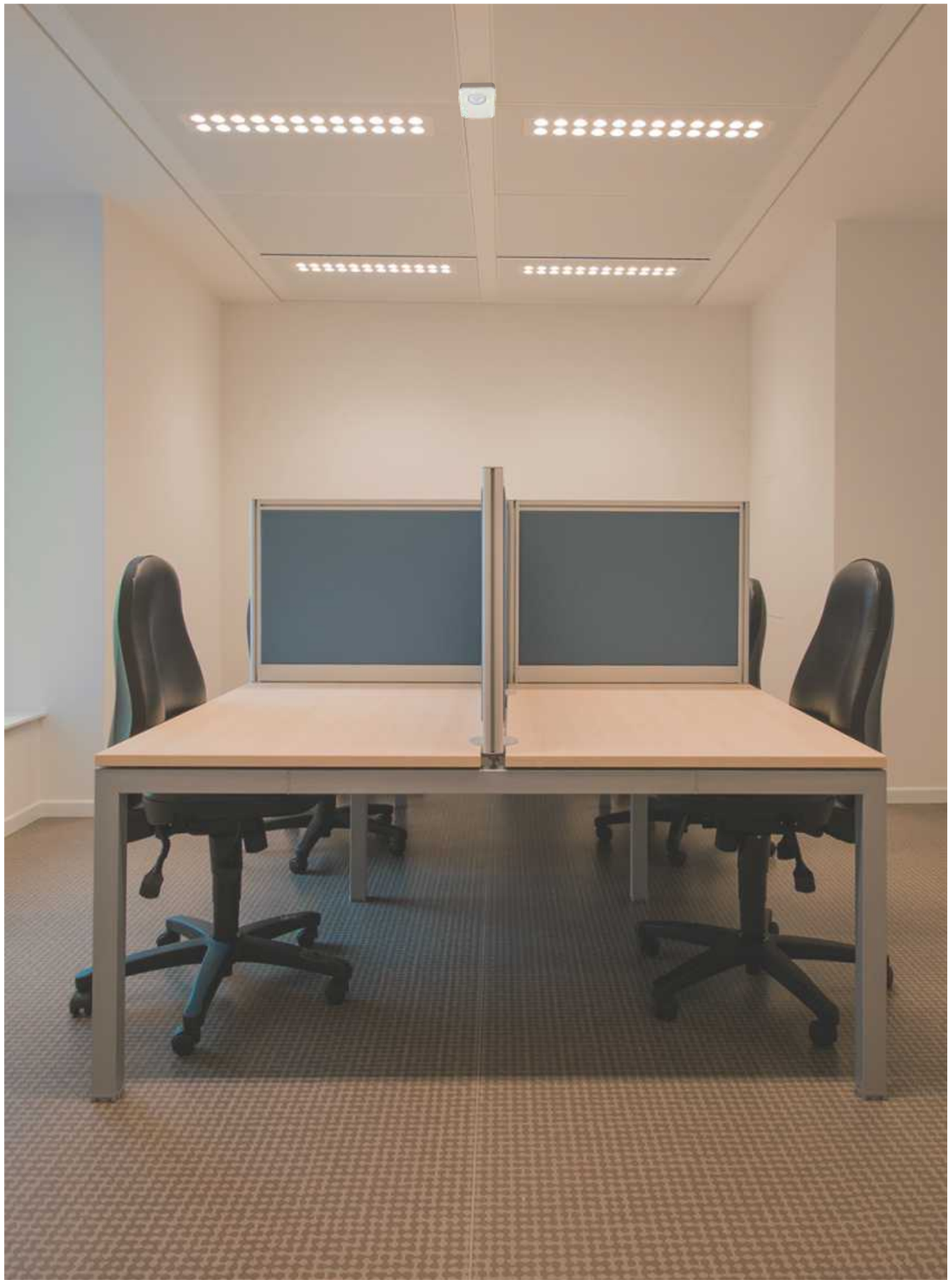
Full Integration

The Hotel Key Card Interface Modules enable power supply to indoor units to be integrated with hotel key card power supply management systems, which are designed to save energy by only running appliances whilst guests are present in their room.

Features

Model	CA-HKCW	CA-HKCS
Appearance		
Network flexibility		
Auto restart	●	●
Compatiblity	Remote and wired controller	Remote and wired controller
Dimensions (HxWxD) (mm)	15.5x86x72.8	87x150x70
Power supply	5V DC (Supplied by indoor unit)	5V DC (Supplied by indoor unit)

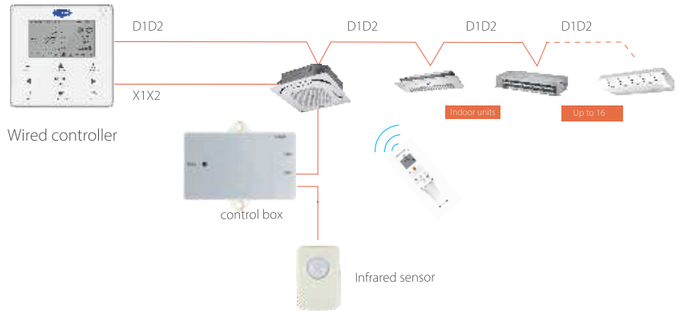
Infrared Sensor Controller



Full Integration

Using infrared sensors to detect movement, the CA-NIM09 Infrared Sensor Controller automatically turns indoor units on or off upon sensing that the room is occupied or unoccupied. Suitable for hotels, offices, conference rooms and residences, the Infrared Sensor Controller ensures climate control whilst minimizing energy consumption.

Features

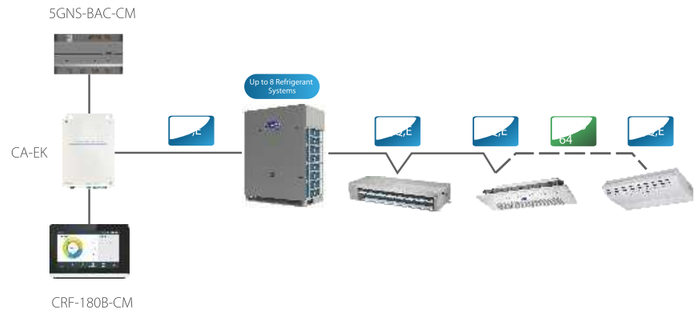
Model	CA-IS
Appearance	
Network flexibility	
Dimensions (HxWxD)(mm)	Sensor 46x30x25.6, Control box 86x72.8x15.5
Power supply	5V DC (Supplied by indoor unit)

XYE Extension Kit

Simple Design

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

Features

Model	 CA-EK
Max. number of refrigerant systems	8
Wiring flexibility	
Dimensions (H×W×D)(mm)	128X225X28
Power supply	12V DC
Outdoor unit series	all series*

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-00D
0.8-3HP

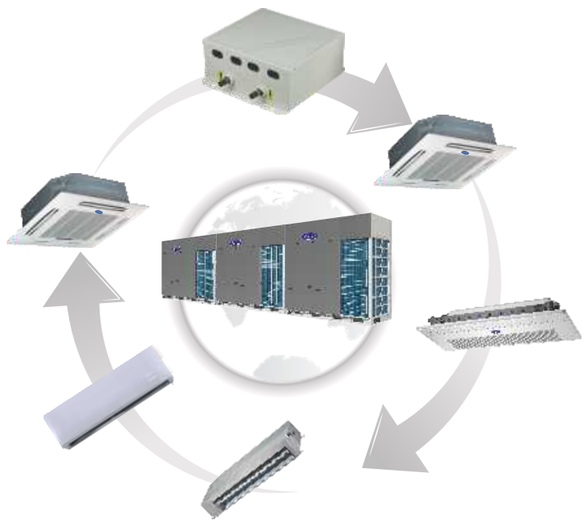
AHUKZ-01D
3.2-6HP

AHUKZ-02D
8-12HP

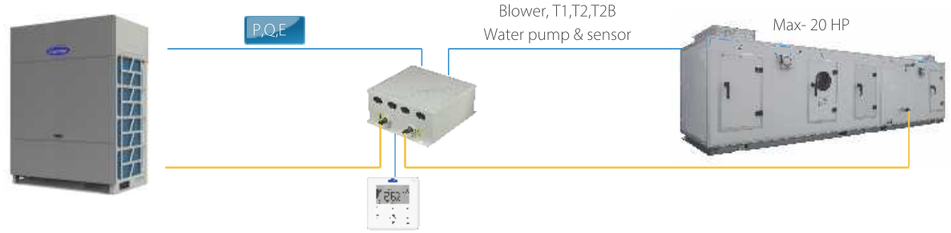
AHUKZ-03D
14-20HP

Compatible with All VRF Systems

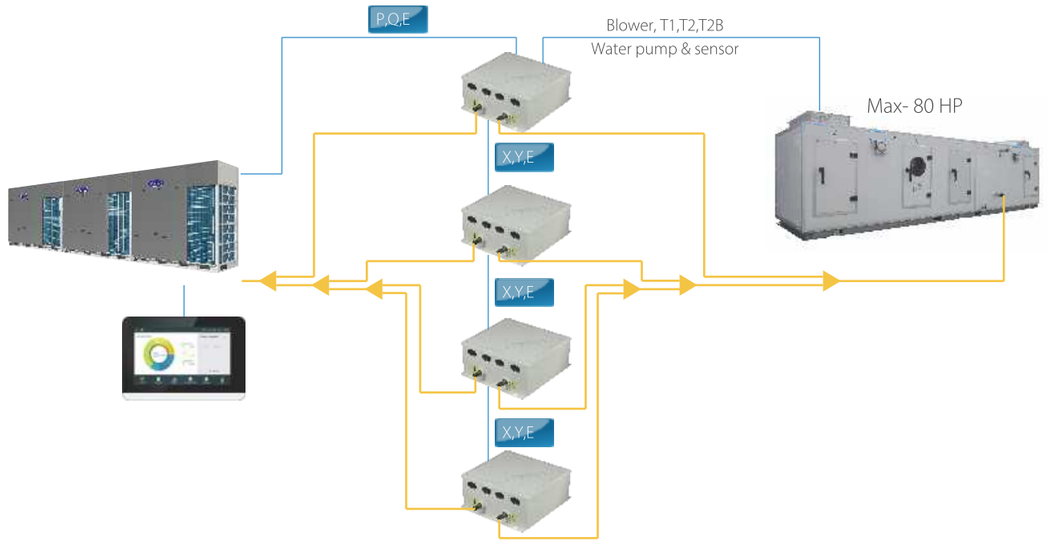
AHU kits are compatible with all Carrier VRF outdoor units and can be used together with all types of Carrier VRF indoor units.



Single AHU Control Box Connection



Multi AHU Control Boxes Connection



Specifications

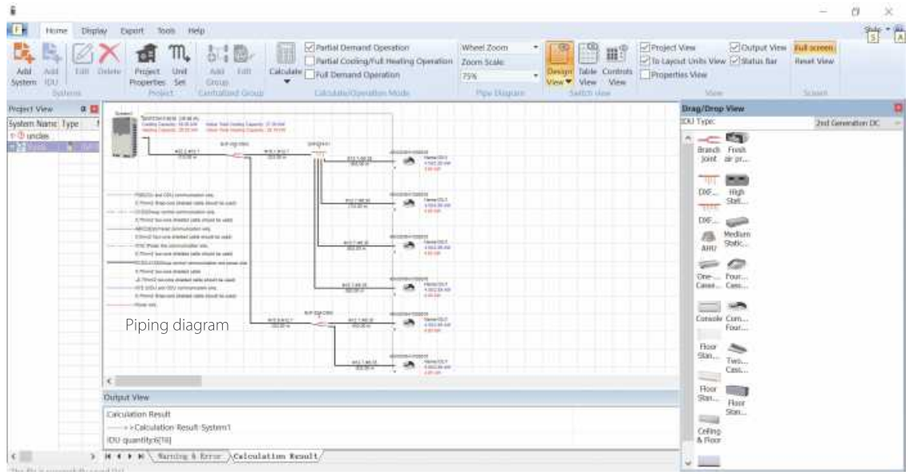
Model name	AHUKZ-00D	AHUKZ-01D	AHUKZ-02D	AHUKZ-03D	AHUKZ-04D	AHUKZ-05D
Capacity A (kW)	2.2≤A<9	9≤A≤20	20<A≤36	36<A≤56	56<A≤112	112<A≤170
Power supply	220-240V~50/60Hz					
Liquid pipe (in/out) (mm)	Φ9.53/Φ9.53	Φ9.53/Φ9.53	Φ12.7/Φ12.7	Φ15.9/Φ15.9	Φ15.9/Φ15.9*2	Φ15.9/Φ15.9*3
Dimension (WxHxD) (mm)	341x133x395				645x153x360	
Weight (kg)	5.7	5.7	5.8	6.0	12/16	14/18
Operation range (cooling on coil) (oC)	17-43					
Operation range (heating on coil) (oC)	10-30					
Applicable outdoor units	Heat pump / heat recovery / cooling only					

Selection Software"CSSP"

High Efficiency

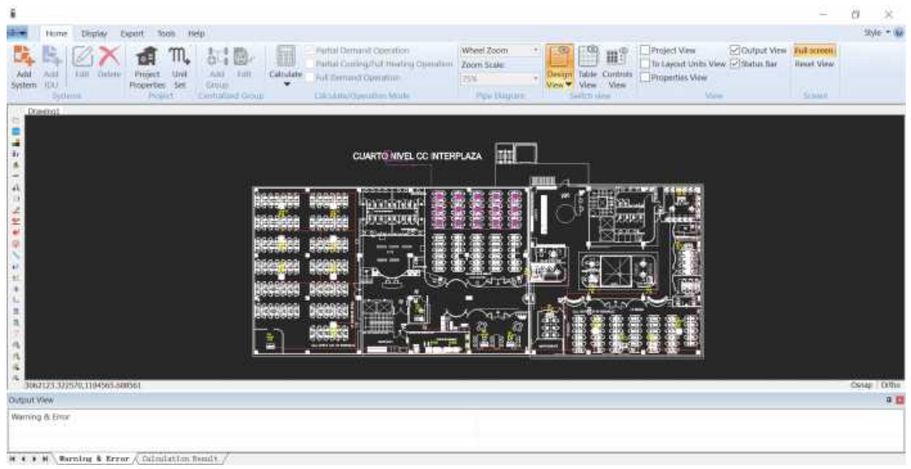
Carrier's advanced design automation tool can be used by designers, consultants and distributors to greatly reduce the time and effort that must be devoted to the selection process. The software provides quick and convenient selectable options for users, supports multiple languages, and greatly improves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

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



Piping diagram

CAD View



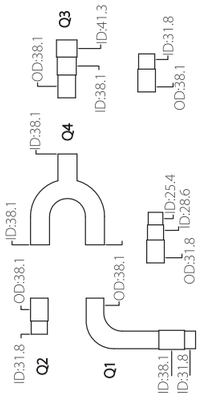
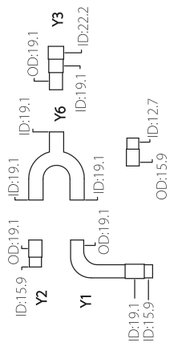
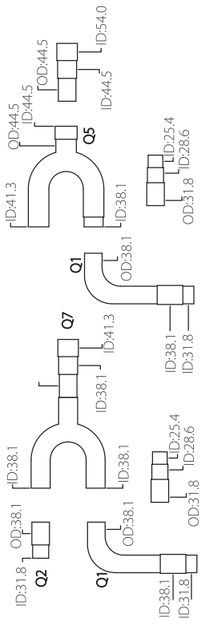
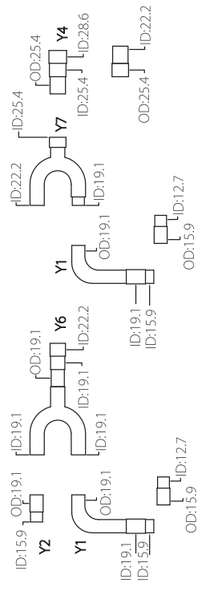
Branch Pipe

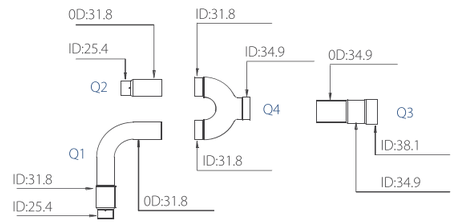
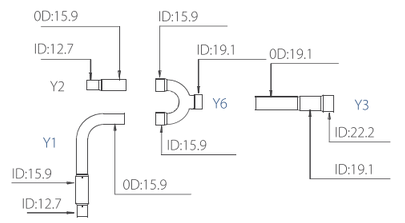
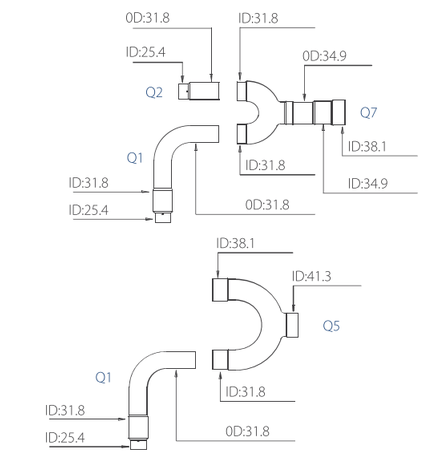
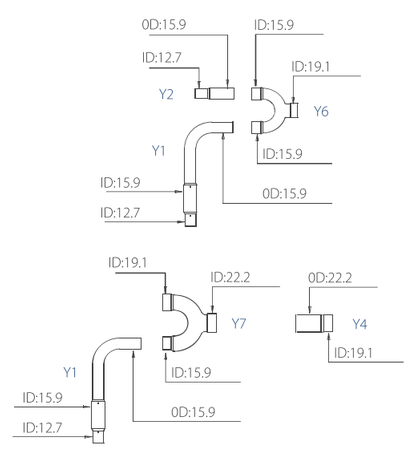
Model	Appearance	Model name	Packing Size (mm)	Gross Weight (kg)	Description
VX/VXi Series		BJC-02E-CM(i)	255×150×185	2.0	Connecting two outdoor units
		BJC-03E-CM(i)	345×160×285	4.3	Connecting three outdoor units

A*:The total capacity of indoor units which is connected to this branch joint

Dimensions

Outdoor Branch Joints

Model	Gas side joints	Liquid side joints
BJC-02E-CM(i)		
BJC-03E-CM(i)		

Model	Gas side joints	Liquid side joints
BJC-02-CM(i)		
BJC-03-CM(i)		
BJC-04-CM(i)