

















Corporate & Registered Office: Carrier Airconditioning & Refrigeration Ltd, Kherki Daula Post, Narsingpur, Gurgaon 122004, Tel: 0124-4825500 Sales Offices:— Ahmedabad: 079-44820400/401 Ghaziabad: 0120-4183260 Bangalore: 080-43442000 Bhubaneswar: 9778030033 Chandigarh: 0172-5007549/50 Chennai: 044-66448888 Cochin: 0484-4029000/001, Coimbatore: 7397444250 Daryaganj: 011-23244491, 9810973264 Delhi/NCR: 0124-4873200 Goa: 9987868667 Guwahati: 9831079624 Hyderabad: 040-4181 2222 Indore: 0731-2445200 Jaipur: 0141-4921737 / 738 Kolkata: 033-40592000/3000 Lucknow: 0522-4158701/704 Navi Mumbai/Thane: 9167788252 Mumbai: 022-61700700 Nagpur: 9881714903 Patna: 7070621177 Pune: 020-48571000 Raipur: 9752542882 Surat: 7433920332

CIN: U74999HR1992FLC036104/ Website: www.carrierindia.com / E-mail: customersupport@carrier.com



CARRIER SERVICE HELPLINE 1800 3000 3545 1800 1021 421



Products Lineup

VX Series



VXi Series



VC Pro Series

6 "									32
Capacity Range									90
									307.4
Appearar	nce				Amer		-	100	

Side Discharge Series



CONTENTS



- >>> 03 VX/VXi Series
- >>> 19 VC Pro Series
- >> 29 Side Discharge Series
- 37 2nd Generation VRF Indoor Units
- >> 67 Control Solutions
- >>> 97 BMS Gateway
- >> 116 Branch Pipe
- >> 117 Dimensions



VX Series **Heat Pump VRF**

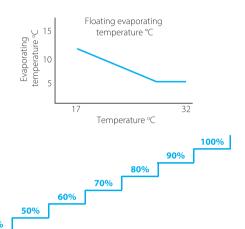
3 Unique Innovations

Energy Management System (EMS)

• Floating refrigerant temperature to balance comfort and efficiency The evaporating temperature (in cooling) and condensing temperature (in heating) are automatically adjusted according to both indoor and outdoor temperature to maximize the comfort and energy efficiency.

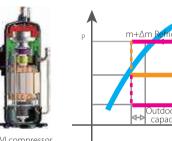
Output limitation during electricity supply restrictions With the integration of EMS, for projects with temporary electricity supply

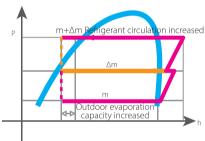
• restrictions, X/Xi Series can be set to output 40-100% capacity.



Enhanced Vapor Injection (EVI) Compressor

Thanks to the vapor injection DC inverter compressor, the VX VRF can run heating mode stably down to -23°C, and the heating capacity can be improved greatly.





Triple Configurations

Triple (local/remote/network) configurations greatly simplified installation, commissioning and servicing.

- Field local configuration achieves quick and easy on-site settings, simplifies installation and commissioning.
- System checking and settings also can be easily achieved via wired and centralized controller, making the configuration more flexible and convenient.
- A desktop or laptop PC can be used for browser-based access to achieve system configurations through IMM Pro gateway via a LAN connection.

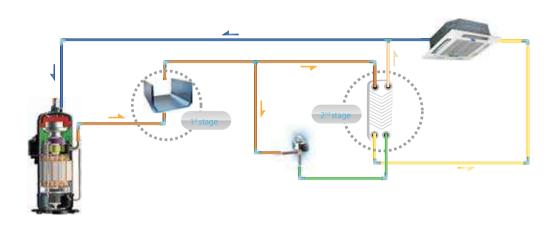




High Efficiency

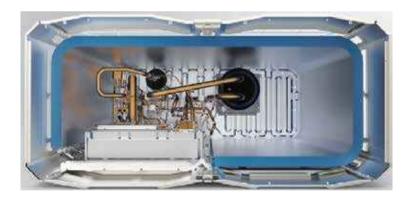
Plate Heat Exchanger (PHE) Subcooling

Plate Heat Exchanger as a secondary intercooler boosts up refrigerant subcooling and improves 10% energy efficiency.

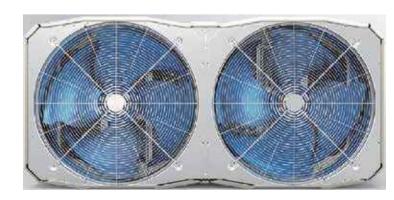


High Efficiency G-Type Heat Exchanger

26-34HP units use a high efficiency 3-row G-type heat exchanger with a heat exchange area 1.5 times that of the 24HP unit. The 26-34HP units also use super big size fan which diameter is up to 750mm.



3-rows G-type heat exchanger



Super big size fan

Wide Application Range

Wide Capacity Range

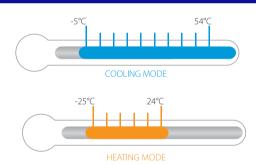
Starting at 8HP, capacity increases in 2HP increments up to 102HP, which is the world's largest single-system VRF capacity.



26/28/30/32/34HP (with dual fans)

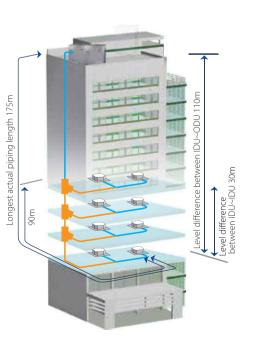
Wide Operation Range

The VX VRF can operate stably in a wide ambient temperature range: from -5°C to 54°C in cooling mode and from -25°C to 24°C in heating mode.



Long Piping Capability

- Total piping length: 1000m
- Longest piping length actual (equivalent): 175m (200m)
- Longest piping length after first branch: 90m
- Level difference between IDUs and ODU ODU above (below): 90m (110m)
- Level difference between IDUs: 30m





High Reliability

Duty Cycling

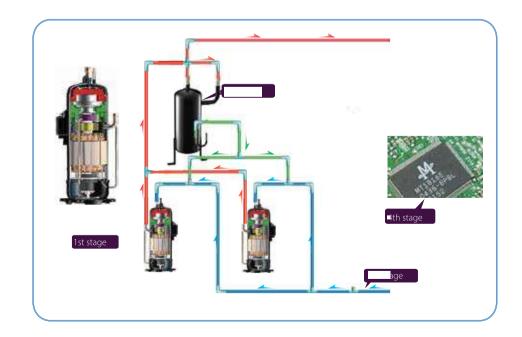
Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.



Precise Oil Control Technology

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

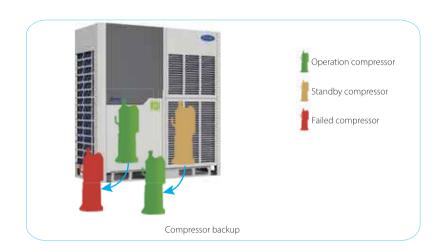
- Compressor internal oil separation.
- High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.
- Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
- Auto oil return program monitors the running time and system status to ensure reliable oil return.



High Reliability

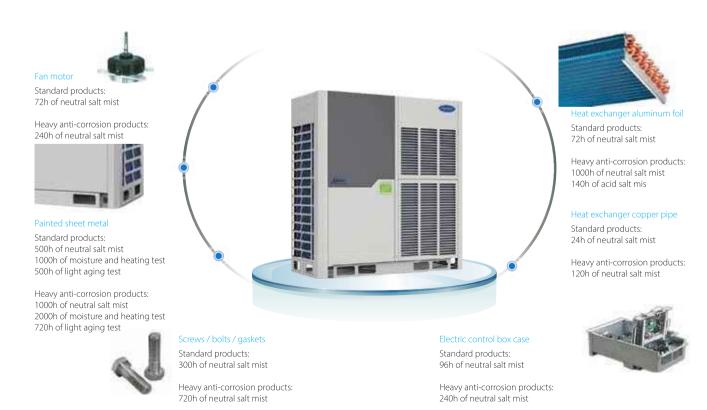
Backup Operation

In units with two compressors, if one compressor fails, the other compressor can run on its own for up to 4 days, allowing time for maintenance or repair whilst maintaining comfort.



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.





High Reliability

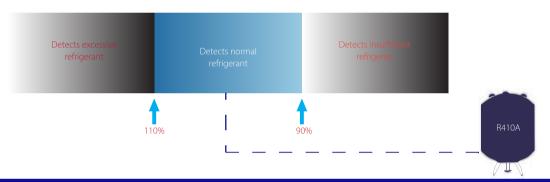
Refrigerant Cooling PCB

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



Real-time Refrigerant Amount Monitoring

The temperature and pressure of refrigerant can be real-time monitored by the outdoor unit. When the level of refrigerant is too low or too high, this can cause damage to the unit and poor performance. The VX outdoor unit can detect excessive or insufficient amounts of refrigerant, to ensure consistent performance.



Auto Snow-blowing Function*

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

*This function is available as a customization option.



Dust-clean function*

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

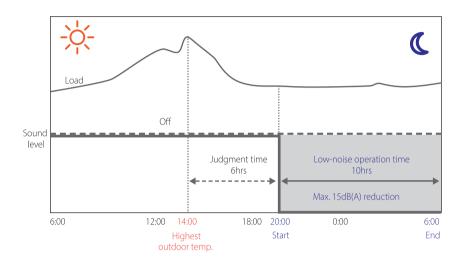
*This function is available as a customization option.



Enhanced Comfort

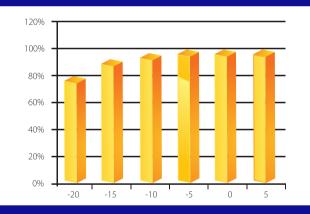
Night Silent Mode

The night silent mode feature, which is easily configured on the outdoor unit's PCB, includes various scheduling options that can be used to reduce noise levels at times when low noise operation is required.



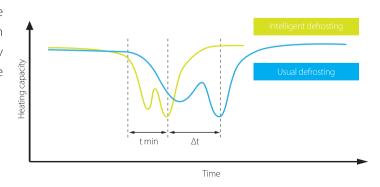
Enhanced Heating Capacity

Heating capacity is 100% of rated capacity at ambient temperatures as low as -5°C and 90% of rated capacity at -15°C.



Intelligent Defrosting Technology

The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized defrosting valve reduces time required for defrosting to as little at four minutes.



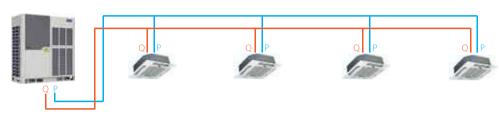


Easy Installation and Service

Non-polarized Communication Wiring*

Only one chain of 2-core non-polarized shielded communication wiring required for indoor and outdoor unit communication.

*In installations where relatively strong electromagnetic fields are present, 3-core shielded wiring should be used in order to prevent interference.



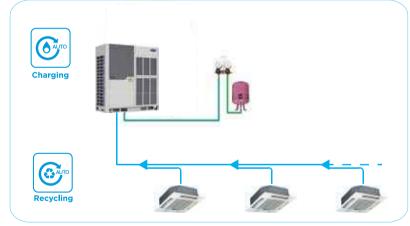
Auto Addressing

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

Automatic Refrigerant Charging/Recycling Function*

Automatic refrigerant charging and recycling make installation and service easier and more efficient.

*This function is available as a customization option.



Optional Multifunctional PCB

An optional multifunctional small PCB can be installed on the unit's side columns, enabling installation and service engineers to activate Auto-commissioning or check the operating status without removing the front panel. It can also perform automatic data backup of the last 30 minutes' operating record.





Specifications (VX Series)



Capacity		HP	8	10	12	14						
Model			38VF008H11901X	38VF010H11901X	38VF012H11901X	38VF014H11901X						
Power supply		V/Ph/Hz	380-415/3/50									
G 1: 1	Canacity	kW	25.2	28.0	33.5	40.0						
Cooling ¹	Capacity	kBtu/h	86.0	95.5	114.3	136.5						
	Capacity	kW	27	31.5	37.5	45						
Heating ²	Capacity	kBtu/h	92.1	107.5	128.0	153.5						
Connectable Indoor Unit	Max. quantity		13	16	20	23						
Compressors	Туре			DC in	verter							
Compressors	Quantity				1							
Fa ata	Туре			C)C							
Fan motors	Quantity				1							
Refrigerant	Туре		R410A									
nemgerani	Factory charge	e kg		11		13						
Pipe	Liquid pipe	mm	Ф1	2.7	Ф15.9	Ф15.9						
connections ³	Gas pipe	mm	Ф2	25.4	Ф28.6	Ф31.8						
Airflow rate		m³/h		11000		13000						
Sound pressure	e level ⁴	dB(A)	5	58	6	0						
Net dimension:	s (WxHxD)	mm		990x16	35x790							
Net weight		kg		22	27							
Ambient temp.	Cooling	°C		-5 t	to 54							
operating rang	e Heating	°C		-25	to 24							



	HP	16	18	20	22				
		38VF016H11901X	38VF018H11901X	38VF020H11901X	38VF022H11901X				
	V/Ph/Hz	380-415/3/50							
Capacity	kW	45.0	50.0	56.0	61.5				
Capacity	kBtu/h	153.5	170.6	191.1	209.8				
Capacity	kW	50	56	63	69				
Сараспу	kBtu/h	170.6	191.1	215.0	235.4				
Max. quantity		26	29	33	36				
Туре			DC in	verter					
Quantity			1	2	2				
Туре		DC							
Quantity			1	4	2				
Туре			R4°	10A					
Factory charge	kg	1	3	1	7				
Liquid pipe	mm	Ф15.9		Ф19.1					
Gas pipe	mm	Ф31.8		Ф31.8					
	m³/h	130	000	170	000				
level ⁴	dB(A)	60	61	6	3				
dimensions (WxHxD) mm			1340×16	1635×825					
	kg	30)4	3	48				
Cooling	°C	-5 to 54							
Heating	°C		-25	to 24					
	Type Quantity Type Quantity Type Quantity Type Factory charge Liquid pipe Gas pipe level ⁴ (WXHXD)	Capacity Capacity Capacity KBtu/h KBtu/h KBtu/h Max. quantity Type Quantity Type Quantity Type Quantity Type Guantity Type Factory charge kg Liquid pipe mm Gas pipe mm	SavF016H11901X V/Ph/Hz	SAME SAME	V/Ph/Hz				

Notes:

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



Specifications (VX Series)



Capacity		HP	24	26	28
Model			38VF024H11901X	38VF026H11901X	38VF028H11901X
Power supply		V/Ph/Hz		380-415/3/50	
C 1: 1	Capacity	kW	67.0	73.0	78.5
Cooling ¹	Capacity	kBtu/h	228.6	249.1	267.8
11 (1 3	Canacity	kW	75	81.5	87.5
Heating ²	Capacity	kBtu/h	255.9	278.1	298.6
Connectable Indoor Unit	Max. quantity		39	43	46
Compressors	Туре			DC inverter	
Compressors	Quantity			2	
Fan motors	Туре			DC	
ran motors	Quantity			2	
Refrigerant	Туре			R410A	
nemgerani	Factory charge	kg	17		22
Pipe	Liquid pipe	mm	Ф19.1	Φ	22.2
connections ³	Gas pipe	mm	Ф31.8	Φ	31.8
Airflow rate		m ³ /h	17000	2:	5000
Sound pressure	level ⁴	dB(A)	63		64
Net dimensions	(WxHxD)	mm	1340x1635x825	1730 ×	1830 × 825
Net weight		kg	348	4	430
Ambient temp.	Cooling	%		-5 to 54	
operating range	Heating	°C		-25 to 24	



Capacity		HP	30	32	34					
Model			38VF030H11901X	38VF032H11901X	38VF034H11901X					
Power supply		V/Ph/Hz	380-415/3/50							
c 11 1	Canacitus	kW	85.0	90.0	95.0					
Cooling ¹	Capacity	kBtu/h	290.0	307.1	324.1					
	Capacity	kW	95	100	106					
Heating ²	Capacity	kBtu/h	324.1	341.2	361.7					
Connectable Indoor Unit	Max. quantity		50	53	56					
Compressors	Туре			DC inverter						
Compressors	Quantity		2							
an motors	Туре			DC						
-an motors	Quantity			2						
Refrigerant	Туре		R410A							
reiligelant	Factory charge	kg	22	2	25					
Pipe	Liquid pipe	mm		Ф22.2						
connections ³	Gas pipe	mm		Ф38.1						
Airflow rate		m ³ /h	25000	24	000					
Sound pressure	level4	dB(A)		64						
Net dimensions	sions (WxHxD) mm		1730×1830×825							
Net weight	et weight kg		430 475							
Ambient temp.	Cooling	%		-5 to 54						
operating range	Heating	%		-25 to 24						

- 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

 3. Diameters given are those of the unit's stop valves.
- 4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

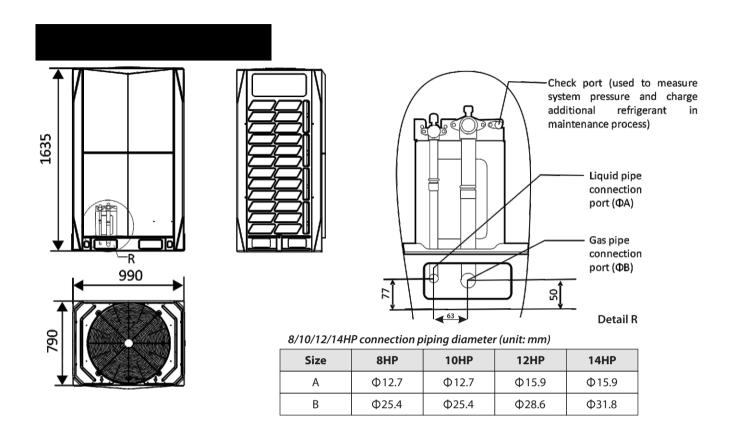
Recommended combination table

System cap	oacity	Number							Mod	lules ¹						
kW	HP	of units	8HP	10HP	12HP	14HP	16HP	18HP		22HP	24HP	26HP	28HP	30HP	32HP	34HP
25.2	8	1	0.11	10111	12111		10111	10111	20111			20111	20111	30111	32111	
28.0	10	1		•												
33.5	12	1			•											
40.0	14	1				•										
45.5	16	1					•									
50.0	18	1						•								
56.0	20	1							•							
61.5	22	1								•						
67.0	24	1									•					
73.0	26	1									•	_				
												•				
78.5	28	1											•			
85.0	30	1	_											•		
90.0	32	1													•	
95.0	34	1														•
100.5	36	2			•						•					
107.0	38	2				•					•					
112.0	40	2					•				•					
117.0	42	2						•			•					
123.0	44	2								••						
128.5	46	2								•	•					
134.0	48	2									••					
140.0	50	2									•	•				
145.5	52	2									•		•			
152.0	54	2									•			•		
157.0	56	2											• •			
163.5	58	2											•	•		
170.0	60	2												••		
175.0	62	2												•	•	
180.0	64	2												•		•
185.0	66	2													•	•
190.0	68	2														••
195.5	70	3			•						•					•
202.0	72	3				•					•					•
207.0	74	3					•				•					•
212.0	76	3						•			•					•
218.0	78	3								••						•
223.5	80	3								•	•					•
229.0	82	3									••					•
235.0	84	3									•	•				•
240.5	86	3									•		•			•
240.5	88	3									•			•		•
252.0	90	3											• •			•
258.5	90	3											•	•		•
265.0	92												_			•
		3												••	_	
270.0	96	3												•	•	•
275.0	98	3												•		• •
280.0	100	3													•	••
285.0	102	3														•••

Notes: Capacities are based on the following conditions: Cooling: Indoor temperature 27°C DB/19°C(66.2°F) WB; Outdoor temperature 35°C(95°F) DB/24°C(75.2°F) WB Heating: Indoor temperature 20°C(68°F) DB/15°C(59°F) WB; Outdoor temperature 7°C(44.6°F) DB/6°C(42.8°F) WB Piping length: Interconnecting piping length is 7.5m(24.6ft), level difference is zero. The above combination models are factory-recommended models

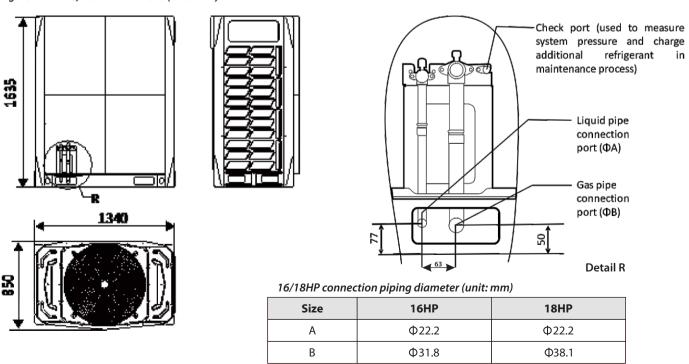


Dimensions (VX VRF 50/60Hz)



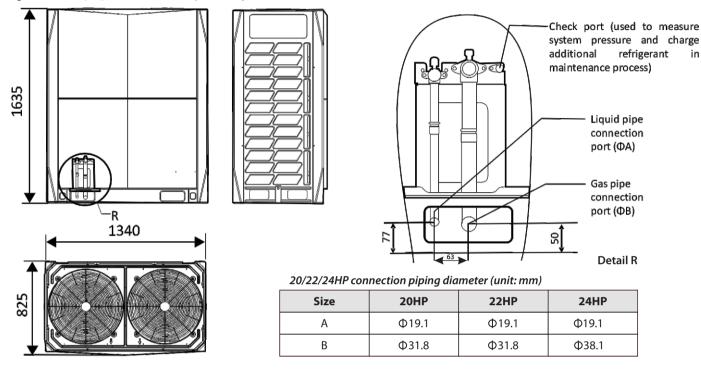
16/18HP

Figure 2-2.2: 16/18HP dimensions (unit: mm)



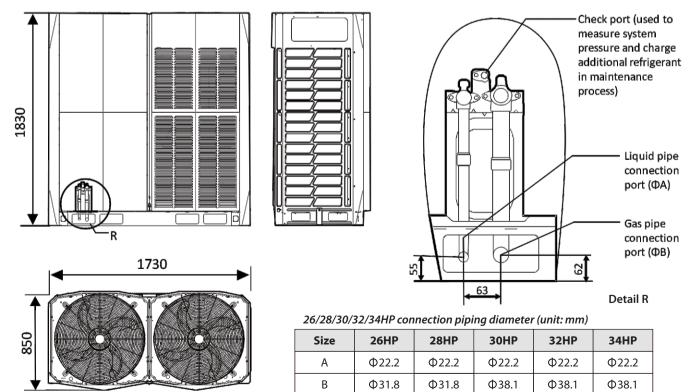
20/22/24HP

Figure 2-2.3: 20/22/24HP dimensions (unit: mm)



26/28/30/32/34HP

Figure 2-2.4: 26/28/30/32/34HP dimensions (unit: mm)





Specifications (VXi Series)



Capacity		HP		10	12				
Model			38VF008H1190Xi	38VF010H1190Xi	38VF012H1190Xi				
Power supply		V/Ph/Hz		380-415/3/50					
		kW	25.2	28	33.5				
Cooling ¹	Capacity	kBtu/h	86	95.5	114.3				
Heating ²	Capacity	kW	27	31.5	37.5				
Heating	Capacity	kBtu/h	92.1	107.5	128				
Connected indoor un	it Maximum qua	ntity	13	16	20				
Compressors	Type			DC inverter					
Complessors	Quantity			1					
	Type			DC					
Fan motors	Quantity			1					
Refrigerant	Type		R410A						
Memgerani	Factory charge	kg	11						
Pipe connections ³	Liquid pipe	mm	Ф	12.7	Ф15.9				
	Gas pipe	mm	Φ2	25.4	Ф28.6				
Airflow rate		m³/h		11000					
Sound pressure level		dB(A)	58	58	60				
Net dimensions (W×F	H×D)	mm		990×1635×790					
Net weight		kg		227					
Ambient temp.	Cooling	°C		-5 to 54					
operating range	Heating	°C		-25 to 24					



	HP	14	16	18				
		38VF014H1190Xi	38VF016H1190Xi	38VF018H1190Xi				
	V/Ph/Hz							
Canacity	kW	40	45	50				
Сарасиу	kBtu/h	136.5	153.5	170.6				
Capacity	kW	45	50	56				
Сарасиу	kBtu/h	153.5	170.6	191.1				
nit Maximum qu	uantity	23	26	29				
Туре			DC inverter					
Quantity		1						
Type			DC					
Quantity			1					
Type			R410A					
Factory char	ge kg	11		3				
Liquid pipe	mm	Ф1	5.9	Ф19.1				
Gas pipe	mm		Ф31.8					
	m³/h	11000	13	000				
4	dB(A)	6	0	61				
H×D)	mm	990x1635x790	1340x1	635x850				
	kg	227	2	77				
Cooling	°C		-5 to 54					
Heating	°C		-25 to 24					
	Type Quantity Type Quantity Type Quantity Type Factory chare Liquid pipe Gas pipe 4 HXD) Cooling	V/Ph/Hz KW KBtu/h Capacity KW KBtu/h KBtu/h Maximum quantity Type Quantity Type Quantity Type Quantity Type Factory charge kg Liquid pipe mm Gas pipe mm Gas pipe mm M³/h 4 dB(A) HXD) mm kg Cooling °C	SavF014H1190Xi W/Ph/Hz WW 40 WBtu/h 136.5 WW 45 WBtu/h 153.5 WBtu/h 153.5 WBtu/h 153.5 WBtu/h WBt	Section Se				

Specifications (VXi Series)



Capacity		HP	20	22
Model			38VF020H1190Xi	38VF022H1190Xi
Power supply		V/Ph/Hz	380-4	415/3/50
Cooling ¹	Capacity	kW	56	61.5
Cooling	Сараспу	kBtu/h	191.1	209.8
Heating ²	Capacity	kW	63	69
neating	Сараспу	kBtu/h	215	235.4
Connected indoor uni	it Maximum quan	tity	33	36
Compressors	Туре		DC	inverter
Combieszorz	Quantity		1	2
Fan motors	Туре			DC
ran motors	Quantity		1	2
Refrigerant	Туре		R	410A
nemgerani	Factory charge	kg	13	17
Pipe connections ³	Liquid pipe	mm	4	019.1
ripe connections	Gas pipe	mm	0	031.8
Airflow rate		m³/h	13000	17000
Sound pressure level ⁴		dB(A)	62	63
Net dimensions (W×F	I×D)	mm	1340x1635x850	1340x1635x825
Net weight		kg	295	344
Ambient temp.	Cooling	°C	-5	5 to 54
operating range	Heating	°C	-2	5 to 24



							A Line and the control	-			
Capacity		HP	24	26	28	30	32	34			
Model			38VF024H1190Xi	38VF026H1190Xi	38VF028H1190Xi	38VF030H1190Xi	38VF032H1190Xi	38VF034H1190Xi			
Power supply		V/Ph/Hz	380-415/3/50								
Cooling ¹	Capacity	kW	67	73	78.5	85	90	95			
Cooling	Сарасну	kBtu/h	228.6	249.1	267.8	290	307.1	324.1			
Heating ²	Capacity	kW	75	81.5	87.5	95	100	106			
rieating	Сарасну	kBtu/h	255.9	278.1	298.6	324.1	341.2	361.7			
Connected indoor uni	onnected indoor unit Maximum quantity		39	43	46	50	5	3			
Compressors	Туре		DC inverter								
Complessors	Quantity					2					
Fan motors	Туре)C					
ran motors	Quantity					2					
Refrigerant	Туре		R410A								
nemgerant	Factory charge	kg	17 22				25				
Pipe connections ³	Liquid pipe	mm	Ф19 Ф22.2								
ripe connections	Gas pipe	mm		Ф31.8			Ф38.1				
Airflow rate		m³/h	17000		25000		24	000			
Sound pressure level ⁴ dB(A)		63 64									
Net dimensions (W×H×D) mm		1340x1635x825 1730x1830x850									
Net weight kg		344 407 429 475									
Ambient temp.	Cooling	°C	-5 to 54								
operating range	Heating	°C			-25	to 24					

- 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

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

- 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

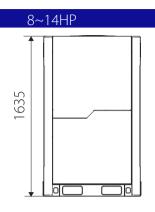
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- 3. Diameters given are those of the unit's stop valves.
- 4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a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

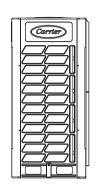


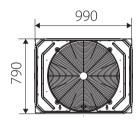
Dimensions

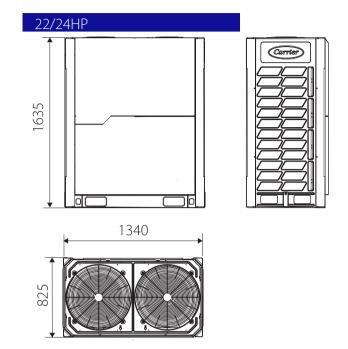
Body dimension

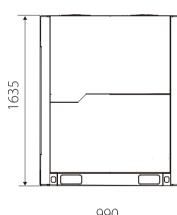
Unit: in.(mm)

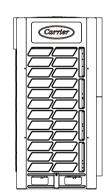


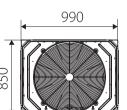


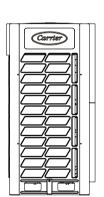




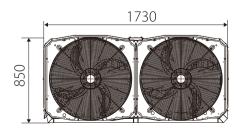








1830







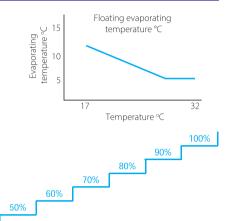
Energy saving

VC Pro Series Cooling Only VRF

XPOWER

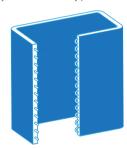
Energy Management System (EMS)

- Floating refrigerant temperature to balance comfort and efficiency The evaporating temperature is automatically adjusted according to both indoor and outdoor temperature to maximize the comfort and energy
- Output limitation during electricity supply restrictions With the integration of EMS, for projects with temporary electricity supply restrictions, CO VRF can be set to output 40-100% capacity.



4-side heat exchanger

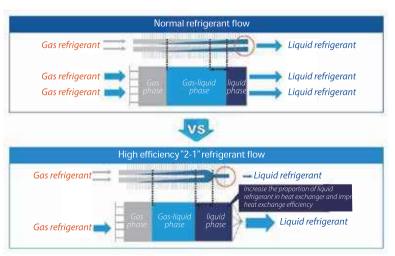
G-type heat exchangers have higher energy efficiency than the U-type.



2-rows G-type heat exchanger

High efficiency"2-1" refrigerant flow

The high efficiency "2-1" refrigerant flow increases the proportion of liquid refrigerant in heat exchanger and improve heat exchange efficiency.





Wide Application Range

Wide Capacity Range

For single unit, the footprint is small and maximum capacity is up to 32HP. For combined units, maximum three 32HP units can be combined with capacity up to 96HP.

8/10/12/14/16/18HP (with single fan) 20/22/24HP (with dual fans) 26/28/30/32HP (with dual fans)

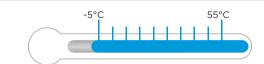






Wide Operation Rang

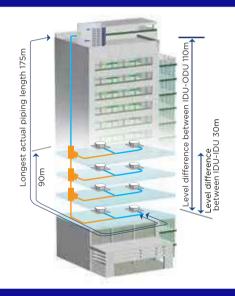
The CO VRF can operate stably in a wide ambient temperature range: from -5°C to 55°C in cooling mode.



Long Piping Capability

- Total piping length: 1000m
- Longest piping length-actual (equivalent): 175m(200m)
- Longest piping length after first branch: 40/90*m
- Level difference between IDUs and ODU-ODU above (below): 90m (110m)
- Level difference between IDUs: 30m

*The longest length after 1st branch is 40m as standard but can be extended up to 90m under certain conditions. Please contact your local Carrier dealer for further information



Selectable ESP of outdoor unit*

Selectable external static pressure of outdoor unit: 0Pa, 20Pa, 40Pa, 60 Pa which can meet most of installation requirements.

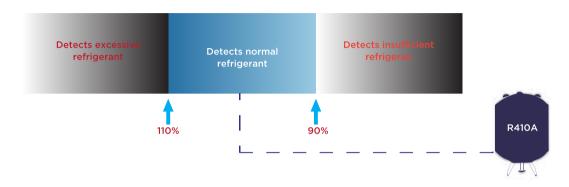
*This function is availiable as a customization option.



High Reliability

Real-time Refrigerant Amount Monitoring

The temperature and pressure of refrigerant can be real-time monitored by the outdoor unit. When the level of refrigerant is too low or too high, it can cause damage to the unit and poor performance. CO outdoor unit can detect excessive or insufficient amounts of refrigerant to ensure consistent performance.

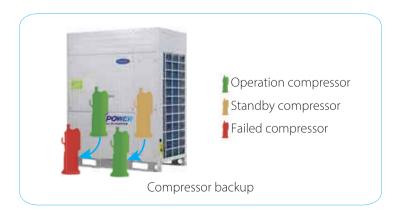


Duty Cycling

Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.



In units with two compressors, if one compressor fails, the other compressor can run on its own for up to 4 days, allowing time for maintenance or repair whilst maintaining comfort.



|24|



High Reliability

Refrigerant cooling PCB

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



Intelligent Configurations

Intelligent configurations greatly simplify installation, commissioning and servicing.

- Field local configuration achieves quick and easy on-site settings, simplifies installation and commissioning.
- System checking and settings also can be easily achieved via wired controller making the configuration more flexible and convenient.
- A desktop or laptop PC can be used for browser-based access to achieve system configurations through IMMPRO gateway via a LAN connection.



Automatic Refrigerant Charging

Automatic refrigerant charging makes installation and service easier and more efficient.

*This function is available as a customization option.







Dust-clean function*

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

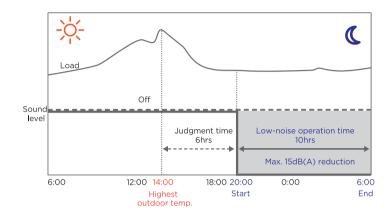
*This function is available as a customization option.



Enhanced Comfort

Optional silent modes

CO VRF has optional silent modes including night silent mode and non-night silent mode which provides more freedom and convenience to match the customers' needs. Different silent mode is achieved by setting up field settings or through the centralized controller.



Silent technology features

Several noise reducing components reduce the running noise of outdoor units.



Precise temperature control

CO outdoor unit uses multiple and high precision EXVs to create comfortable indoor environment. The EXV control precision is up to 3000-stage which can precisely control refrigerant flow and guarantee stable indoor temperature. In this way, temperature setting can be adjusted in 0.5°C step, enabling precise comfort control.





25



Specifications





HP				10	12			
Model name			38VF008H11901C	38VF010H11901C	38VF012H11901C			
Power supply		V/Ph/Hz	380-415V 3N~ 50Hz					
Cooling ¹	Capacity	kW	22.4	28.0	33.5			
Cooling	Capacity	kBtu/h	86.0	95.5	114.3			
Connected indoor unit	Maximum quantity		13	16	20			
Compressor	Туре			DC inverter				
Compressor	Quantity			1				
	Туре		DC					
Fan	Quantity		1					
	Airflow rate	m³/h	10400					
Defriegrant	Туре	<u>'</u>		R410A				
Refrigerant	Factory charge	kg		11				
Pipe	Liquid pipe	mm	Ф1.	2.7	Ф15.9			
connections ²	Gas pipe	mm	Ф2	5.4	Ф28.6			
Sound pressure level ³		dB(A)	5	8	60			
Net dimensions (W×H×[Net dimensions (W×H×D) mm		990x1635x990					
Net weight		kg	227					
Ambient temp.	Cooling	°C		-5 °C to 54 °C				



HP			14	16	18	20			
Model name			38VF014H11901C	38VF016H11901C	38VF018H11901C	38VF020H11901C			
Power supply		V/Ph/Hz	380-415V 3N~ 50Hz						
Cooling ¹	Capacity	kW	40.0	45.0	50.0	56.0			
Cooling	Сарасіту	kBtu/h	136.5	153.5	170.6	191.1			
Connected indoor unit Maximum quant			23	26	29	33			
Compressor	Туре			DC in	verter				
Compressor	Quantity			1		2			
	Туре		DC						
Fan	Quantity			1		2			
	Airflow rate	m³/h	10800	10800 11600					
D-f-i	Туре	<u> </u>	R410A						
Refrigerant	Factory charge	kg	8	1	1	13			
Pipe	Liquid pipe	mm		Ф15.9		Ф19.1			
connections ² Gas pipe		mm		Ф3	1.8				
Sound pressure level ³		dB(A)	6	0	61	62			
Net dimensions (W×H×D)		mm	960x1615x765			1250x1615x765			
Net weight		kg	188	97	278				
Ambient temp.	Cooling	°℃		-5 °C t	o 54 ℃				

- 1. T1 Cooling: Indoor temperature 27°CDB/19°C WB; Outdoor temperature 35°C DB/24°C WB;
- Piping length: Interconnecting piping length is 7.5m, level difference is zero. 2. Diameters given are those of the unit's accessories.
- 3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications





HP			22	24	26				
Model name			38VF022H11901C	38VF024H11901C	38VF026H11901C				
Power supply		V/Ph/Hz		380-415V 3N~ 50Hz					
Cooling ¹	Canacity	kW	61.5	67	73				
Cooling	Capacity	kBtu/h	210.0	228.8	249.3				
Connected indoor unit	Maximum quantity		36	39	43				
Compressor	Type Quantity			DC inverter					
Compressor	Quantity			2					
	Туре			DC					
Fan	Quantity			2					
	Airflow rate	m³/h	122	200	19600				
Deficement	Туре			R410A					
Refrigerant	Factory charge	kg	1:	3	19				
Pipe	Liquid pipe	mm	Ф1	9.1	Ф22.2				
connections ²	Gas pipe	mm		Ф31.8					
Sound pressure level ³		dB(A)	6	3	64				
Net dimensions (W×H×[0)	mm	1250×16	515×765	1585×1615×765				
Net weight		kg	27	78	319				
Ambient temp.	Cooling	°C		-5 °C to 55 °C					



					No. of the last of
HP			28	30	32
Model name			38VF028H11901C	38VF030H11901C	38VF032H11901C
Power supply		V/Ph/Hz		380-415V 3N~ 50Hz	
Cooling ¹	Capacity	kW	78.5	85	90
Cooling	Сарасіту	kBtu/h	268.1	290.3	307.4
Connected indoor unit	Maximum quantity	,	46	50	53
	Туре			DC inverter	
Compressor	Quantity			2	
	Туре			DC	
an	Quantity			2	
	Airflow rate	m₃/h	19600	20	0600
	Туре			R410A	
Refrigerant	Factory charge	kg		19	
Pipe	Liquid pipe	mm		Ф22.2	
connections ²	Gas pipe	mm	Ф31.8		Ф38.1
Sound pressure level ³		dB(A)	1	63	64
Net dimensions (W×H×D)		mm		1585×1615×765	
Net weight		kg		319	
Ambient temp.	Cooling	°C		-5 °C to 55 °C	

- Notes: 1. T1 Cooling: Indoor temperature 27°CDB/19°C WB; Outdoor temperature 35°C DB/24°C WB;
- Piping length: Interconnecting piping length is 7.5m, level difference is zero. 2. Diameters given are those of the unit's accessories.
- 3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

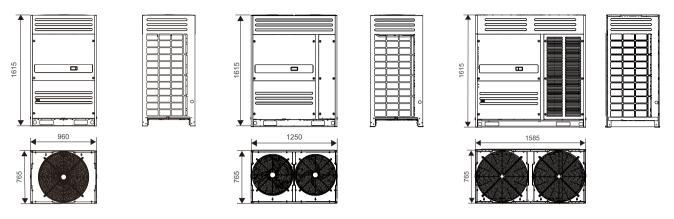


26/28/30/32HP

Outdoor unit combinations

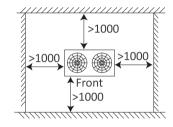
System cap	oacity	Number						Λ	Nodules	1					
kW	HP	of units	8HP	10HP	12HP	14HP	16HP		20HP		24HP	26HP	28HP	30HP	32HP
22.4	8	1	•												
28.0	10	1		•											
33.5	12	1			•										
40.0	14	1				•									
45.5	16	1					•								
50.0	18	1						•							
56.0	20	1							•						
61.5	22	1								•					
67.0	24	1									•				
73.0	26	1										•			
78.5	28	1	-										•		
85.0	30	1												•	
90.0	32	1													•
95.0	34	2					•	•							
100.0	36	2						••							
100.0	38	2					•			•					
111.5							•	_		•					
	40	2	-					•		•					
117.0	42	2	-					•			•	_			
123.0	44	2	-					•				•			
128.5	46	2	-					•					•		
135.0	48	2	-					•						•	
140.0	50	2	-					•							•
145.5	52	2	-								•		•		
152.0	54	2	-								•			•	
157.0	56	2	_								•				•
163.5	58	2	-										•	•	
170.0	60	2	-											••	
175.0	62	2												•	•
180.0	64	2													••
185.0	66	3						••						•	
190.0	68	3						••							•
196.5	70	3						•			•		•		
201.5	72	3						•		•					•
207.0	74	3						•			•				•
213.0	76	3						•				•			•
218.5	78	3						•					•		•
225.0	80	3						•						•	•
230.0	82	3						•							••
235.5	84	3									•		•		•
242.0	86	3									•			•	•
247.0	88	3									•				••
253.5	90	3											•	•	•
260.0	92	3												• •	•
265.0	94	3												•	••
270.0	96	3													•••

Dimensional Drawing (mm)



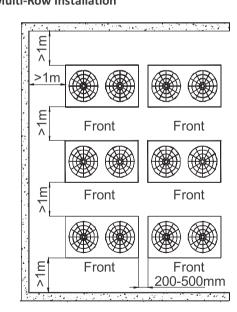
20/22/24HP

Single Unit installation (mm)

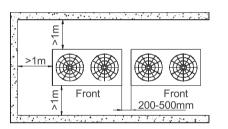


8-18HP

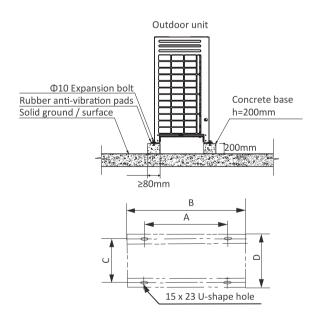
Multi-Row Installation



Single Row Installation



Outdoor unit typical concrete base structure design



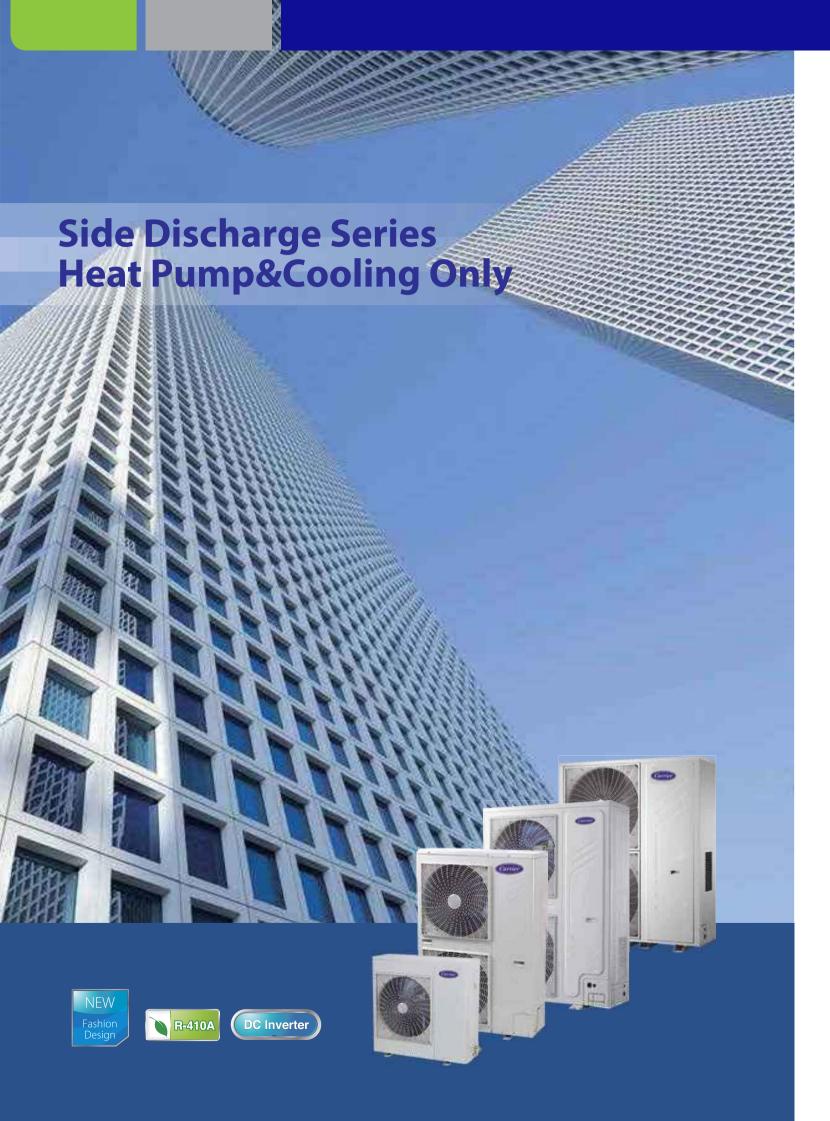
Dimension(mm)	8-18HP	20-24HP	26-32HP
А	830	1120	1455
В	960	1250	1585
С	736	736	736
D	765	765	765

Notes

1. The combinations of units shown in the table are factory-recommended. Other combinations of units are also possible.

2. For systems with two or more outdoor units, outdoor branch joints (sold separately) are required.





Features

Wide Application Range Specifications

Wide range of outdoor units

HP			4	5	6		7	8	10	12
KW Btu/hr			12	14	16	17.5	20	22.4	28	33.5
- 1-27 1 11	Blu/III		40.9	47.8	52.9	60	68.2	76.4	95.5	114.3
Air Cooled -	220-240V/1Ph/50Hz	0								
Heat Pump	380-415V/3Ph/50Hz	0								
Air Cooled - Cooling Only	380-415V/3Ph/50									

Side Discharge – Heat Pump 1 Phase

■ Specifications 50Hz

HP			4	5	6
Model			38VR004H112016	38VR005H112016	38VR006H112016
Power supply	У	V/N/Hz		220-240/1/50	
Cooling ¹	Capacity	kW	12.0	14.0	16
Cooling	Сарасну	kBtu/h	40.9	47.8	52.9
Heating ²	Capacity	kW	14.0	16.0	18.0
пеанну	Сараспу	kBtu/h	47.8	54.6	61.4
Connectable indoor unit	Max. quantity		7	8	9
C	Туре			DC inverter	
Compressor	Quantity			1	
Fan motor	Туре			DC	
ranimotor	Quantity			1	
Refrigerant	Туре			R410A	
Reiligerani	Factory charge	kg	3	3.4	3.8
Pipe connections	Liquid pipe	mm		Ф9.53	Ф9.53
connections ²	Gas pipe	mm		Ф15.9	Ф19.1
Airflow rate		m³/h	5000	5400	5200
Sound pressi	ure level	dB(A)	56	56	56
Net dimension	ons (W×H×D)	mm	950×840×426	1040×	865×523
Net weight		kg	83	90.4	94.4
Operating te	mperature range	°C		Cooling: -5~55, Heating: -15~27	

- Notes:
 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 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 at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.



Side Discharge-Heat Pump 3 Phase

■ Specifications 50Hz

НР			7	8	10	12					
Model			38VR007H119016	38VR008H119016	38VR010H119016	38VR012H119016					
Power supply		V/N/Hz		380-415,	/3/50						
Cooling ¹	Capacity	kW	20	22.4	28	33.4					
Cooming	Сарасіту	kBtu/h	68.2	76.4	97.2	114.3					
Heating ²	Capacity	kW	20	22.4	28.5	33.5					
rieating	Capacity	kBtu/h	68.2	76.4	97.2	114.3					
Connected indoor unit	Maximum qu	antity	11	13	16	20					
Compressor	Туре			DC ir	overter						
Complessor	Quantity		1								
Fan motors	Туре			[OC .						
	Quantity		2								
Refrigerant	Туре		R410A								
nemgerant	Factory charge	kg	6.5	6.5	6.5	8					
Pipe	Liquid pipe	mm		Ф1	2.7						
connections ³	Gas pipe	mm	Φ	19.1	Φ2	22.2					
Airflow rate		m³/h	9000	9000	11000	11300					
Sound pressure	level ⁴	dB(A)	58	58	60	61					
Net dimensions	(W×H×D)	mm		1120×1	558×528						
Net weight kg			143 144 157								
Operating temperature	Cooling	°C	-5 to 55								
range	Heating	°C		-20	to 24						

Side Discharge – Cooling Only 3 Phase

■ Specifications 50Hz

НР			7	8	10						
Model			38VR007C119016	38VR008C119016	38VR010C119016						
Power suppl	у	V/N/Hz		380-415/3/50							
	Capacity	kW	20.0	20.0 22.4							
Cooling ¹	Сарасіту	kBtu/h	68.2	76.4	95.5						
Connected indoor unit	Maximum Quan	tity	10	13	16						
Compressor	Туре	DC inverter									
Compressor	Quantity			1							
Fan	Quantity			2							
Refrigerant	Туре		R410A								
Reingerant	Factory charge	kg	3.9								
Pipe	Liquid pipe	mm		Ф9.53							
connections	Gas pipe	mm		Ф19.1							
Airflow rate		m³/h		7150							
Sound press	ure level²	dB(A)	57	57	59						
Net dimension	ons (W×H×D)	mm	902×1327×370								
Net weight		kg		115							
Operating te	mperature range	℃		-5 ∼ 55							

- 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

 3. Diameters given are those of the unit's stop valves.

 4. Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

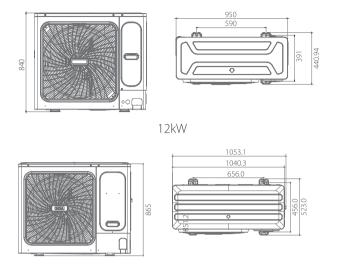
- 1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

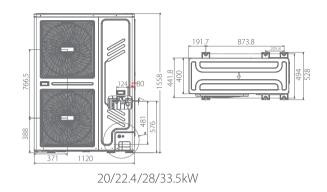
 2. Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.



Dimension

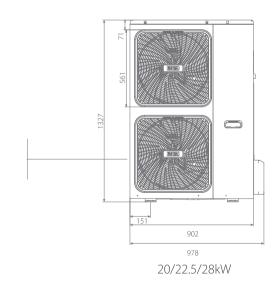
Side Discharge – Heat Pump

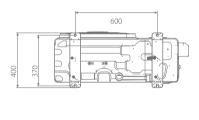


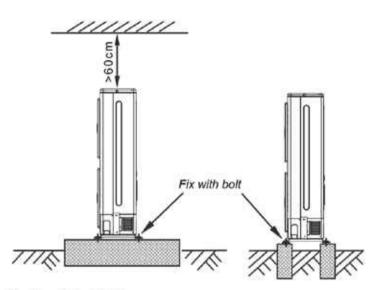


14-16kW

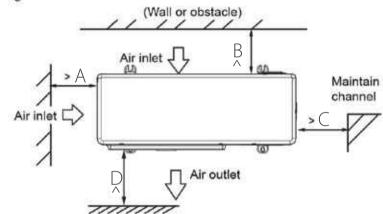
Side Discharge – Cooling Only



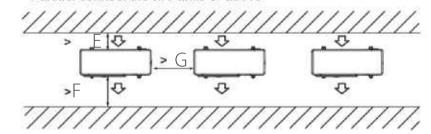




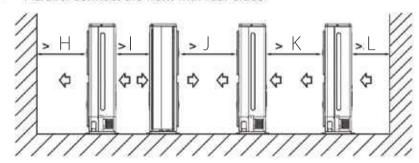
Single unit installation



· Parallel connect the two units or above



· Parallel connect the front with rear sides



Model (kW)	А	В	С	D			G	Н	1	G	K	L
8-18kW	300	300	600	2000	300	2000	600	2000	500	3000	3000	300
20-33.5kW	300	300	600	3000	300	3000	600	3000	1000	6000	4000	300

35



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
	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	Automatically selects cooling or heating mode to achieve the set		•	•				•			
	changeover ¹	temperature										<u> </u>
Comfort	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°C/1°C setting temperature adjustment	Set temperature can be adjusted in 0.5°C or 1°C steps , enabling precise comfort control	•	•	•	•	•	•	•	•	•	•
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air	•	•	•	•	•	•	•	•	•	•
Health	Fresh air intake	A reserved outside air intake port allows outdoor air to be introduced directly into the unit	• (45-71)	•	•	•	•	×	×	×	×	•
	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	•	•	•	•	•	•	•	•	•	•
	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
Air flow	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)	•
	Timer	Timer can be set to start and stop operation anytime on a daily or weekly basis	•	•	•	•	•	•	•	•	~(Exposed)	•
	Infrared remote control	Infrared remote control with LCD to remotely control your indoor unit	•	•	•	•	•	•	•	•	•	•
Remote	Wired remote control	Wired remote control to remotely control your indoor unit	•	•	•	•	•	•	•	•	•	•
control & timer	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	•	•	•	•	•	•	•	•	•	•
	°C/°F setting	Temperature unit °C or °F can be set according to your usage habits	•	•	•	•	•	•	•	•	•	•
	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	•	•	•	•	•	•	•	•	•	•
	Auto-restart	control whilst minimizing energy consumption The unit restarts automatically at the original settings after power failure	•	•	•	•	•	•	•	•	•	•
	Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies	•	•	•	•	•	•	•	•	•	•
Other	Drain pump	Facilitates condensation draining from the indoor unit	•	•	•	•	•	0	×	×	×	0
functions	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	0	0	0	0	0	0	0	0	0	0
	Long-distance alarm function	Long-distance alarm when an error occurs	0	0	0	0	0	0	0	0	0	0
	Multiple protections	Multiple protections make the unit run more reliably	•	•	•	•	•	•	•	•	•	•
	Easy cleaning	The unit is easy cleaning thanks to the rational design	•	•	•	•	•	•	•	•	•	•

- equipped as standard; o: 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.



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

Key Features

	Quiet operation	•
Comfort	0.5°C/1°C setting temperature adjustment	•
Comion	Digital display on/off	•
	Buzzer sound on/off	•
l loolth	Fresh air intake	•(45 to 71)
Health	Dirty filters indicator signal	•
Λ: fl	Multiple fan speeds	3+auto
Air flow	Multiple steps vertical swing	5+auto
Easy	Minimized height	•
installation	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°C/1°C Setting Temperature Adjustment

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



17°C 30°C 30°C

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.

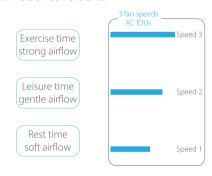




AIR FLOW

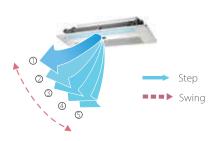
Multiple Fan Speeds

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.

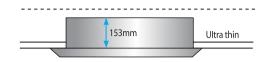




EASY INSTALLATION

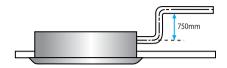
Easy Installation

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	ohase, 220-240V, 5	0Hz						
Casling	Capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1				
Cooling 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				
rreating	Input	W	41	41 41 41 48 48 60									
Indoor fan motor	Туре					AC							
macor farrinotor	Quantity					1							
Airflow rate (H/M/L)		m³/h	523/404/275	523/404/275 523/404/275		573/456/315	693/600/476	792/688/549	933/749/592				
Sound pressure leve	el (H/M/L)³	dB(A)	37/34/30 37/34/30 39/37/34 39/37/34 41/39/35				41/39/35	42/40/36	44/41/37				
Refrigerant type						R410A							
	Dimension⁴ (WxHxD)	mm	1054×153×425					1275×189×45	0				
Indoor unit	Packing (WxHxD)	mm		1155	×245×490		1370×295×50	5					
	Net/Gross weight	kg	12	5/16	13	/16.5	18.5/22.8 18.8/23.1 19.5/23.						
	Dimension (WxHxD)	mm		1180)×25×465			1350×25×505					
Panel	Packing (WxHxD)	mm		1232	2×107×517			1410×95×560	ı				
Net/Gross weight kg				3.5	5/5.2			4/5.4					
Pipe	Liquid pipe	mm			Ф9.53								
connections	Gas pipe	mm		Ф15.9									
COMMECCIONS	Drain pipe	mm				OD Φ25							



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

Key Features

Two-way Cassetto	e	
	Quiet operation	•
Camelant	0.5°C/1°C setting temperature adjustment	•
Comfort	Digital display on/off	•
	Buzzer sound on/off	•
1.1lel-	Fresh air intake	•
Health	Dirty filters indicator signal	•
۸: ۵	Multiple fan speeds	3+auto
Air flow	Multiple steps vertical swing	5+auto
F	Minimized height	•
Easy installation	High-lift drain pump	Rated head: 1200mm Raise height: 750mm

Note

43

[:] 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°C/1°C Setting Temperature Adjustment

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





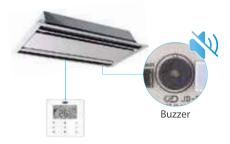
Digital Display On/Off

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

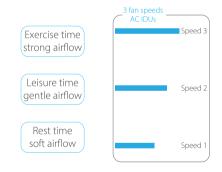
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

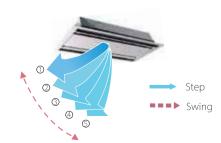
Multiple Fan Speeds

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.



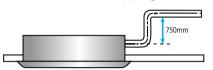
Easy Installation

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	40VT009H	40VT012H	40VT018H	40VT024H	40VT028H			
Model			10200013	10200013	10200013	10200013	10200013	10200013			
Power supply				1 phase, 220-240V, 50Hz							
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1			
g	Input	W	57	57	60	92	108	154			
Heating ²	Capacity	kW	2.6	3.2	4	5	6.3	8			
ricuting	Input	W	57	57	60	92	108	154			
Indoor fan motor	Туре				А	С					
indoor farrinotor	Quantity		1								
Refrigerant type			R410A								
Airflow rate (H/M/L) m³/h			654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1200/1000/770			
Sound pressure level	I (H/M/L) ³	dB(A)	33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34			
	Dimension ⁴ (WxHxD)	mm	1172×299×591								
Indoor unit	Packing (WxHxD)	mm	1355×400×675								
	Net/Gross weight	kg		34/42.5			36/44.5				
	Dimension (WxHxD)	mm	1430×53×680								
Panel	Packing (WxHxD)	mm	1525×130×765								
Net/Gross weight kg		kg	10.5/15								
Dia -	Liquid pipe	mm	Ф6.35 Ф9.53					9.53			
	Gas pipe	mm		Φ	12.7		Φ	15.9			
connections	Drain pipe	mm			OD	Ф32					

46



Compact design allows installation in shallow ceilings.

Key Features

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

Note:

COMFORT

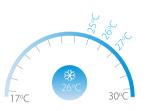
Quiet Operation

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 Filter

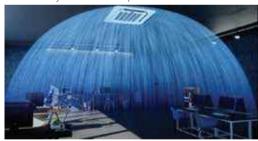
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



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.



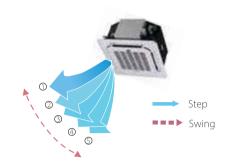


^{•:} equipped as standard; ×: without this function



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.



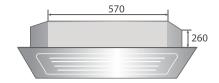
Specifications

50Hz Series

EASY INSTALLATION

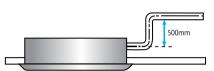
Compact Size

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.



Model			40VX006H11200013	40VX009H11200013	40VX012H11200013	40VX018H11200013			
Power supply			1 phase, 220-240V, 50Hz						
C !: 1	Capacity	kW	2.2	2.8	3.6	4.5			
Cooling ¹	Input	W	50	50	56	56			
Lleating?	Capacity	kW	2.4	3.2	4	5			
Heating ²	Input	W	50	50	56	56			
Indoor fan	Туре		·	A	C	•			
motor	Quantity			,	1				
Refrigerant type			R410A						
Airflow rate (H/M/L) m³/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			
	Dimension⁴ (WxHxD)	mm	570×260×630						
Indoor unit	Packing (WxHxD)	mm	675×285×675						
	Net/Gross weight	kg	17/20	3.5/21.5					
	Dimension (WxHxD)	mm		647×	50×647				
Panel	Packing (WxHxD)	mm	715×123×715						
	Net/Gross weight	kg		2.5,	/4.5				
Dina	Liquid pipe	mm	Ф6.35						
Pipe	Gas pipe	mm		Ф1	2.7				
connections	Drain pipe	mm	ODФ25						



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

Key Features

Four-way Cassette		
	Quiet operation	•
Comfort	0.5°C/1°C setting temperature adjustment	•
Common	Digital display on/off	•
	Buzzer sound on/off	•
Health	Air filter	•
	Fresh air intake	•
	Dirty filters indicator signal	•
	360° airflow	•
Air flow	Individual louver control	0
	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; o: customization option

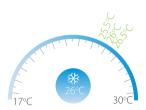


COMFORT

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

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 $> 10 \mu m$), creating a cleaner living environment.



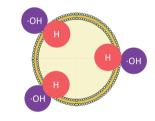
The optional filter comply with EN779:2012

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

Ionizer Sterilization

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

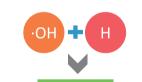




1.Negative ions combine with water molecules to form OH radicals

2.OHradical extraction of hydrogen from bacterial proteins



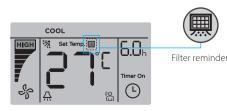


3.Components of bacterial tissues are destroyed and become ineffective (realize sterilization)

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.

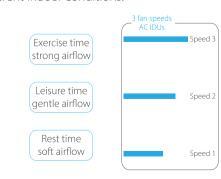
Soft Wind Mode

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

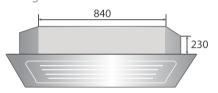
High Ceiling Installation

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.



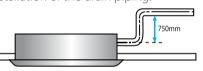
Compact Size

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.



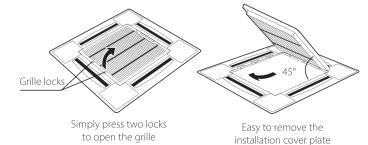
Sub Duct

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.





Specifications

50Hz Series

Model			40VK009H11200013	40VK012H11200013	40VK018H11200013	40VK024H11200013	40VK028H11200013		
Power supply			1 phase, 220-240V, 50Hz						
Coolings	Capacity	kW	2.8 3.6		4.5	5.6	7.1		
Cooling ¹	Power input	W	80	80	88	88	88		
Heating ²	Capacity	kW	3.2	4	5	6.3	8		
neating-	Power input	W	80	80	88	88	88		
Indoor fan	Туре				AC				
motor	Quantity				1				
Refrigerant typ	e		R410A						
Airflow rate (H/	M/L)	m³/h	764/638//554	764/638//554	905/740//651	905/740//651	950/767//663		
Sound pressure	e level (H/M/L) ³	dB(A)	32/31/30	32/31/30	36/34/33	36/34/33	38/36/35		
	Dimension ⁴ (WxHxD)	mm			840×230×840				
Indoor unit	Packing (WxHxD)	mm	955×260×955						
	Net/Gross weight	kg	21.5	5/26.7		23.7/28.9			
	Dimension (WxHxD)	mm	950×50×950						
Panel	Packing (WxHxD)	mm	1035×89×1035						
	Net/Gross weight	kg		5.8/7.9					
	Liquid pipe	mm	Ф6.35			Ф9.53			
Pipe connections	Gas pipe	mm	Ф12.7			Ф15.9			
	Drain pipe	mm		ОДФ32					

Model			40VK032H11200013	40VK036H11200013	40VK040H11200013	40VK048H11200013	40VK056H11200013			
Power supply			1 phase, 220-240V, 50Hz							
Carltant	Capacity	kW	8	9	10	11.2	14			
Cooling ¹	Power input	W	110	140	165	165	176			
11	Capacity	kW	9	10	11.1	12.5	16			
Heating ²	Power input	W	110	140	165	165	176			
Indoor fan	Туре				AC					
motor	Quantity			1						
Refrigerant typ	pe			R410A						
Airflow rate (H/M/L) m³/h			1200/1021/789	1332/1129/908	1651/1304/1127	1651/1304/1127	1658/1335/1130			
Sound pressur	e level (H/M/L)³	dB(A)	42/39/37	43/39/38	45/42/40	45/42/40	46/41/39			
	Dimension ⁴ (WxHxD)	mm	840×230×840)×840 840×300×840						
Indoor unit	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			
	Dimension (WxHxD)	mm	950×50×950							
Panel	Packing (WxHxD)	mm			1035×89×1035					
	Net/Gross weight	kg			5.8/7.9					
	Liquid pipe	mm	Ф9.53							
Pipe connections	Gas pipe	mm	Ф15.9							
	Drain pipe	mm			ОДФ32					

- 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.



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

Key Features

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

^{•:} equipped as standard; •: customization option; ×: without this function



COMFORT

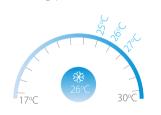
Quiet Operation

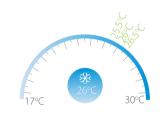
The Medium Static Pressure Duct indoor unit utilizes centrifugal blowers, reducing noise levels to as low as 23dB(A), and is an excellent choice for hotels and other noise-sensitive locations.



0.5°C/1°C Setting Temperature Adjustment

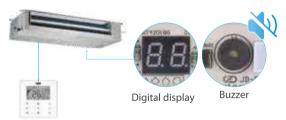
Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.





Digital Display 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 $> 10 \mu m$), creating a cleaner living environment.



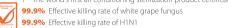
EN779:2012

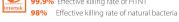
Innovative Puro-air Kit

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







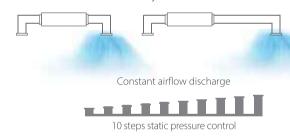


*The indoor unit needs to be customized in order to use the Puro-air Kit.

AIR FLOW

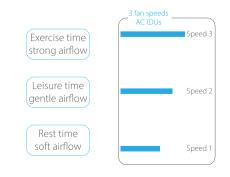
Static Pressure 10 Steps Control

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.



Multiple Fan Speeds

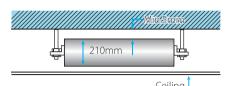
AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.



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.



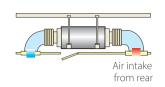
Stylish Air Discharge Panel

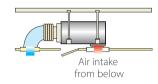
Stylish air discharge panel can be integrated with any decoration style (optional for models 17 to 71).



Flexible Air Inlet Port Installation

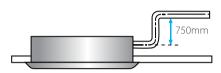
To provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.





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			
Cooling	Input	W	57	57	61	98	103			
Heating ²	Capacity	kW	2.6	3.2	4	5	6.3			
i leatility	Input	W	57	57	61	98	103			
Indoor fan	Туре				AC		1			
motor	Quantity		1							
Refrigerant ty	/pe			R410A						
Airflow rate (H/M/L)	m³/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 pressi	ure level (H/M/L)³	dB(A)	31/24/21	31/24/21	35/28/24	36/29/26	36/29/27			
	Dimension ⁴ (WxHxD)	mm		778x210x500 997x						
Indoor unit	Packing (WxHxD)	mm		870×285×525	1115×285×525					
	Net/Gross weight	kg		17.5/20	22/25					
Piping connections	Liquid pipe	mm		0	·	Ф9.53				
	Gas pipe	mm		4		Ф15.9				
	Drain pipe	mm			OD Ф25		1			

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		
Cooling	Input	W	140	198	200	283	313	250	274		
Heating ²	Capacity	kW	8	9	10	11	12.5	13.5	15.5		
neating-	Input	W	140	198	200	283	313	250	274		
Indoor fan	Туре				I	AC			I		
motor	Quantity		1								
Refrigerant ty	/pe		R410A								
Airflow rate (H/M/L)	m³/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 pressu	ure 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		
	Dimension ⁴ (WxHxD)	mm	1218x210x500	x210x500 1230×270×775 1					1290×300×865		
Indoor unit	Packing (WxHxD)	mm	1335x285x525		1355×3	50×795		1400×375×925	1400×375×925		
	Net/Gross weight	kg	27.5/31		37.5	5/43		46.5/55.5	46.5/55.5		
	Liquid pipe	mm		Ф9.53					I		
Piping connections	Gas pipe	mm				Ф15.9					
	Drain pipe	mm				OD Φ25					

Notes:

- $1. Indoor temperature \ 27^{\circ}C\ DB, 19^{\circ}C\ WB; outdoor temperature \ 35^{\circ}C\ DB; equivalent refrigerant piping length \ 7.5 m \ with zero level difference.$
- 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- 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 Pressu	ure Duct	
	Quiet operation	•
Comfort	0.5°C/1°C setting temperature adjustment	•
Comfort	Digital display on/off	•
	Buzzer sound on/off	•
Health	Air filter	● ○ (G3-class)
пеанп	Innovative puro-air kit	0
	Dirty filters indicator signal	•
A:= fla	Adjustable ESP	×
Air flow	Multiple fan speeds	3+auto
	Compact size	•
Easy installation	Flexible duct design	•
Easy installation	Double-skin drainage pan	•
	High-lift water pump box	0

Note:

COMFORT

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.



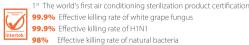
HEALTH

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







^{*}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 μ m), creating a cleaner living environment.

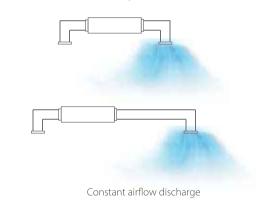


The optional filte comply with EN779:2012

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.

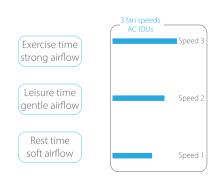




20 steps static pressure control

Multiple Fan Speeds

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



^{•:} equipped as standard; o: customization option; x: without this function



EASY INSTALLATION

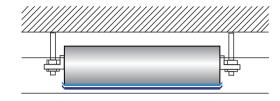
Flexible Duct Design

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

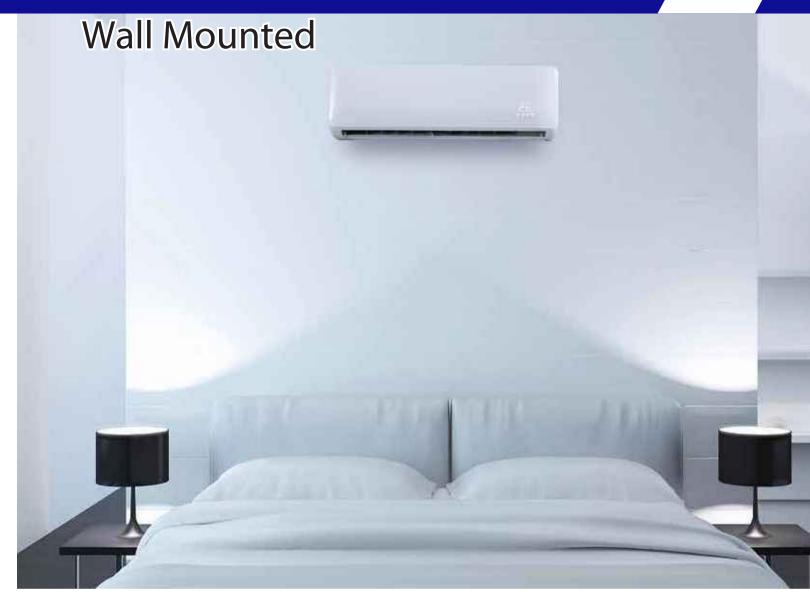


Specifications

50Hz Series

Model			42VD028H112011013	42VD032H112011013	42VD036H112011013	42VD048H112011013	42VD054H112011013	42VD055H112011013			
Power suppl	у			1 phase, 220-240V,50Hz							
Cooling ¹	Capacity	kW	7.1	8	9	11.2	14	16			
Cooling	Input	W	263	263	423	524	724	940			
Heating ²	Capacity	kW	8	9	10	12.5	16	17			
rieating	Input	W	263	263	423	524	724	940			
Indoor fan	Туре			1	'	AC					
motor	Quantity		1								
Refrigerant t	ype		R410A								
Airflow rate (SH/H/M/L)	m³/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 press	ure 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			
	Dimension ⁴ (WxHxD)	mm		965×	423×690		1322×423×691				
Indoor unit	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			
	Liquid pipe	mm		Ф9.53							
Piping connections	Gas pipe	mm		Ф15.9							
	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		
Cooling	Input	W	1408	1408	1408	2100	2100	2800		
Heating ²	Capacity	kW	22.5	26	31.5	45	50	63		
пеанну-	Input	W	1408	1408	1408	2100	2100	2800		
Indoor fan	Туре					AC .				
motor	Quantity		2			3				
Refrigerant type			R410A							
Airflow rate (SH/H/M/L)	m³/h	4600/3765/2900/2100			7500/5800/4310/3090	7500/5800/4310/3090	8400/5859/4300/3100		
External statio	: pressure (Std(Min~Max))	Pa		250(50~300)		300(50~400)				
Sound pressi	ure level (SH/H/M/L)³	dB(A)	57/56/52/47			60/58/54/49	60/58/54/49	61/56/51/46		
	Dimension⁴ (WxHxD)	mm		1454×515×931		2010×680×905				
Indoor unit	Packing (WxHxD)	mm		1509×550×990		2095×800×964				
	Net/Gross weight	kg		124/135		202/233	202/233	202/233		
	Liquid pipe	mm		Ф12.7		Ф15.9				
Piping connections	Gas pipe	mm		Ф22.2		Ф28.6				
	Drain pipe	mm			OD Φ	32				



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	•
Comfort	Digital display on/off	•
	Buzzer sound on/off	•
Health	Air filter	•
Пеанн	Dirty filters indicator signal	•
Air flow	Multiple fan speeds	7+auto
All How	Multiple steps vertical swing	5+auto
Easy installation	Compact size	•
Easy installation	Exposed installation, no need ceilings	•
	Flexible pipe outlet direction	•

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.

^{•:} 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°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

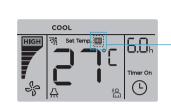
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

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

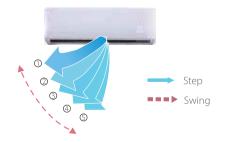
Multiple Fan Speeds

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

Optional controller









WL-12B-CM

WL-12F-CM

WR-86KD-CM

Model			42VH006H115000106	42VH009H115000106		
Power supply			1 phase, 220-240V, 50/60Hz			
	Capacity	kW	2.2	2.8		
Cooling ¹	Capacity	kBtu/h	7.5	9.6		
	Power input	W	28	28		
	Capacity	kW	2.4	3.2		
Heating ²	Сараспу	kBtu/h	8.2	10.9		
	Power input	W	28	28		
Air flow rate ³		m³/h	422/411/402/393/380/368/356	417/402/386/370/353/338/316		
Sound pressure lev	rel ⁴	dB(A)	31/30/30/30/29/29/29	31/30/30/30/29/29/29		
	Net dimensions ⁵ (WxHxD)	mm	835×2	80×203		
Unit	Packed dimensions (WxHxD)	mm	935×3	85×320		
	Net/Gross weight	kg	8.4/12.1	9.5/13.1		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
ripe connections	Drain pipe	mm	OD	Ф16		

Model			42VH012H115000106	42VH018H115000106	42VH024H115000106		
Power supply			1 phase, 220-240V, 50/60Hz				
	Capacity	kW	3.6	4.5	5.6		
Cooling ¹	Capacity	kBtu/h	12.3	15.4	19.1		
	Power input	W	30	40	45		
	Capacity	kW	4.0	5.0	6.3		
Heating ²	Capacity	kBtu/h	13.6	17.1	21.5		
	Power input	W	30	40	45		
Air flow rate ³		m³/h	656/628/591/573/544/515/488	594/563/535/507/478/450/424	747/713/685/648/613/578/547		
ound pressure lev	vel ⁴	dB(A)	33/32/32/31/31/30/30	35/34/33/33/32/31/31	38/37/36/36/35/34/34		
	Net dimensions ⁵ (WxHxD)	mm		990×315×223			
Jnit	Packed dimensions (WxHxD)	mm		1085×420×335			
	Net/Gross weight	kg	11.4/15.5	12.8/16.9			
Dina connections	Liquid/Gas pipe	mm	Ф6.35	/Ф12.7	Ф9.53/Ф15.9		
Pipe connections	Drain pipe	mm	OD Φ16				

Model			42VH028H115000106 42VH032H115000106		42VH036H115000106		
Power supply			1 phase, 220-240V, 50/60Hz				
	Capacity	kW 7.1		8.0	9.0		
Cooling ¹	Capacity	kBtu/h	24.2	27.3	30.7		
	Power input	W	55	55	82		
	Capacity	kW	8.0	9.0	10.0		
Heating ²	Сараспу	kBtu/h	27.3	30.7	34.1		
	Power input	W	55	55	82		
Air flow rate 3		m³/h	1195/1130/1065/1005/940/875/809	1195/1130/1065/1005/940/875/809	1421/1300/1125/1067/1005/934/867		
Sound pressure lev	/el ⁴	dB(A)	44/43/42/39/38/37/36 44/43/42/39/38/37/36		48/46/45/43/41/40/38		
	Net dimensions ⁵ (WxHxD)	mm	1194×343×262				
Unit	Packed dimensions (WxHxD)	mm		1290×375×460			
	Net/Gross weight	kg					
Pipe connections	Liquid/Gas pipe	mm	Ф9.53/Ф15.9				
ripe connections	Drain pipe	mm					

- 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

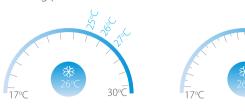
Ceiling & Floor		
	Quiet operation	•
Comfort	0.5°C/1°C setting temperature adjustment	•
Comfort	Digital display on/off	•
	Buzzer sound on/off	•
Health	Air filter	•
пеанп	Dirty filters indicator signal	•
	Multiple fan speeds	3+auto
Air flow	Multiple steps vertical swing	5+auto
	Horizontal swing	•
	Pure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

Note:

COMFORT

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

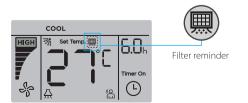
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

Dirty Filters Indicator Signal

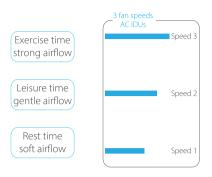
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



AIR FLOW

Multiple Fan Speeds

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

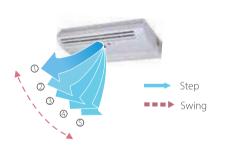


Multiple Steps Vertical Swing and Horizontal Swing

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.



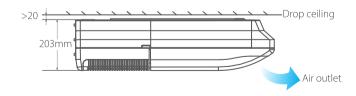
Horizontal & Ver tical



EASY INSTALLATION

Pure White Stylish Panel with Slim Design

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



^{•:} equipped as standard



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



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	Capacity	kW	3.6	4.5	5.6	7.1			
Cooling ¹	Input	W	49	120	122	125			
Heating ²	Capacity	kW	4	5	6.3	8			
neating-	Input	W	49	120	122	125			
Indoor fan motor	Туре	Туре		AC					
	Quantity		1						
Refrigerant type			R410A						
Airflow rate (H/M/	(L)	m³/h	650/570/500 800/600/500						
Sound pressure le	evel (H/M/L)³	dB(A)	40/38/36 43/41/38						
	Dimension⁴ (WxHxD)	mm		990×2	03×660				
Indoor unit	Packing (WxHxD)	mm		1089×	296×744				
	Net/Gross weight	kg	26/32		28/34				
	Liquid pipe	mm	Ф6	35	Ф9.53				
Piping connections	Gas pipe	mm	Ф12.7		Ф15.9				
	Drain pipe	Drain pipe mm		ΟΦ25					

Model			42VF032H112000013	42VF036H112000013	42VF048H112000013	42VF054H112000013		
Power supply			1 phase, 220-240V,50Hz					
Cooling ¹	Capacity	kW	8	9	11.2	14		
Cooling	Input	W	130	130	182	182		
Hasting2	Capacity	kW	9	10	12.5	15		
Heating ²	Input	W	130	130	182	182		
Indoor fan	Туре	Туре		AC				
motor	Quantity		1		2			
Refrigerant type			R410A					
Airflow rate (H/M/	L)	m³/h	1200/900/700		1980/1860/1730			
Sound pressure le	vel (H/M/L)³	dB(A)	45/43/40		47/45/42			
	Dimension⁴ (WxHxD)	mm	1280×203×660		1670×244×680			
Indoor unit	Packing (WxHxD)	mm	1379×	296×744	1764×329×760			
	Net/Gross weight	kg	34.	5/41	54/59			
	Liquid pipe	mm	Ф		Φ9.53			
Piping connections	Gas pipe	mm		Ф1	015.9			
	Drain pipe	mm		ODФ25				

- $1. Indoor temperature 27^{\circ}C DB, 19^{\circ}C WB; outdoor temperature 35^{\circ}C DB; equivalent refrigerant piping length 7.5m with zero level difference.$
- 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
- 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







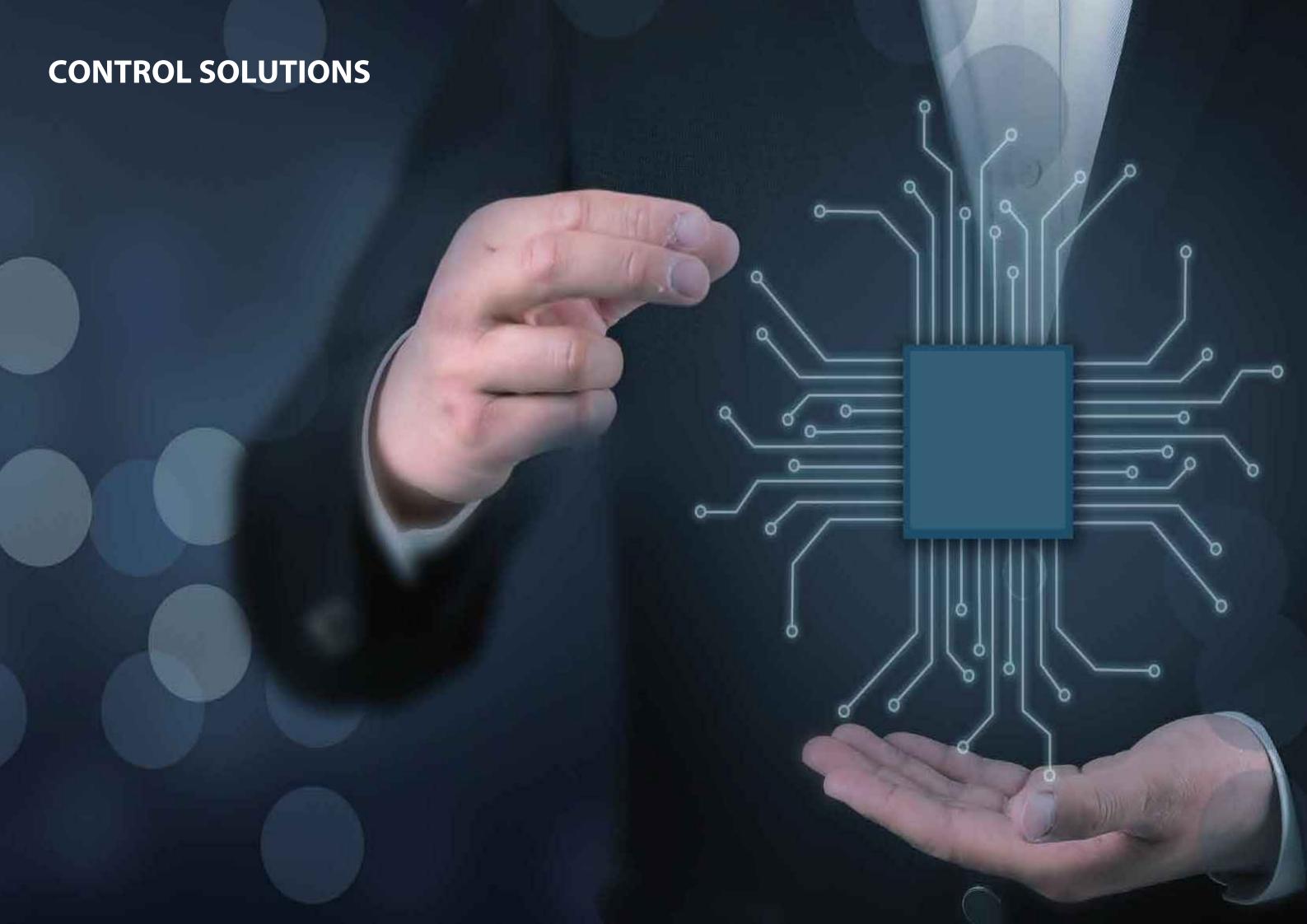
WL-12B-CM

WL-12F-CM WR-86KD-CM

Model			42VD052H115211016	42VD054H115211016		
Power supply	er supply 1 phase, 220-240V, 50/60Hz			240V, 50/60Hz		
	Capacity	kW 12.5		14.0		
Cooling ¹	Capacity	kBtu/h	42.6	47.8		
	Power input	W	480	480		
	Capacity	kW	10.5	12.0		
Heating ²	Capacity	kBtu/h	36.0	41.0		
	Power input	W	480	480		
Air flow rate ³		m³/h	2000/1917/1833/1750/1667/1583/1500			
External static pres	sure	Pa	150(10	00-250)		
Sound pressure lev	/el ⁴	dB(A)	48/47/46/45/44/43/42			
	Net dimensions ⁵ (WxHxD)	mm	1322×4	423×691		
Jnit	Packed dimensions (WxHxD)	mm	1436×4	450×768		
	Net/Gross weight	kg	68	1/76		
Dina connections	Liquid/Gas pipe	mm	Ф9.53/Ф19.1			
Pipe connections	Drain pipe	mm	OD Ф25			
Operating temper	ature 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			
	Capacity	kW	20.0	25.0	28.0	45.0	56
Cooling ¹	Capacity	kBtu/h	68.2	85.3	95.5	153.6	191
	Power input	W	850	850	850	1080	2272
	Capacity	kW	12.8	16.0	18.0	28.0	39
Heating ²	Capacity	kBtu/h	43.7	54.6	61.4	95.6	133
	Power input	W	850	850	850	1080	2272
Air flow rate ³		m³/h	3000/2	833/2667/2500/2333/21	67/2000	4200/3967/3733/3500 /3267/3033/2800	6000/5665/5330/5000/ 4665/4330/4000
External static pres	sure	Pa	200(100-400)			300(100~ 400)	
Sound pressure lev	/el ⁴	dB(A)	50/49/48/47/46/44/43			58/56/55/53/51/49/48 59/57/56/55/53/51/50	
	Net dimensions ⁵ (WxHxD)	mm		1454×515×931		2010×905×680	
Unit	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		Ф12.7/Ф22.2			Φ28.6
	Drain pipe	mm	OD Ф32			OD Ф32 OD Ф32	
Operating temperature range °C		Heating: -5 to 16; Cooling: 20 to 43; Fan only: 16 to 20					

- 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.



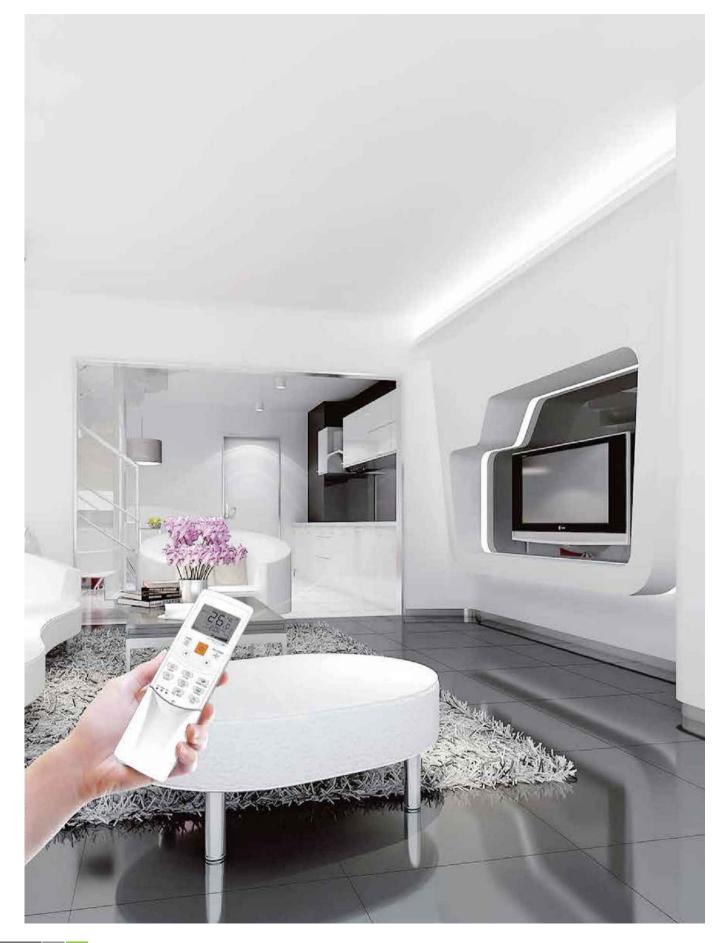


CONTROLLER LINEUP

Wireless Remote Controllers	Wired Controllers	Centralized Controllers	Network Control System	BMS Gateways	Accessories
WL-12B-CM	WR-86KD-CM	CRF-180B-CM	5GNS-BAC-CM	5GNS-BAC-CM	Hotel Key Card Interface Module
Standard wireless remote for all non-ducted indoor units	Factory recommended thermostat		OR		CA-HKCW
			CRF-270C-CM	NW-LON-CM-A	Infrared Sensor Controller
WL-12F-CM	WR-120G-CM	CRF-270C-CM	+		CA-IS
		CRF-210A-CM		NW-MOD-CM-A	Diagnosis software
		1 III	4GNS-20-IF	EDWOCNEDWIII	VRF-DIAG-B
		CRF-15B-CM		GW-KNX + 3 -	XYE Extension Kit
		Data Converter	= Intelligent Management System	Procedure of the Control of the Cont	CA-EK



Wireless Remote Controllers



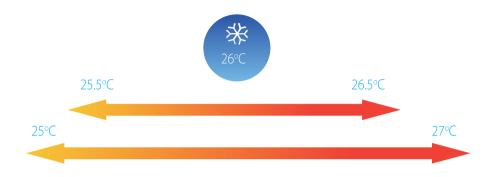
Model	WL-12B-CM	WL-12F-CM
On / Off	•	•
Mode selection	•	•
Temperature setting	● (0.5°C or 1°C steps)	• (0.5°C or 1°C steps)
7-speed fan control	•	•
Auto swing	•	•
5-step swing louver	•	•
Address setting	•	•
Follow me	_	•
Eco mode	•	•
Night silent mode	•	•
Display shut-off	•	•
Daily timer	•	•
Keyboard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

- With this function
- __ Without this function



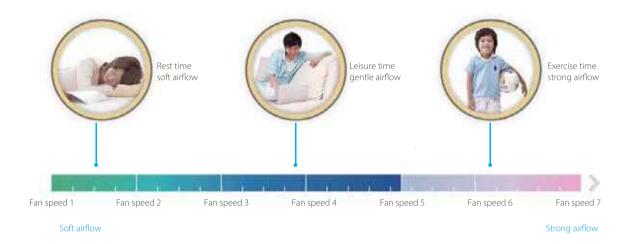
Temperature Setting

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.



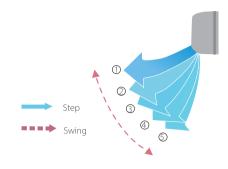
Dispaly Shut-off

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



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.





2 Permission Levels

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



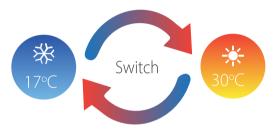
Extension Function

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



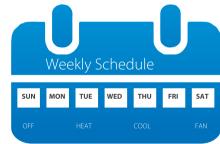
Dual Temperature Set Points

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.



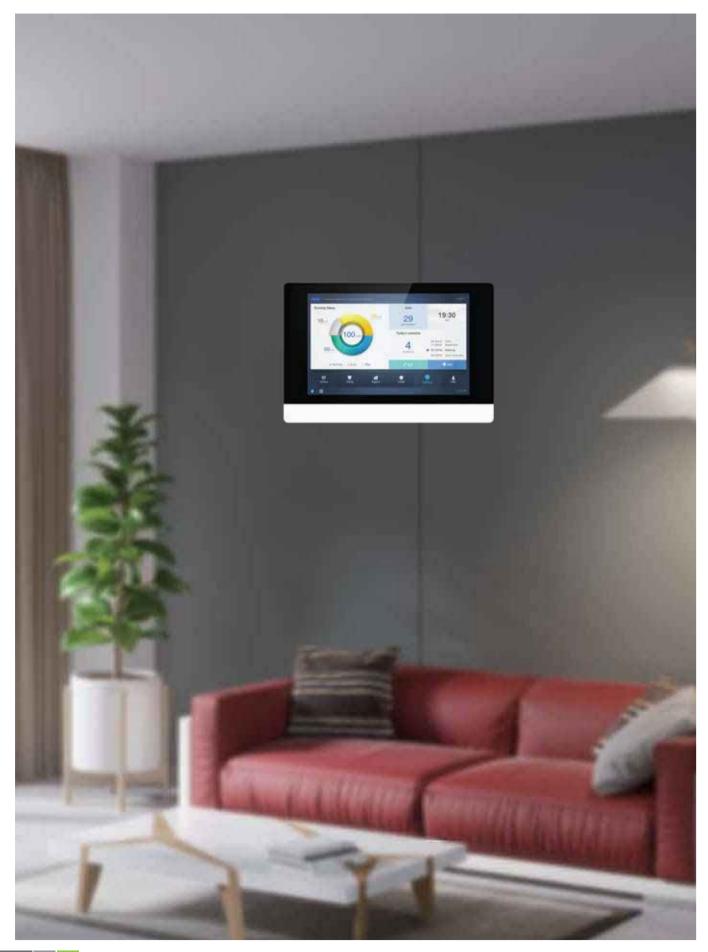
Bi-directional Communication

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





Centralized Controllers



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
Fouch screen	(6.2-inch)	(7.0-inch)	(10.1-inch)
On/Off			
Mode selection	•	•	•
emperature setting		● (0.5°C steps)*	
7-speed fan control		*	
Auto swing	•	•	
i-step swing louver*	•		•
Room temperature display	•		
Holiday setting	•		•
C/°F display	•		
Chedule management	•		•
Clock display	•		
2 permission levels	•		
Extension function	•	×	
ndoor unit type/model recognition			×
ndoor unit with capacity larger chan 16kW recognition		*	
HRV Control		•	•
/isual schematic	×	×	•
Energy management	•	•	•
Group management	•	•	•
Error check function	•	•	*
System parameter querying	•	•	•
JSB output	•	•	Error roport and
Report display	Error report	Error report	Error report and operation record
Operation log	×	×	•
AN access	X English	× Chinese, French, Spanish, Portuguese, Italia	an Corman
Language supported	English,	Polish, Turkish, Hungarian, Russian, Korea	an, German, an
Dimensions (W×H×D) (mm)	182×123×34	174x111x26	270×183×27
Power supply	12V DC	12V DC	24V AC

Note:
•: equipped as standard; ×: without this function
*means this function is only available for V6/V6i/V6R/V4+I(10-12HP), Mini C outdoor unit.



Touch Screen

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



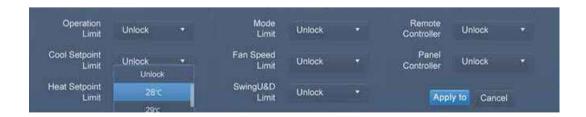
Electricity Charge Distribution

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.



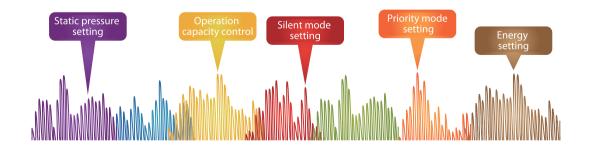
Group Management

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.



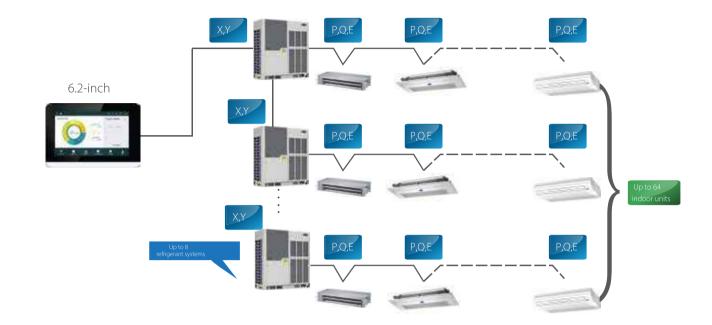
LAN Access

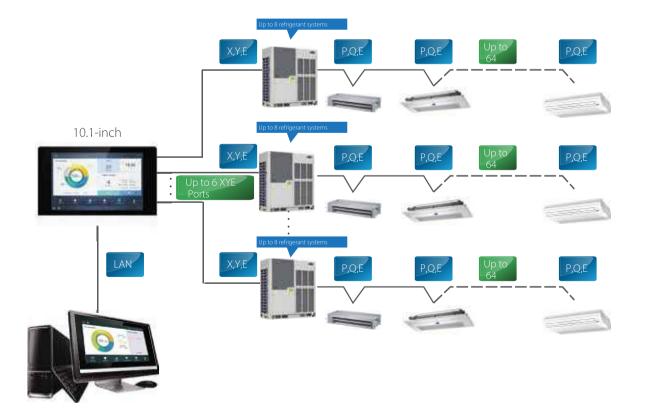
A desktop or laptop PC can be used for browser-based access via a LAN connection.



Wiring Flexibility

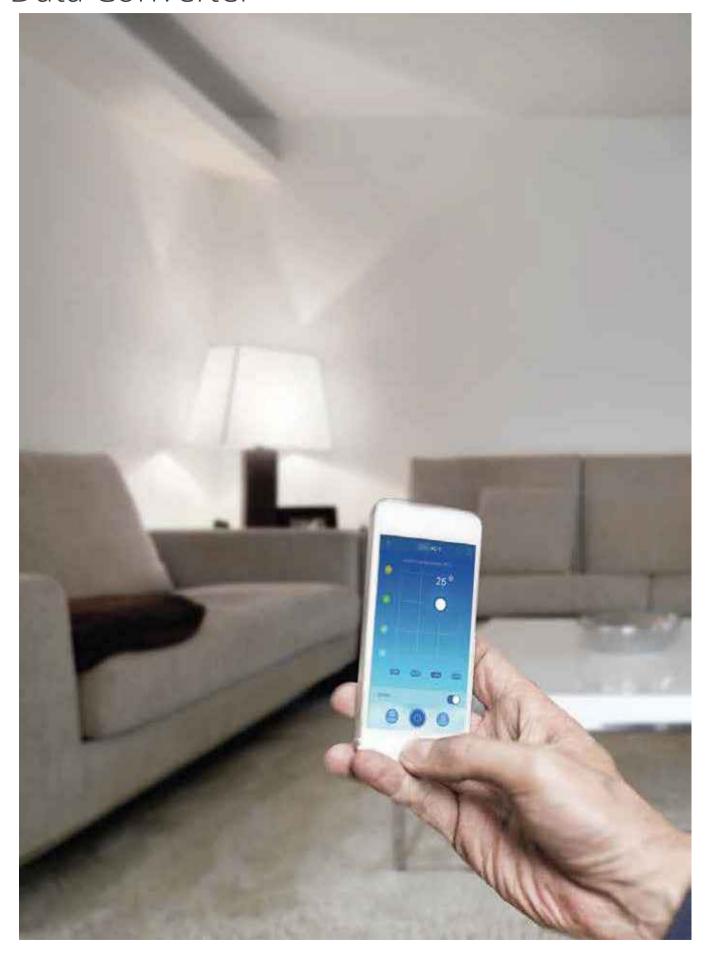
The controllers can be connected to the master outdoor unit directly.







Data Converter



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°C steps)	● (1°C steps)
7-speed fan control	_	_
Auto swing	•	•
5-step swing louver	_	_
Room temperature display	•	•
°C/°F 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	

- 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.



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.

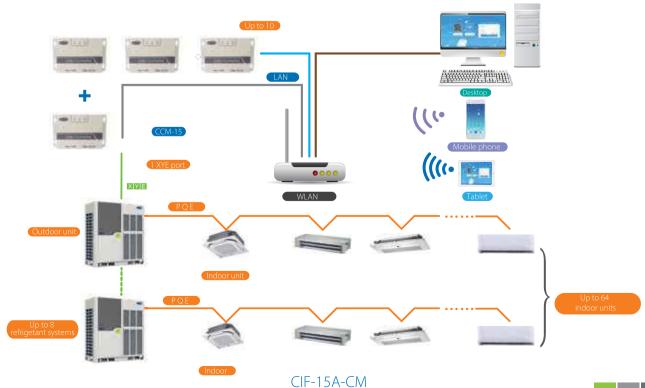
Multiple Language Options

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.





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°C steps)	● (0.5°C 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, Itali	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean	
Dimensions (WxHxD) (mm)	251×319×61 270×183×27		
Power supply	1 phase, 100-240V, 50/60Hz 24V AC		

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



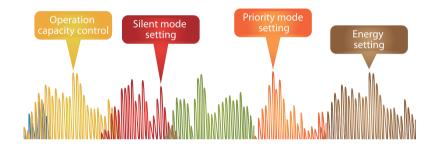
User-friendly Interface

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.



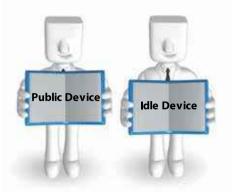
Electricity Charge Distribution

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.



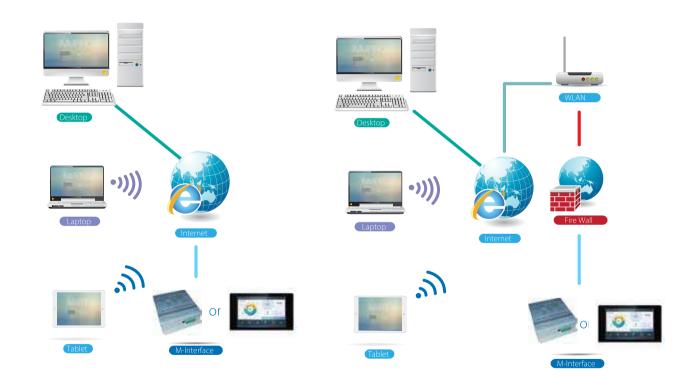


Xpress Installation

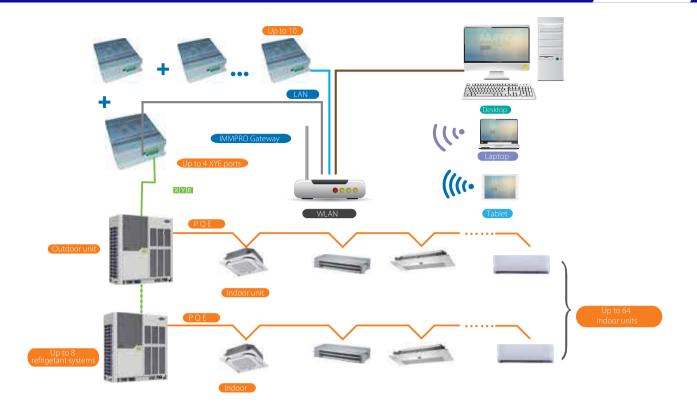
With the Xpress Installation wizard, IMMPRO can be installed quickly and easily without requiring support from a technical support engineer.



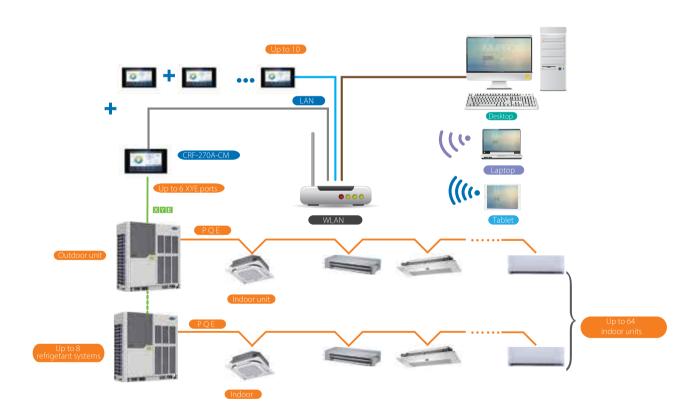
Network Flexibility



CRF-270B-CM LAN access Remote VPN access



4GNS-BAC-CM







BACnet® Gateway



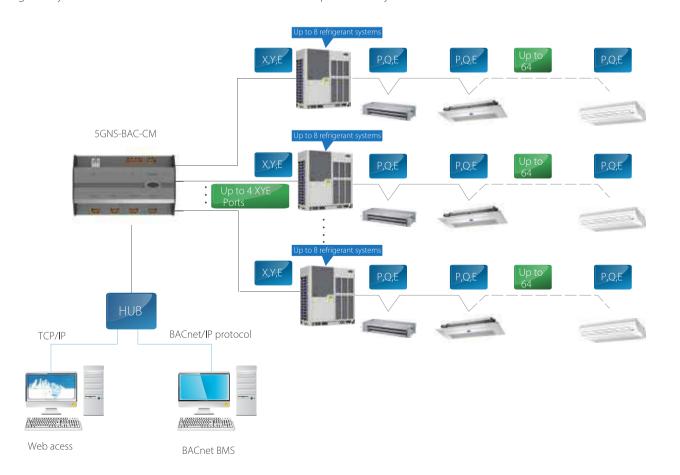
5GNS-BAC-CM

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.



Model		5GNS-BAC-CM
Max. number of indoc	or units	256
Max. number of outdo	por units	128
Max. number of refrige	erant systems	32
	On / Off	•
	Mode selection	•
Control	Temperature setting	•
	Fan speed	•
	Energy management	•
	Room temperature display	•
Indoor unit	Error status	•
monitoring	Error alarms	•
	Operating mode	•
	Outdoor ambient temperature	•
	Fan speed	•
Outdoor unit	Compressor operating frequency	•
monitoring	Discharge temperature	•
	System pressure	•
	Error status	•
	Error alarms	•
LAN access		•
BTL certification		•
	Siemens	APOGEE
	Trane	TRACER
Compatibility	Honeywell	ALERTON
	Schneider	Andover Continuum
	Johnson Controls	METASYS
Dimensions (HxWxD)(mm)		116x190x67
Power supply		24V AC 50/60Hz

- With this function
- __ Without this function





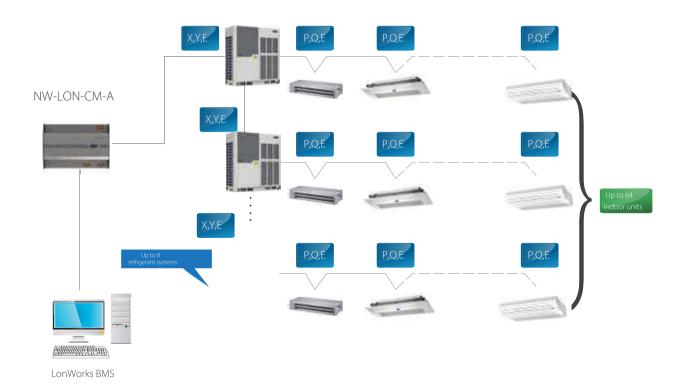
LonWorks® Gateway

NW-LON-CM-A

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



Model	NW-LON-CM-A	
Max. number of indoor units		32
Max. number of refrigerant systems		8
	Mode selection	•
	Temperature setting	•
Control	Fan speed	•
	Group shut down	•
	On / Off	•
	Operating mode	•
	Set temperature	•
	Fan speed	•
Indoor unit monitoring	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





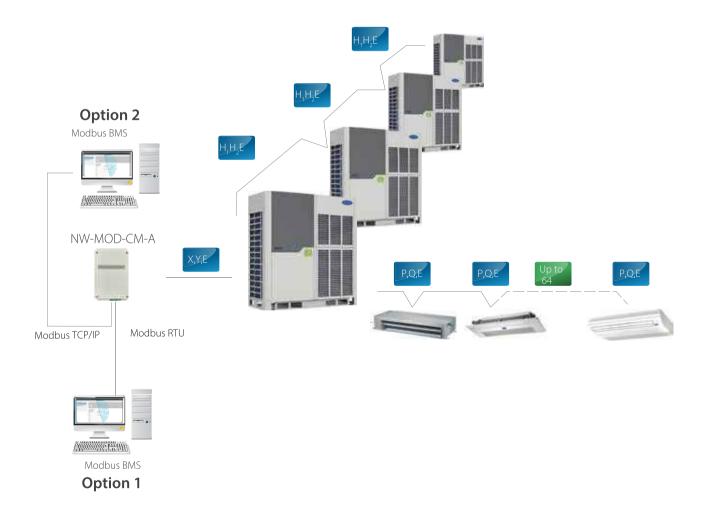
Modbus® Gateway

NW-MOD-CM-A

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



Model	NW-M	OD-CM
Max. number of indoo	or units	64
Max. number of outd	oor units	4
Max. number of refrig	erant systems	1
	On / Off	•
	Mode selection	•
Control	Temperature setting	•
	Fan speed	•
	Group on/off	•
	Online status	•
Indoor unit	Room temperature	•
monitoring	Error status	•
	Operating mode	•
	Operating mode	•
	Lock status	•
Outdoor unit	Fan speed	•
monitoring	Set temperature	•
	Outdoor ambient temperature	•
	Error status	•
LAN access		•
Dimensions (HxWxD)	o(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

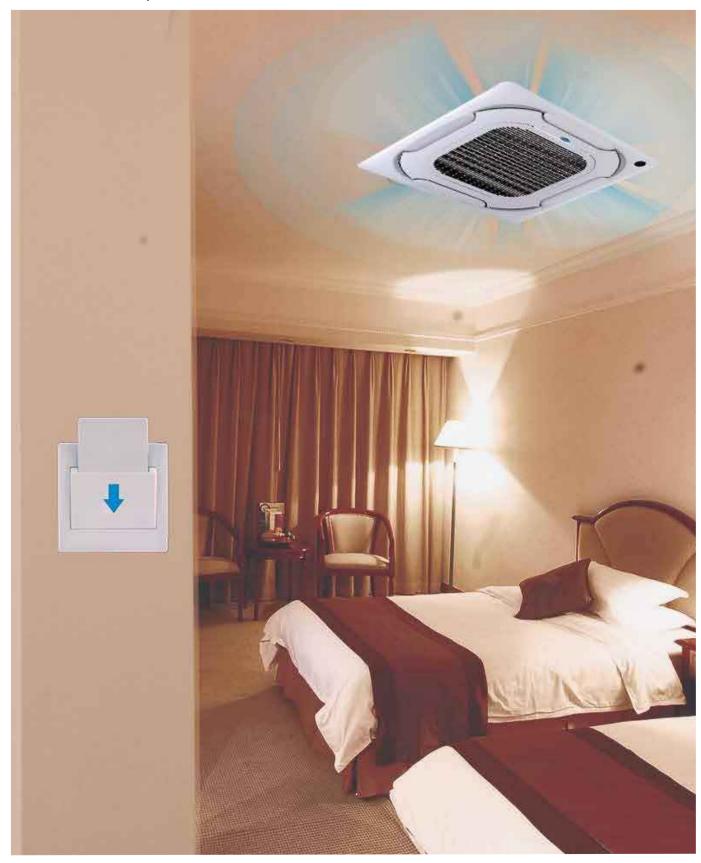
The gateway can be connected to indoor units' XYE or D1D2E ports directly.



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

Model	CA-HKCW	CA-HKCS
Appearance	Name Company	
Network flexibility	220V Key card AC contactor	220V Key card
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.

Model	CA-IS	
Appearance		THE T
Network flexibility	D1D2 X1X2 Wired controller	D1D2 D1D2 Up to 16 Control box Infrared sensor
Dimensions (HxWxD)(mm)	Sensor 46x30x25.6, Control box 86x72.8x15.5	
Power supply		5V DC (Supplied by indoor unit)

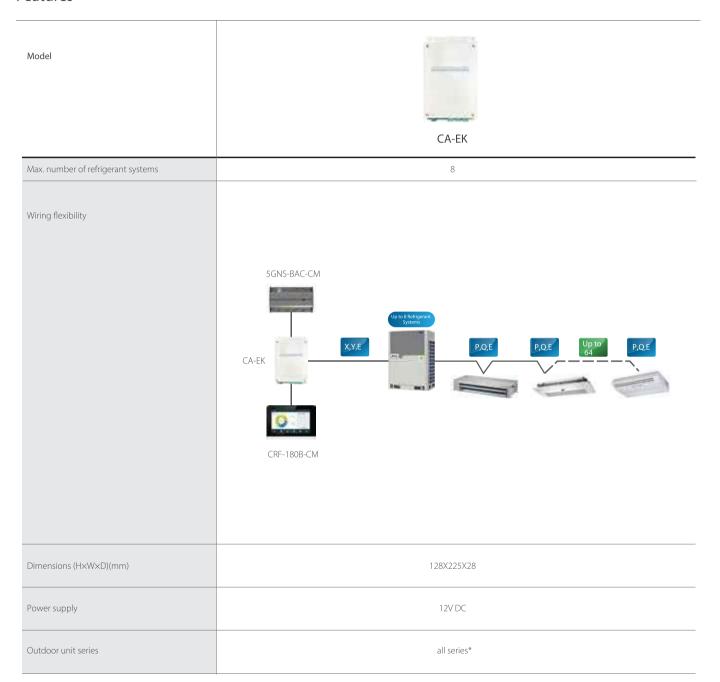


XYE Extension Kit

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



Diagnosis Software

Monitor and Diagnose

Carrier's VRF Diagnosis Software tool is used to monitor VRF systems and diagnose system errors.

System settings and operating parameters can be accessed easily and data logs can be reviewed for fault prevention purposes.

Features

Model	VRF-DIAG-B	
Max. number of indoor units		64
Max. number of outdoor uni	ts	4
Max. number of refrigerant s	ystems	1
	Mode selection	•
Control	Temperature setting	•
	Fan speed	•
	Operating mode	•
	Capacity	•
	Compressor operating frequency	•
Outdoor unit	Operating current	•
monitoring	Error status	•
	Temperatures	T3,T4,Tp (See note 1)
	Valve statuses	SV2, SV4, SV5, SV6, ST1 (See note 2)
	EXV position	•
	Operating mode	•
	Capacity	•
Indoor unit	Fan speed	•
monitoring	Address	•
	Temperatures	T1, T2, T2B, TS (See note 3)
	EXV position	•
Error codes		•
Toubleshooting		•
Data logs		•
Diagrams		System schematic, refregetrant flow diagram, parameter chart
Languges supported		English

With this functionWithout this function

Notes:

Heat exchanger temperature, outdoor ambient temperature, discharge temperature.

^{2.} Discharge temperature control valve, oil return valve, defrosting valve, EXV bypass valve, four-way valve.

^{3.} Indoor ambient temperature, indoor heat exchanger mid-point temperature, indoor heat exchanger outlet temperature, set temperature.



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.

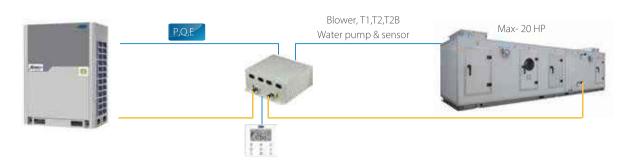


Compatible with All VRF Systems

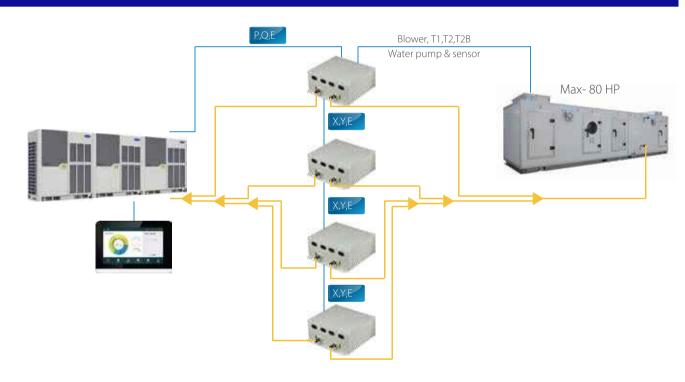
AHU kits are compatible with all Carrier VRF outdoor units and can be used together with all types of Carrier VRF indoor units.



Single AHU Control Box Connection



Multi AHU Control Boxes Connection



Specifications

Model name	AHUKZ-00D	AHUKZ-01D	AHUKZ-02D	AHUKZ-03D	
Capacity A (kW)	2.2≤A<9	9≤A≤20	20 <a≤36< td=""><td>36<a≤56< td=""></a≤56<></td></a≤36<>	36 <a≤56< td=""></a≤56<>	
Power supply		220-240V~50/60Hz			
Liquid pipe (in/out) (mm)	Ф9.53/Ф9.53	Ф9.53/Ф9.53	Φ12.7/Φ12.7	Ф15.9/Ф15.9	
Dimension (WxHxD) (mm)		341x133x395			
Weight (kg)	5.7	5.7	5.8	6.0	
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			

113

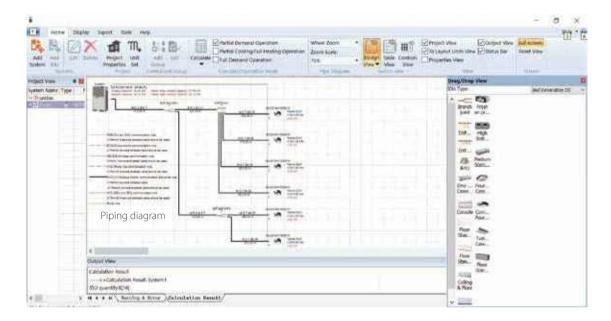


Selection Software "CSSP"

High Efficiency

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

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



CAD View



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

115



Dimensions

Outdoor Branch Joints

Model	Gas side joints	Liquid side joints
BJC-02E-CM(i)	O1	D:15.9 OD:19.1 P:19.1 P
BJC-03E-CM(i)	D31.8 OD38.1 (D38.1 or	D:15.9

