

XPOWER Series



United Technologies

Variable Refrigerant Flow System



CARRIER XPOWER DC INVERTER VRF



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» VRF SYSTEM

Xpower Super Plus Series



Heat pump
Max. 4 modules can be combined
8~88HP (Tropical 8~72HP)
All DC inverter compressors
All DC fan motors

Xpower EcoK Series

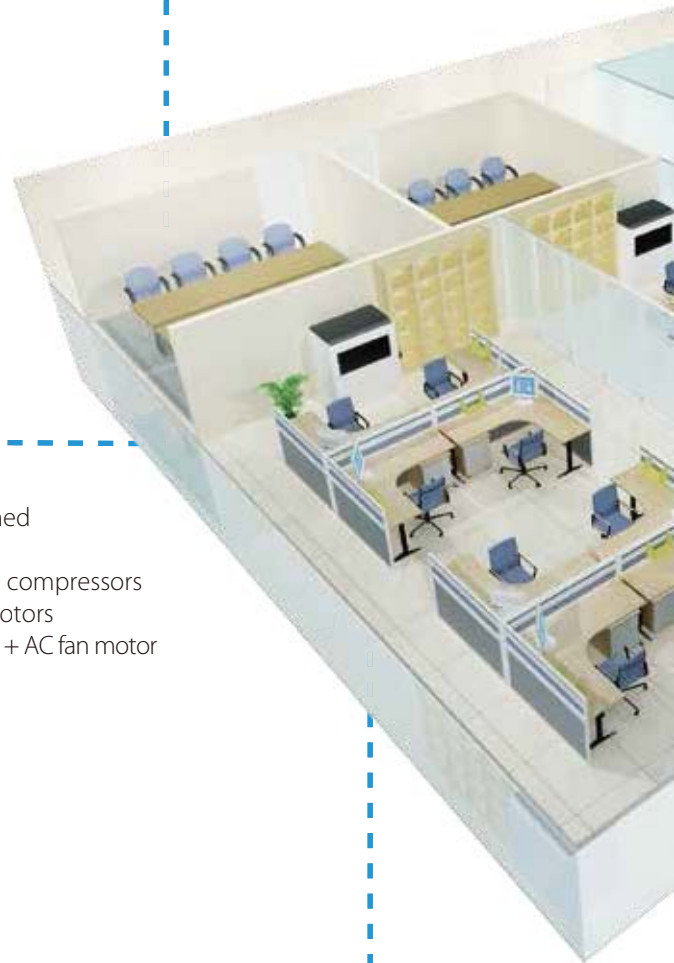


Heat pump/Cooling only
Max. 4 modules can be combined
8~72HP
DC inverter compressor + fixed compressors
Heat pump series: All DC fan motors
Cooling only series: DC fan motor + AC fan motor

Xpower Heat Recovery Series



Heat recovery
Simultaneous cooling and heating operation in one system
Max. 4 modules can be combined
8~64HP
All DC inverter compressors
All DC fan motors





Xpower Watercooled VRF



Water cooled
Max. 3 modules can be combined
8~36HP
DC inverter compressor

Xpower Individual Series



Heat pump, cannot be combined
7~32HP
DC inverter compressor + fixed compressors
DC fan motor + AC fan motor

Xpower Mini VRF





Heat pump, cannot be combined
3~6.5HP
DC inverter compressor
All DC fan motors



OUTDOOR UNIT LINEUP

Connectable VRF

HP		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38		
Xpower Super Plus Series		Single unit										Multi combination							
		Single unit							Multi combination										
Xpower EcoK Series		Single unit							Multi combination										
Recovery Series		Single unit					Multi combination												
Xpower Water Cooled VRF		Single unit			Multi combination														

Single VRF




HP		3	4	4.5	5	6	6.5	7	8	10	12	14	16	20		
Xpower Mini VRF		Single unit														
Xpower Individual Series									Single unit							

-  Single unit
-  Multi combination

	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88						
	[Orange bar]																														
	[Orange bar]																														
	[Orange bar]																														
	[Orange bar]																														

	22	24	26	28	30	32
	[Blue bar]					

INDOOR UNIT LINEUP

kW			1.5	1.8	2.2	2.8	3.6	4.5	5.6	7.1		
kBtu/h			5	5	6	9	12	18	24	28		
CASSETTE	1WAY			[Blue bar from 1.8 to 7.1 kW]								
	2WAY			[Blue bar from 2.2 to 7.1 kW]								
	4WAY			[Blue bar from 2.8 to 7.1 kW] [Red bar from 2.8 to 5.6 kW] [Green bar from 1.8 to 7.1 kW]								
	COMPACT		[Red bar from 1.5 to 1.8 kW]	[Blue bar from 2.2 to 4.5 kW] [Red bar from 2.2 to 4.5 kW]								
DUCTED	Low/Medium Static Pressure Duct		[Blue bar from 1.5 to 1.8 kW]	[Blue bar from 2.2 to 7.1 kW]								
	MSPD											
	HSPD											[Blue bar from 7.1 to 28 kBtu/h]
	FRESH AIR											
HW			[Red bar from 2.2 to 7.1 kW]									
CEILING&FLOOR			[Blue bar from 3.6 to 7.1 kW]									
FLOOR STANDING			[Blue bar from 2.2 to 7.1 kW]									
CONSOLE			[Blue bar from 2.2 to 4.5 kW]									

	8	9	10	11.2	12.5	14	16	20	25	28	40	45	56
	32	36	40	48	52	54/56 (cassette)	55	56	58	60	140	160	190



» OUTDOOR UNITS



- Xpower Super Plus Series
- Xpower EcoK series
- Xpower Heat Recovery Series
- Xpower Water Cooled VRF
- Xpower Individual Series
- Xpower Mini VRF



Indoor Units

Xpower VRF indoor unit



Fresh Air Processing Unit

100% fresh air supply



Ventilation

Heat recovery ventilator (HRV)



AHU Connection Kit

Connect to other brand AHU



Control Systems

Smart control systems



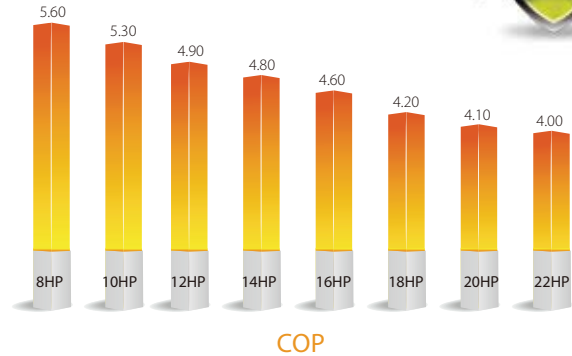
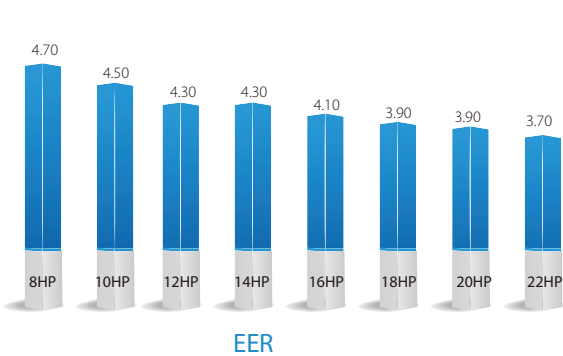
Xpower Super Plus Series

- » DC inverter compressor
- » DC fan motor
- » Capacity up to 72/88HP
- » Connectable indoor units quantity up to 64
- » ESP up to 60Pa
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple communication wiring
- » Auto addressing
- » Easy maintenance

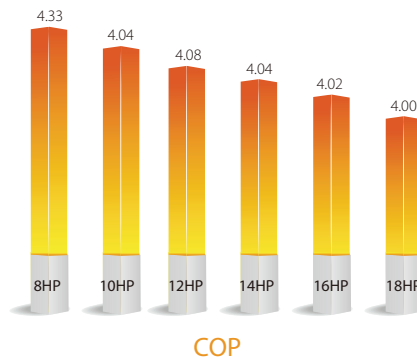
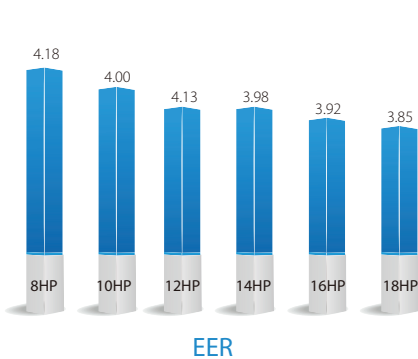
High Efficiency

High EER and COP >>

DC compressors and fan motors together with a high-efficiency heat exchanger combine to give the Super Plus Series top-class energy efficiency in cooling and heating.



Tropical Model EER and COP >>



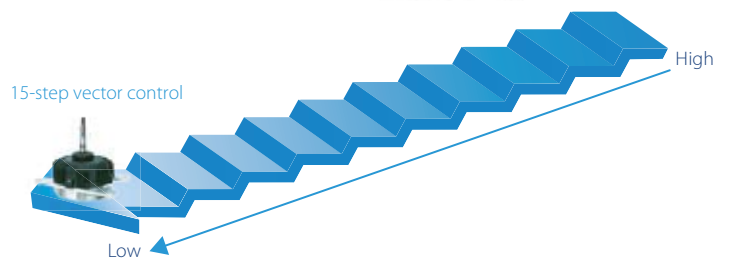
All DC Inverter Compressors >>

At the heart of the Super Plus Series outdoor unit lies a world-leading DC inverter scroll compressor. The compressor's innovative design and numerous high performance features reduce power consumption by 25%.



All DC Fan Motors >>

Fan speed is controlled according to the system pressure and system load, minimizing energy consumption.

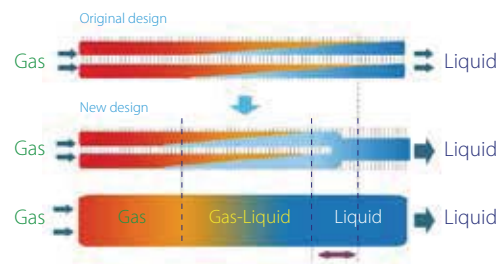
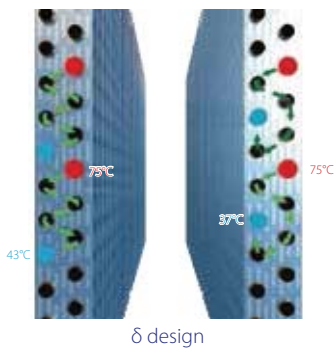


High Efficiency Heat Exchanger >>

Newly designed fins enlarge the heat exchange area and decrease air resistance, enhance heat exchange performance and save more energy.

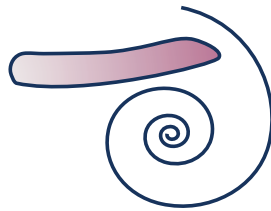
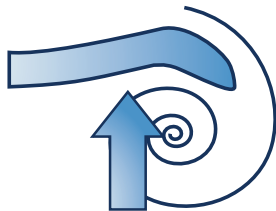
Hydrophilic fins and internally threaded copper pipes optimize heat exchange efficiency.

δ design increases the degree of liquefaction in the condenser and improves heat-exchange efficiency.



Newly Designed Fan >>

A new blade with sharp edges and a slight curve increases the airflow rate and lowers vibration and airflow resistance.

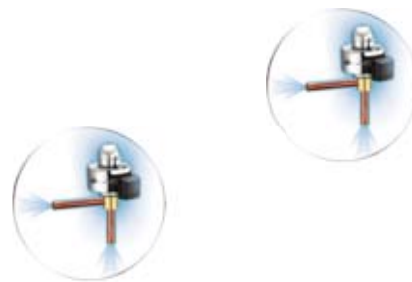


Precise Control >>

Multiple solenoid valves ensure precise temperature control, stable and efficient operation, and improved comfort.

Dual EXVs Control >>

Dual EXVs in one system, each EXV part achieves 480 Pulse rate to precisely adjust refrigerant flow.



Wide Application Range

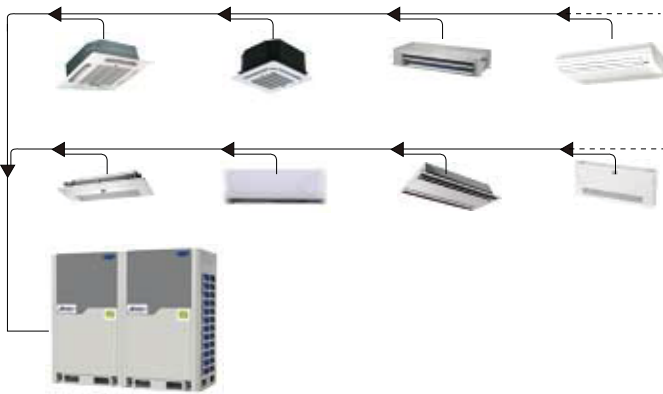
Wide Capacity Range >>

The Super Plus series has an extensive range of capacities, from 8HP to 88HP(max.72HP for tropical model combination), meeting all customer requirements from small to large buildings.



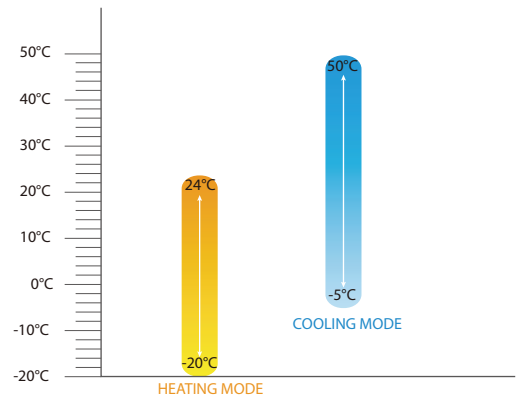
Wide Range of Indoor Units >>

Carrier provides 12 types and more than 100 models of VRF indoor units to meet varied customer requirements in a wide range of locations including shopping malls, hospitals, office buildings, hotels and airports.



Wide Operation Range >>

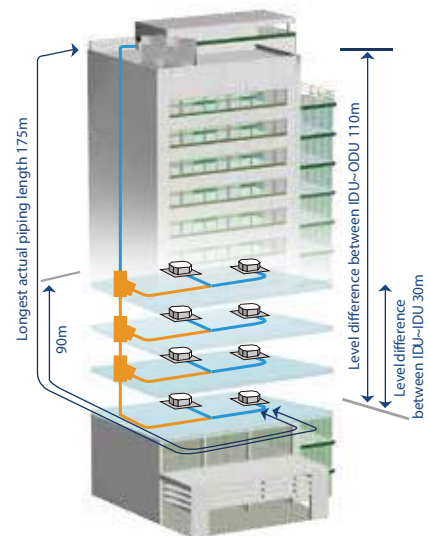
Super Plus Series operates stably under extreme conditions, ranging from minus 20° C to 50° C. (-20° C to 54°C for tropical model).



Long Piping Capability >>

Piping length	Capability
Total piping length	1000m
Longest length - actual (equivalent)	175m (200m)
Longest length after first branch	90m*
Largest height difference between indoor and outdoor units - ODU up (down)	90m (110m)
Largest height difference between indoor units	30m

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



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.



Backup >>

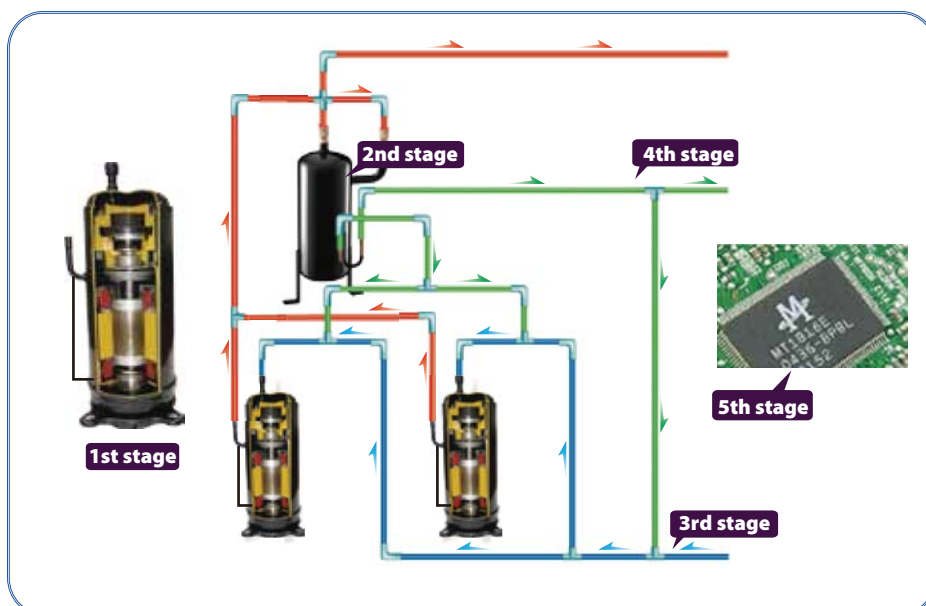
In a multi-unit system, if one module fails, the other modules provide backup so that the system can continue operating.



Precise Oil Control Technology >>

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

- The 1st stage:** Compressor internal oil separation.
- The 2nd stage:** 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.
- The 3rd stage:** Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
- The 4th stage:** Oil balance pipes among modules ensure even oil distribution among modules.
- The 5th stage:** Auto oil return program monitors the running time and system status to ensure reliable oil return.



Enhanced Comfort

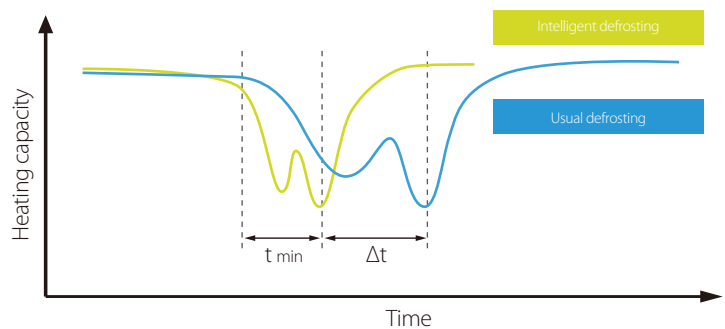
Night Silent Mode >>

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.



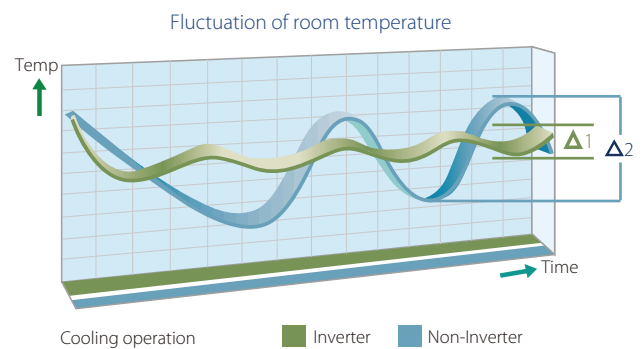
Intelligent Defrosting Technology >>

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 as four minutes.



Rapid Cooling or Heating >>

The DC inverter compressor reaches full capacity rapidly, providing quicker cooling or heating with lower levels of temperature fluctuation during the cooling/heating operation.



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 steel sheets, grills, coil fins, electric control box case and screws/bolts 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.

Motor >>

Standard products:
72h of neutral salt mist

Heavy anti-corrosion products:
240h of neutral salt mist



Painted Sheet Metal >>

Standard products:
500h of neutral salt mist
1000h of moisture and heating test
500h of light aging test

Heavy anti-corrosion products:
1000h of neutral salt mist
2000h of moisture and heating test
720h of light aging test



Screws / Bolts / Gaskets >>

Standard products:
300h of neutral salt mist

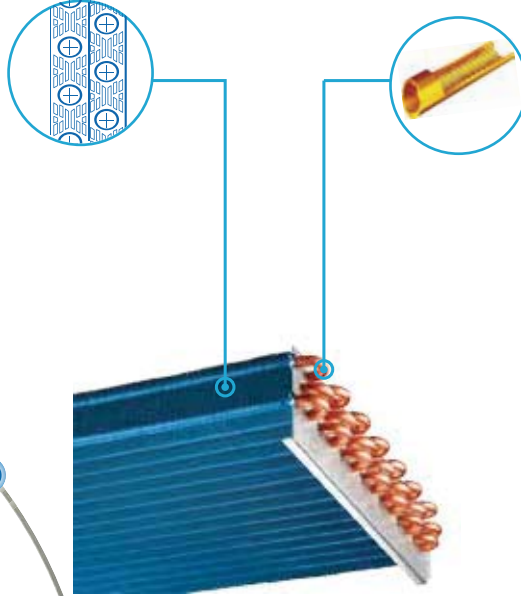
Heavy anti-corrosion products:
720h of neutral salt mist



Heat Exchanger Aluminum Foil >>

Standard products:
72h of neutral salt mist

Heavy anti-corrosion products:
1000h of neutral salt mist
140h of acid salt mist



Copper >>

Standard products:
24h of neutral salt mist

Heavy anti-corrosion products:
120h of neutral salt mist



Electric Control Box Case >>

Standard products:
96h of neutral salt mist

Heavy anti-corrosion products:
240h of neutral salt mist



Compressor / Motor Bolts >>

Standard products:
72h of neutral salt mist

Heavy anti-corrosion products:
168h of neutral salt mist

Specifications

380-415V 50(60)Hz



8-12HP

Model name			38VF008H119015	38VF010H119015	38VF012H119015	38VF014H119015	
Power supply		V/Ph/Hz	380-415/3/50(60)				
Cooling	Capacity	kW	25.2	28.0	33.5	40.0	
		kBtu/h	86.0	95.6	114.3	136.5	
	Power input	kW	5.36	6.22	7.79	9.30	
	EER		4.7	4.5	4.3	4.3	
Heating	Capacity	kW	27.0	31.5	37.5	45.0	
		kBtu/h	92.1	107.5	128.0	153.6	
	Power input	kW	4.82	5.94	7.65	9.38	
	COP		5.6	5.3	4.9	4.8	
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity				
	Max. quantity		13	16	20	23	
Compressor	Type		DC inverter				
	Model		E655DHD-65D2YG	E655DHD-65D2YG	E705DHD-72D2YG	E405DHD-42D2YG	
	Brand		Hitachi				
	Quantity		1	1	1	2	
	Crankcase heater	W	27.6×2	27.6×2	27.6×2	27.6×4	
	Refrigerant oil type		FVC68D				
	Refrigerant oil charge		ml(gal.)	500(0.132)	500(0.132)	500(0.132)	500(0.132)×2
	Fan motor	Type		DC motor			
Model		WZDK560-38G(B)					
Brand		Panasonic/Nidec					
Quantity		1	1	1	2		
Insulation class		E					
Safe class		IP23					
Input		W	580	580	580	360+290	
Output		W	465	465	465	290+230	
Static pressure		Pa(in. W.G.)	0-20(0-0.08) (default)				
		Pa(in. W.G.)	20-60(0.08-0.24) (customized)				
Fan	Material		Plastic				
	Type		Axial				
	Quantity		1	1	1	2	
Outdoor coil	Number of rows		2	2	3	2	
	TP(a) ×RP(b)	mm(in.)	Tube pitch x Row pitch : 22×19(7/8×3/4)				
	Fin spacing	mm(in.)	1.6(1/16)				
	Fin type		Hydrophilic aluminum				
	Tube OD	mm(in.)	Φ7.94(Φ5/16)				
	Tube type		Inner-grooved				
	Coil lgh × height	mm(in.)	1970×1232 (77-9/16×48-1/2)			2320×1232 (91-3/8×48-1/2)	
	Number of circuits		22				
Refrigerant	Type		R410A				
	Factory charging	kg(lbs.)	9(20)	9(20)	11(24)	13(29)	
Pipe connection	Liquid pipe	mm(in.)	Φ12.7(Φ1/2)	Φ12.7(Φ1/2)	Φ15.9(Φ5/8)	Φ15.9(Φ5/8)	
	Gas pipe	mm(in.)	Φ25.4(Φ1)	Φ25.4(Φ1)	Φ28.6(Φ1-1/8)	Φ31.8(Φ1-1/4)	
	Oil balance pipe	mm(in.)	Φ8(Φ5/16)				
Design pressure(High/Low)	MPa		4.4/2.6				
	PSI		640/380				
Air flow rate	m ³ /h	12000	12000	12000	14000		
Sound pressure level	dB(A)	58	59	60	62		
Net dimension (W×H×D)	mm	990×1635×790				1340×1635×790	
	inch	39×64-3/8×31-1/8				52-3/4×64-3/8×31-1/8	
Packing size (W×H×D)	mm	1055×1805×855				1405×1805×855	
	inch	41-1/2×71-1/16×33-5/8				55-3/8×71-1/16×33-5/8	
Net weight	kg(lbs.)	219(483)	219(483)	237(523)	297(655)		
Gross weight	kg(lbs.)	234(516)	234(516)	252(556)	315(695)		
Operating temperature range		°C(°F)	Cooling: -5~48(23~118.4); Heating: -20~24(-4~75.2)				

Notes:

- Indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Diameters given are those of the unit's stop valve.
- Sound pressure level is measured at a position 1m (3.28ft) in front of the unit and 1.3m (4.3ft) above the floor in a semi-anechoic chamber.
- The data in this catalogue may be changed without notice for further improvement on quality and performance.



14-22HP

Model name			38VF016H119015	38VF018H119015	38VF020H119015	38VF022H119015	
Power supply		V/Ph/Hz					
Cooling	Capacity	kW	45.0	50.0	56.0	61.5	
		kBtu/h	153.6	170.6	191.1	209.9	
	Power input	kW	10.98	12.82	14.51	16.44	
	EER		4.1	3.9	3.9	3.7	
Heating	Capacity	kW	50.0	56.0	63.0	69.0	
		kBtu/h	170.6	191.1	215.0	235.5	
	Power input	kW	10.87	13.18	15.29	17.12	
	COP		4.6	4.2	4.1	4.0	
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity				
	Max. quantity		26	29	33	36	
Compressor	Type		DC inverter				
	Model		E405DHD-42D2YG	E405DHD-36D2YG E705DHD-72D2YG	E705DHD-72D2YG	E705DHD-72D2YG	
	Brand		Hitachi				
	Quantity		2				
	Crankcase heater		W	27.6×4			
	Refrigerant oil type		FVC68D				
	Refrigerant oil charge		ml(gal.)	500(0.132)×2			
Fan motor	Type		DC motor				
	Model		WZDK560-38G(B)				
	Brand		Panasonic/Nidec				
	Quantity		2				
	Insulation class		E				
	Safe class		IP23				
	Input	W	360+290	520+440	550+430	550+430	
	Output	W	290+230	420+350	440+350	440+350	
Static pressure		Pa(in. W.G.)	0-20(0-0.08) (default)				
		Pa(in. W.G.)	20-60(0.08-0.24) (customized)				
Fan	Material		Plastic				
	Type		Axial				
	Quantity		2				
Outdoor coil	Number of rows		2	2	3	3	
	TP(a) ×RP(b)		mm(in.)				
	Fin spacing		Tube Pitch x Row pitch : 22×19(7/8×3/4)				
			1.6(1/16)				
	Fin type		Hydrophilic aluminum				
	Tube OD		mm(in.)				
	Tube type		Inner-grooved				
	Coil lgh x height		mm(in.)	2320×1232 (91-3/8×48-1/2)	2270×1232 (89-3/8×48-1/2)		
Number of circuits		22					
Refrigerant		Type		R410A			
Factory charging		kg(lbs.)	13(29)	13(29)	16(35)	16(35)	
Pipe connection	Liquid pipe	mm(in.)	Φ15.9(Φ5/8)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)	Φ19.1(Φ3/4)	
	Gas pipe	mm(in.)	Φ31.8(Φ1-1/4)	Φ31.8(Φ1-1/4)	Φ31.8(Φ1-1/4)	Φ31.8(Φ1-1/4)	
	Oil balance pipe	mm(in.)	Φ8(Φ5/16)				
Design pressure(High/Low)		MPa	4.4/2.6				
		PSI	640/380				
Air flow rate	m ³ /h	14000	16000	16000	16000		
Sound pressure level	dB(A)	62	63	63	63		
Net dimension (W×H×D)		mm	1340×1635×790				
		inch	52-3/4×64-3/8×31-1/8				
Packing size (W×H×D)		mm	1405×1805×855				
		inch	55-3/8×71-1/16×33-5/8				
Net weight	kg(lbs.)	297(655)	305(673)	340(750)	340(750)		
Gross weight	kg(lbs.)	315(695)	323(712)	358(790)	358(790)		
Operating temperature range		°C(°F)	Cooling: -5~48(23~118.4); Heating: -20~24(-4~75.2)				

Notes:

- Indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Diameters given are those of the unit's stop valve.
- Sound pressure level is measured at a position 1m (3.28ft) in front of the unit and 1.3m (4.3ft) above the floor in a semi-anechoic chamber.
- The data in this catalogue may be changed without notice for further improvement on quality and performance.

Specifications (Tropical models)

380-415V 50(60)Hz



Model name			38VF008H1 1901T	38VF010H1 1901T	38VF012H1 1901T
Power supply			380-415V/3Ph/50(60)Hz	380-415V/3Ph/50(60)Hz	380-415V/3Ph/50(60)Hz
Cooling (T1 / T3)	Capacity	kW	25.7 / 22.2	28.6 / 24.8	34.5 / 28.2
		kBtu/h	87.7 / 75.7	97.5 / 84.7	117.8 / 96.1
	Power input	kW	6.2 / 6.9	7.1 / 8.1	8.4 / 8.9
		W/W	4.18 / 3.21	4.00 / 3.07	4.13 / 3.16
EER	W/W	4.18 / 3.21	4.00 / 3.07	4.13 / 3.16	
	Btu/h.W	14.25 / 10.96	13.65 / 10.46	14.08 / 10.79	
Heating	Capacity	kW	27.0	31.5	37.5
		kBtu/h	92.1	107.5	128.0
	Power input	kW	6.2	7.8	9.2
		W/W	4.33	4.04	4.08
COP	W/W	4.33	4.04	4.08	
	Btu/h.W	14.25 / 10.96	13.65 / 10.46	14.08 / 10.79	
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity
	Max. quantity	16	18	22	
Compressor	Type	DC inverter / Scroll			DC inverter / Scroll
	Quantity	1	1	1	
Fan motor	Type	DC motor			DC motor
	Quantity	1	1	1	
	Static pressure	Pa	20	20	20
Refrigerant	Type	R410A			R410A
	Factory charging	kg	9	9	11
		kg	9	9	11
Pipe connections	Liquid pipe	mm (in.)	Φ12.7 (1/2)	Φ12.7 (1/2)	Φ15.9 (5/8)
	Gas pipe	mm (in.)	Φ22.2 (7/8)	Φ22.2 (7/8)	Φ28.6 (1-1/8)
	Oil balance pipe	mm (in.)	Φ6.35 (1/4)	Φ6.35 (1/4)	Φ6.35 (1/4)
Air flow rate	m ³ /h	12,000	12,000	12,000	
Sound pressure level	dB(A)	58	59	60	
Net dimension (WxHxD)	mm	990x1,635x790	990x1,635x790	990x1,635x790	
Packing size (WxHxD)	mm	1,055x1,805x855	1,055x1,805x855	1,055x1,805x855	
Net weight	kg	219	219	237	
Gross weight	kg	234	234	252	
Operating temperature range			Cooling: -5°C to 54°C; Heating: -20°C to 24°C		



Model name			38VF014H1 1901T	38VF016H1 1901T	38VF018H1 1901T
Power supply			380-415V/3Ph/50(60)Hz	380-415V/3Ph/50(60)Hz	380-415V/3Ph/50(60)Hz
Cooling (T1 / T3)	Capacity	kW	40.5 / 33.6	44.1 / 37.3	49.1 / 41.8
		kBtu/h	138.1 / 114.8	150.6 / 127.2	167.6 / 142.5
	Power input	kW	10.2 / 10.5	11.3 / 11.9	12.8 / 13.9
		W/W	3.98 / 3.21	3.92 / 3.13	3.85 / 3.00
EER	W/W	3.98 / 3.21	3.92 / 3.13	3.85 / 3.00	
	Btu/h.W	13.58 / 10.94	13.37 / 10.68	13.14 / 10.25	
Heating	Capacity	kW	45.0	50.0	56.0
		kBtu/h	153.5	170.6	191.1
	Power input	kW	11.1	12.6	14.0
		W/W	4.04	4.02	4.00
COP	W/W	4.04	4.02	4.00	
	Btu/h.W	13.58 / 10.94	13.37 / 10.68	13.14 / 10.25	
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity
	Max. quantity	26	30	34	
Compressor	Type	DC inverter / Scroll			DC inverter / Scroll
	Quantity	2	2	2	
Fan motor	Type	DC motor			DC motor
	Quantity	2	2	2	
	Static pressure	Pa	20	20	20
Refrigerant	Type	R410A			R410A
	Factory charging	kg	13	13	13
		kg	13	13	13
Pipe connections	Liquid pipe	mm (in.)	Φ15.9 (5/8)	Φ15.9 (5/8)	Φ19.1 (3/4)
	Gas pipe	mm (in.)	Φ25.4 (1)	Φ25.4 (1)	Φ31.8 (1-1/4)
	Oil balance pipe	mm (in.)	Φ6.35 (1/4)	Φ6.35 (1/4)	Φ6.35 (1/4)
Air flow rate	m ³ /h	14,000	14,000	16,000	
Sound pressure level	dB(A)	62	62	63	
Net dimension (WxHxD)	mm	1,340x1,635x790	1,340x1,635x790	1,340x1,635x790	
Packing size (WxHxD)	mm	1,405x1,805x855	1,405x1,805x855	1,405x1,805x855	
Net weight	inch	333	333	344	
Gross weight	kg	351	351	362	
Operating temperature range			Cooling: -5°C to 54°C; Heating: -20°C to 24°C		

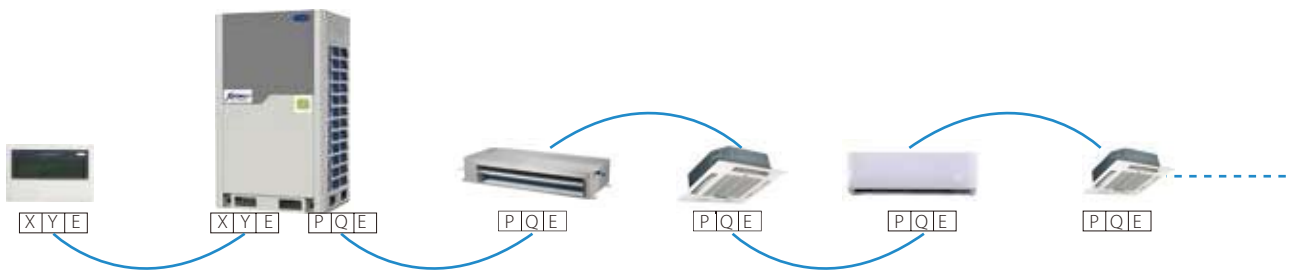
Notes:

1. Tested as per ISO 15042:2011. Power input value is outdoor unit power input to the equipment.
2. Capacities are based on the following conditions:
Cooling T1: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Piping length: Interconnecting piping length is 7.5m, level difference is zero.
Cooling T3: Indoor temperature 29°C DB/19°C WB; Outdoor temperature 46°C DB; Piping length: Interconnecting piping length is 7.5m, level difference is zero.
Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB; Piping length: Interconnecting piping length is 7.5m, level difference is zero.
3. Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
4. Pipe connection size is the stop valve's pipe diameter of the single-unit.
5. The data in this catalogue may be changed without notice for further improvement on quality and performance.

Easy Installation and Service

Simple Communication Wiring >>

Indoor centralized controller can be connected to either the indoor or the outdoor units.
A single set of wiring can be used for system and network communication, making installation quicker and easier.



Auto Addressing >>

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



Rotatable Electric Control Box >>

The newly designed rotating control box can be rotated up to 150 degrees to provide access to the pipeline system for inspection and maintenance without the need to remove the control box.



Easy Maintenance >>

Special features that increase ease of maintenance include a control box inspection window for viewing the system status, a self-diagnosis function that speeds fault analysis, and the positioning of the compressor adjacent to the casing, which simplifies inspection and enables valve or compressor parts to be replaced easily.





Indoor Units

Xpower VRF indoor unit



Fresh Air Processing Unit

100% fresh air supply



Ventilation

Heat recovery ventilator (HRV)



AHU Connection Kit

Connect to other brand AHU



Control Systems

Smart control systems

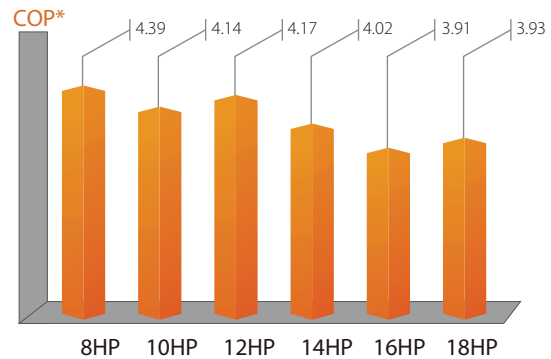
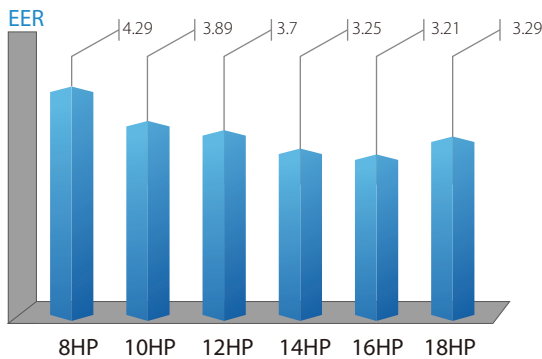


Xpower EcoK series Heat Pump/Cooling Only

- » DC inverter compressor
- » DC fan motor
- » Capacity up to 72HP
- » Connectable indoor units quantity up to 64
- » ESP up to 60Pa
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple communication wiring
- » Auto addressing
- » Easy maintenance

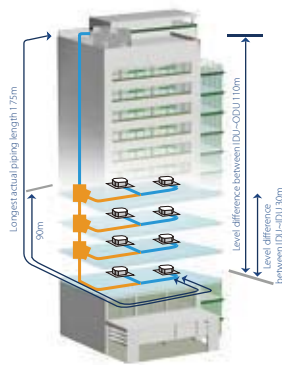
High EER and COP Values >>

The cooling EER is up to 4.29 and the heating COP is up to 4.39 in the 8HP category.



*COP values are only available for heat pump series.

Long Piping Length >>



Total piping length	1000m
Longest length actual (Equivalent)	175(200)m
Longest length after first branch	90*m
Level difference between indoor and outdoor units - ODU up (down)	70(110)m
Level difference between indoor units	30m

*The longest piping length is 40m standard. It can be extended to 90m. When the length is over 40m, please contact your local Carrier sales company for more information and restrictions.



VRF Ecok Series - Heat Pump/Cooling Only

Capacity(HP)	8		10		12		14		16		18	
Model (heat pump)38VR	008H1190K1		010H1190K1		012H1190K1		014H1190K1		016H1190K1		018H1190K1	
Model (cooling only)38VR	008C1190K0		010C1190K0		012C1190K0		014C1190K0		016C1190K0		018C1190K0	
Power supply	V/Ph/Hz		380-415/3/50									
Cooling	Capacity	kW	25.2	28.0	33.5	40.0	45.0	50.0				
	Power input	kW	5.88	7.20	9.05	12.31	14.02	15.20				
	EER		4.29	3.89	3.70	3.25	3.21	3.29				
Heating*	Capacity	kW	27.0	31.5	37.5	45.0	50.0	56.0				
	Power input	kW	6.15	7.61	8.99	11.19	12.79	14.25				
	COP		4.39	4.14	4.17	4.02	3.91	3.93				
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity										
	Max. quantity		13	16	20	23	26	29				
Compressor	Type	DC inverter+Fixed										
	Quantity		1	1	1+1	1+1	1+1	1+1				
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series										
	Quantity		1	1	1+1	1+1	1+1	1+1				
	Static pressure	Pa	20-40 (customized)		20-60 (customized)		0-20 (default)		20-40 (customized)			
Refrigerant	Type	R410A										
	Factory charging	kg	9	9	11	13	13	16				
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ19.1				
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8	Φ31.8	Φ31.8	Φ31.8				
	Oil balance pipe	mm	Φ6									
Air flow rate	m ³ /h	11500	11500	15100	15100	15250	15250					
Sound pressure level	dB(A)	57	57	59	60	60	61					
Net dimension (WxHxD)	mm	960x1615x765				1250x1615x765						
Packing size (WxHxD)	mm	1025x1790x830				1305x1790x820						
Net weight (Heat pump series)	kg	200	200	268	280	280	300					
Gross weight (Heat pump series)	kg	215	215	288	300	300	320					
Net weight (Cooling only series)	kg	198	198	268	280	280	300					
Gross weight (Cooling only series)	kg	213	213	288	300	300	320					
Operating temperature range	°C	Cooling: -5-48; Heating*: -20-24										

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

*heating is only available for heat pump series.



Indoor Units

Xpower VRF indoor unit



Ventilation

Heat recovery ventilator (HRV)



Control Systems

Smart control systems

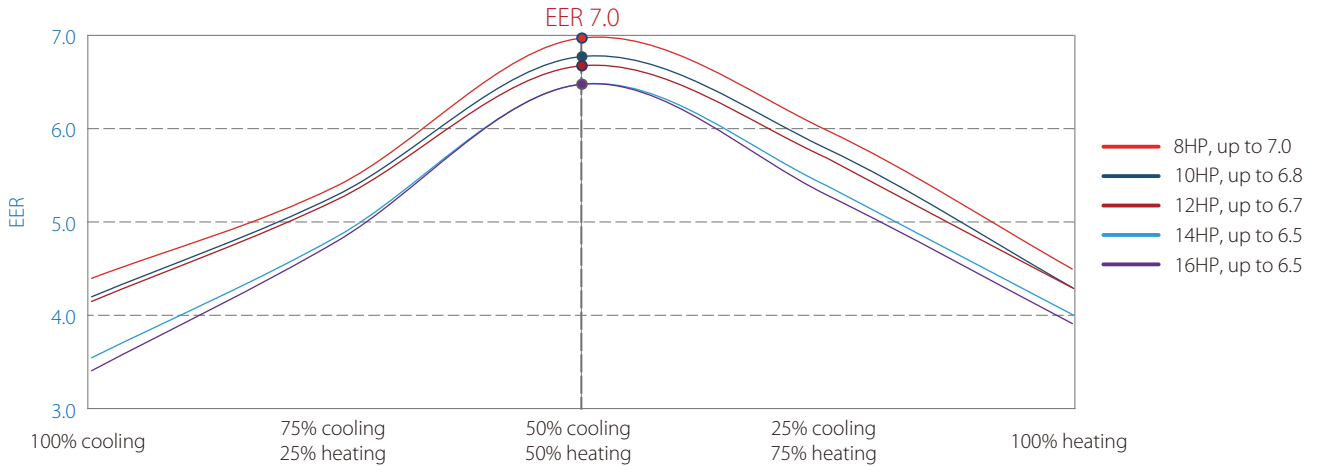


Xpower Heat Recovery Series

- » ALL DC inverter compressors
- » ALL DC fan motors
- » Capacity up to 64HP
- » Connectable indoor units quantity up to 64
- » ESP up to 60Pa
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Advanced silence technology
- » Simple communication wiring
- » Remote addressing
- » Easy maintenance

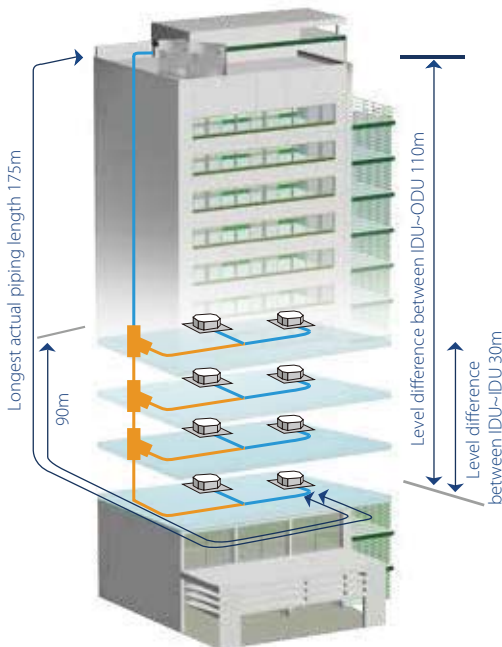
Heat Recovery, EER up to 7.0 >>

Heat recovery is achieved by diverting exhaust heat from indoor units in cooling mode to areas requiring heating, maximizing energy efficiency, reducing electricity costs and leading to high partload efficiencies (up to 7.0 in the 8HP category).



EER in simultaneous cooling and heating mode are based on the following condition:
 Outdoor temperature 7°CDB/6°CWB, indoor temperature 27°CDB/19°CWB for cooling, indoor temperature 20°CDB for heating.

Long Piping Length >>

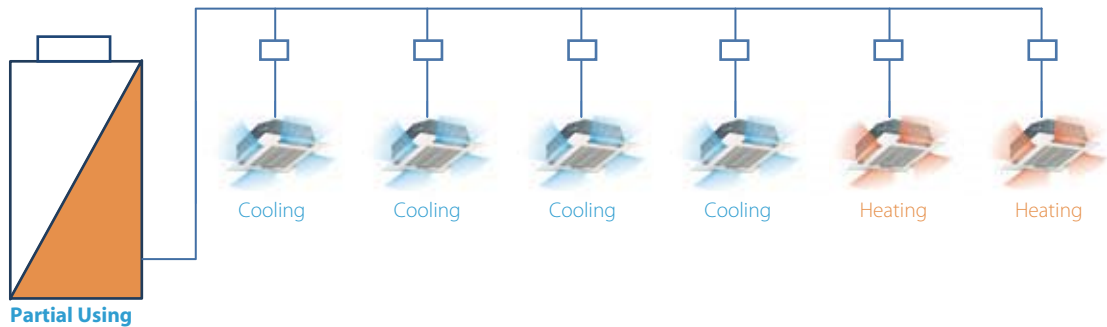


Total piping length	1000m
Longest length actual (Equivalent)	175(200)m
Longest length after first branch	90*m
Longest length from MS to its downstream indoor unit	40m
Level difference between indoor and outdoor units - ODU up (down)	70(110)m
Level difference between indoor units	30m

*The longest piping length is 40m standard. It can be extended to 90m. When the length is over 40m, please contact your local Carrier sales company for more information and restrictions.

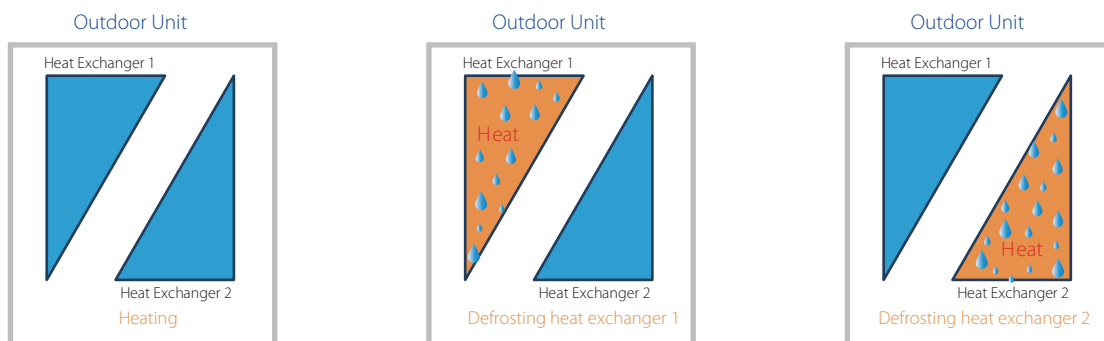
Adjustable Outdoor Heat Exchanger >>

Two parts condenser individual design, the unit can distribute a part of evaporator to be as condensing area according to the heating load requirement to improve the utilization rate of the condenser.



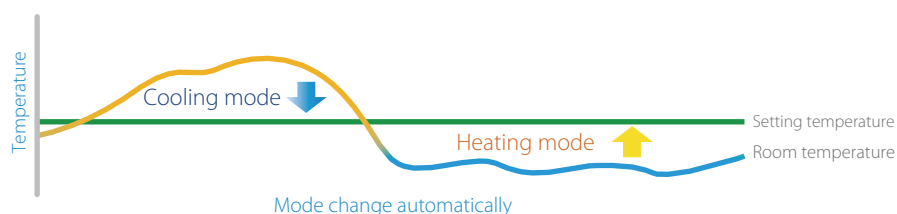
Continuous Heating During Defrost Operation >>

Each heat exchanger is defrosted by using heat transferred from one heat exchanger to the other in the outdoor unit. Defrost has no impact on the indoor unit on heating mode.



Auto Mode Control >>

Under the Auto Mode, the indoor unit can change the operation mode automatically, to keep the indoor temperature at a constant level.



Note: Auto Mode can be activated only with wired controller WR-120B-CM.

Innovative Mode Switch (MS) Box >>

Simultaneous cooling and heating achieved for new designed MS (Mode Switch) box.

- ❖ Low noise operation for precise control of multiple solenoid valves;
- ❖ Max. 24 indoor units connect to a MS box;
- ❖ Max. 56kW indoor units connect to a MS box;



One group pipe with max. 4 indoor units connection



Two group pipes with max. 8 indoor units connection

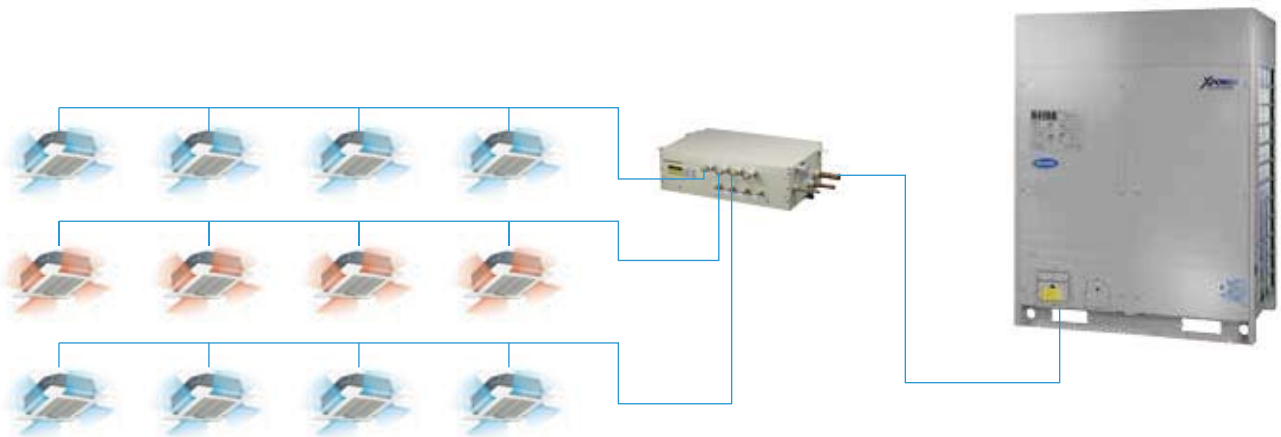


Four group pipes with max. 16 indoor units connection



Six group pipes with max. 24 indoor units connection

- ❖ Indoor units connected to a same MS can realize simultaneous cooling and heating operation.



Rotatable Control Box >>

Newly designed rotating control box can rotate in a wide angle. It is convenient for the inspection and maintenance of the pipeline system and greatly reduces the dismount time of the electric control box.



Xpower Heat Recovery Series



Capacity(HP)			8	10	12	14	16
Model 38VR			008T119010	010T119010	012T119010	014T119010	016T119010
Power supply		V/Ph/Hz	380-415/3/50				
Cooling	Capacity	kW	25.2	28	33.5	40	45
	Power input	kW	5.73	6.67	8.07	11.3	13.24
	EER		4.4	4.2	4.15	3.54	3.4
Heating	Capacity	kW	27	31.5	37.5	45	50
	Power input	kW	6	7.33	8.72	11.19	12.79
	COP		4.5	4.3	4.3	4.02	3.91
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity				
	Max. quantity		13	16	20	23	26
Compressor	Type		DC inverter				
	Quantity		1	1	1	2	2
Fan motor	Type		DC motor				
	Quantity		2	2	2	2	2
	Static pressure	Pa	20-40 (customized)		0-20 (default)	20-60 (customized)	
Refrigerant	Type		R410A				
	Factory charging	kg	10	10	10	13	13
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Low pressure gas pipe	mm	Φ22.2	Φ22.2	Φ25.4	Φ28.6	Φ28.6
	High pressure gas pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ22.2	Φ22.2
	High pressure gas balance pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Oil balance pipe	mm	Φ6	Φ6	Φ6	Φ6	Φ6
Air flow rate	m ³ /h	12000	12000	13000	15000	15000	
Sound pressure level	dB(A)	57	57	58	60	60	
Net dimension (W×H×D)	mm	1250×1615×765					
Packing size (W×H×D)	mm	1305×1790×820					
Net weight	kg	255	255	255	303	303	
Gross weight	kg	273	273	273	322	322	
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24					

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

Xpower Heat Recovery Series - MS Box



Model				MSFT-01C-CM	MSFT-02C-CM	MSFT-04C-CM	MSFT-06C-CM	MSFT-02E-CM	MSFT-04E-CM	
Applicable indoor units				All VRF indoor units except high static pressure duct				Only high static pressure duct		
Max. indoor unit groups				1	2	4	6	1	1	
Max. number of each group of indoor units				4	4	4	4	1	1	
Max. number of downstream indoor units				4	8	16	24	1	1	
Max. capacity of each group of indoor units			kW	16	16	16	16	20/25/28	40/45/56	
Max. total capacity of all downstream indoor units				kW	16	28	45	45	20-28	40-56
Piping connections	Connected to outdoor unit	Liquid pipe	mm	Φ9.53	Φ12.7	Φ15.9	Φ15.9	Φ12.7	Φ15.9	
		High pressure gas pipe	mm	Φ15.9	Φ19.1	Φ22.2	Φ22.2	Φ19.1	Φ22.2	
		Low pressure gas pipe	mm	Φ19.1	Φ25.4	Φ31.8	Φ31.8	Φ25.4	Φ31.8	
	Connected to indoor unit	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	
		Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	
		Sound pressure level	dB(A)	33	33	33	40	33	33	
Net dimension (W×H×D)			mm	630×225×600	630×225×600	960×225×600	960×225×600	630×225×600	960×225×600	
Packing size (W×H×D)			mm	725×325×685	725×325×685	1055×325×685	1055×325×685	725×325×685	1055×325×685	
Net weight			kg	18	19.5	31	35	19.5	31	
Gross weight			kg	25	27	40	44.5	27	40	

Note:

Sound values are measured in a semi-anechoic room, at a position 1m below the MS equipment in mode switch condition.

It is not recommended to install in a place where low noise performance is required.



Indoor Units

Xpower VRF indoor unit



Fresh Air Processing Unit

100% fresh air supply



Ventilation

Heat recovery ventilator (HRV)



AHU Connection Kit

Connect to other brand AHU



Control Systems

Smart control systems



Xpower Water Cooled VRF

Perfect combined
of water and
refrigerant system

- » DC inverter compressors
- » Capacity up to 36HP
- » Connectable indoor units quantity up to 59
- » Cycle duty operation
- » Backup operation
- » Precise oil control technology
- » Low noise operation
- » Simple communication wiring
- » Easy maintenance

Wide Range of Outdoor Units >>

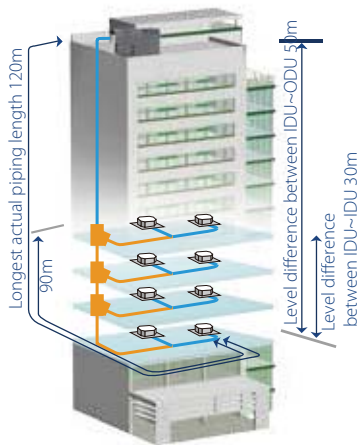
The Water Cooled Series capacity ranges from 8HP to 36HP, meets all customer requirements from small to large buildings.

8/10/12HP

Max. 3 units combination



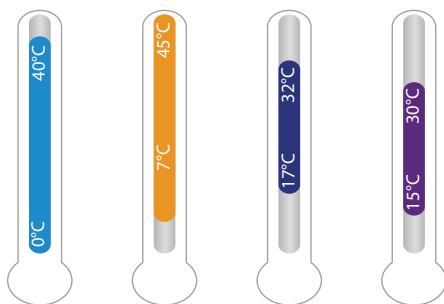
Long Piping Length >>



Total piping length	300m
Longest length actual (Equivalent)	120(150)m
Longest length after first branch	90*m
Level difference between indoor and outdoor units - ODU up (down)	50(40)m
Level difference between indoor units	30m

*The longest piping length is 40m standard. It can be extended to 90m. When the length is over 40m, please contact your local Carrier sales company for more information and restrictions.

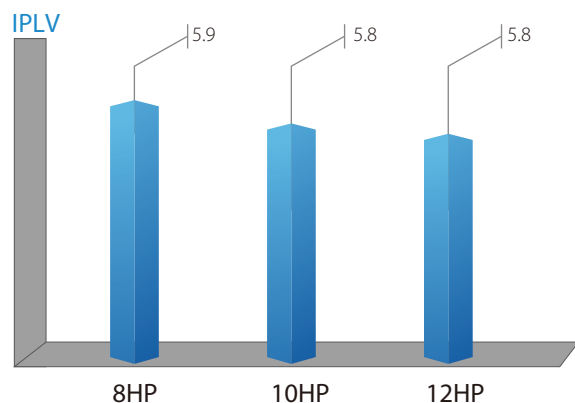
Wide Operation Temperature Range >>



- Main unit ambient temperature: 0°C~40°C
- Main unit water inlet temperature: 7°C~45°C
- Indoor temperature in cooling mode: 17°C~32°C
- Indoor temperature in heating mode: 15°C~30°C

High IPLV >>

Water cooled VRF Series System combines water system and refrigerant system perfectly. IPLV(C) reaches as high as 5.9. Compared with air-cooled VRF, energy saving is higher.



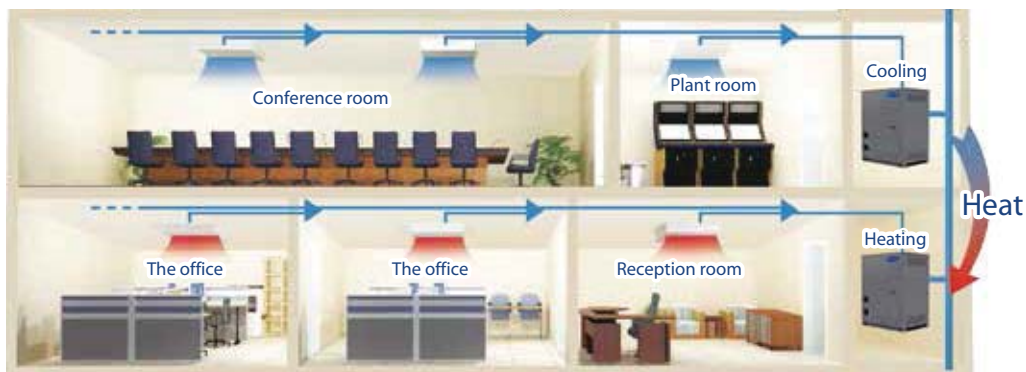
High Efficiency Double-Pipe Heat Exchanger >>

With the innovatively designed double-pipe heat exchanger, the water quality required is low. The water side has large circulation area, and it is not easily plugged, creating higher reliability and easier cleaning and maintenance.



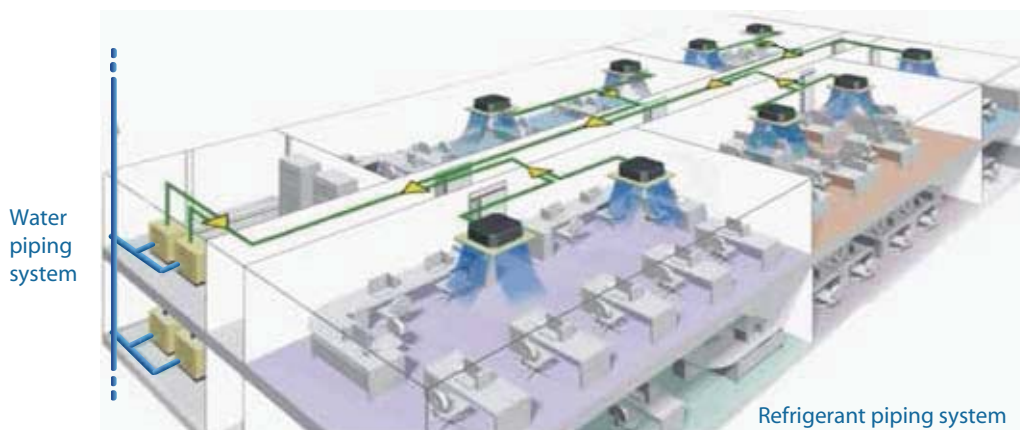
Water Side Heat Recovery Function >>

In modern large-scale buildings, the load between the internal and external areas is different. It may occur in some situations that both cooling and heating are required. The water cooled VRF Series not only can achieve meticulous system division in different areas but also can recover heat at the same time, significantly improving energy efficiency.



No Water Leakage >>

No water pipes installed indoors, no water leakage risks.



Xpower Water Cooled VRF



Capacity(HP)			8	10	12
Model 38VW			008H119010	010H119010	012H119010
Combined type			/	/	/
Power supply		V/Ph/Hz	380-415/3/50		
Cooling	Capacity	kW	25.2	28.0	33.5
	Power input	kW	4.80	6.10	8.00
	EER		5.25	4.59	4.19
Heating	Capacity	kW	27.0	31.5	37.5
	Power input	kW	4.45	5.83	7.80
	COP		6.07	5.40	4.81
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Max. quantity		13	16	19
Compressor	Type		DC inverter		
	Quantity		1	1	1
Heat exchanger	Type		Double-pipe heat exchanger		
	Rated water flow volume	m ³ /h	5.4	6	7.2
Refrigerant	Type		R410A		
	Factory charging	kg	2	2	2
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35
Sound pressure level		dB(A)	51	52	52
Net dimension (W×H×D)		mm	780×1000×550		
Packing size (W×H×D)		mm	845×1170×600		
Net weight		kg	146	146	147
Gross weight		kg	155	155	156
Operating temperature range		°C	Water inlet temp.: 7-45; ambient temp.: 0-40		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Main unit ambient temperature 35°C DB/24°C WB; Water inlet temperature 30°C;

Heating: Indoor temperature 20°C DB/15°C WB; Main unit ambient temperature 7°C DB/6°C WB; Water inlet temperature 20°C;

Piping length: Interconnecting piping length is 5m, level difference is zero.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1m above the floor.



Indoor Units

Xpower VRF indoor unit



Fresh Air Processing Unit

100% fresh air supply



Ventilation

Heat recovery ventilator (HRV)



AHU Connection Kit

Connect to other brand AHU



Control Systems

Smart control systems



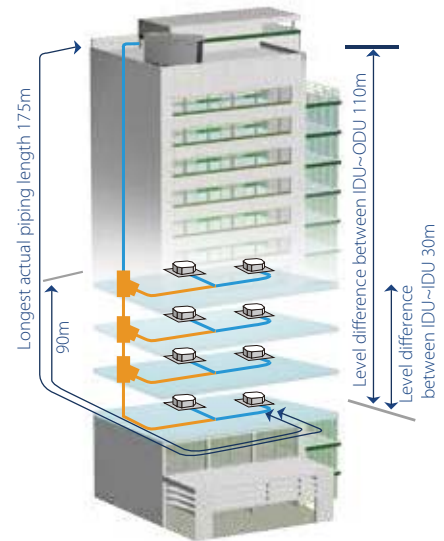
Xpower Individual Series

Optimized design
for middle-sized
buildings

- » DC inverter compressor
- » DC fan motor
- » Capacity up to 32HP
- » Connectable indoor units quantity up to 53
- » ESP up to 40Pa
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple communication wiring
- » Auto addressing
- » Easy maintenance

Long Piping Length >>

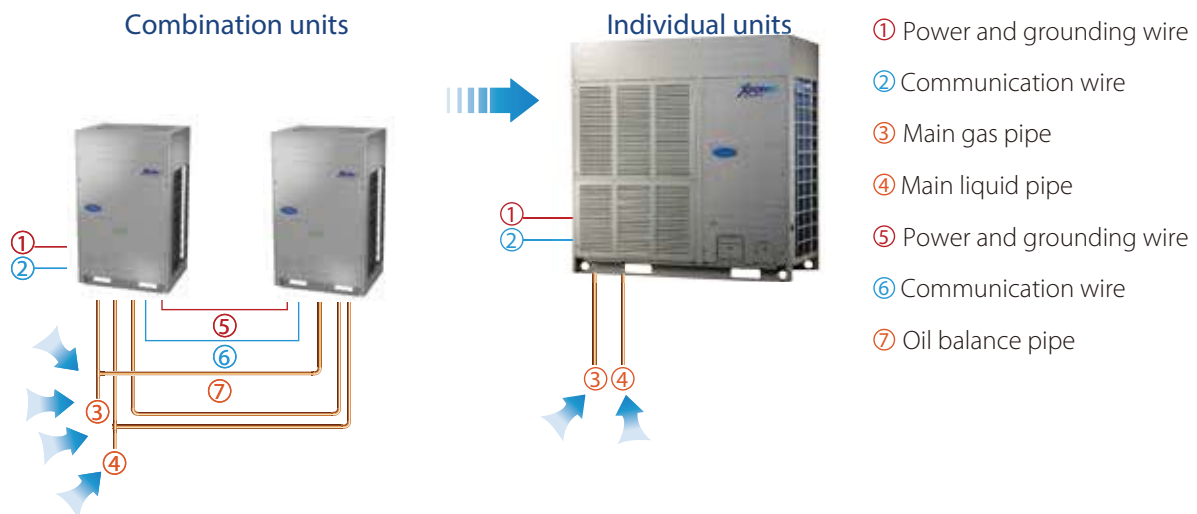
	Side air discharge		Top air discharge	
	20-26kW	40-45kW	56-67kW	73-90kW
Total piping length	120m	250m	1000m	1000m
Longest length actual (Equivalent)	60(70)m	100(120)m	175(200)m	165(190)m
Longest length after first branch	20m	40m	90*m	90*m
Longest length after nearest branch	15m	15m	40m	40m
Level difference between indoor and outdoor units - ODU up (down)	30(20)m	30(20)m	70(110)m	50(90)m
Level difference between indoor units	8m	8m	30m	30m



*The longest piping length is 40m standard. It can be extended to 90m. When the length is over 40m, please contact your local Carrier sales company for more information and restrictions.

Integrated Design, Easy Installation and Less Leakage Possibility >>

- ❖ Compare with combination units, the individual units don't need complicated piping and wiring at the jobsite. It eliminates the communication wire, power wire, oil balance pipe, and refrigerant distributors between units.
- ❖ There are more brazing joints in the combination system, therefore vapor and moisture can easily enter the system. Thanks to reduced joints in the individual system, it minimizes the possibility of moisture entering the system.



Xpower Individual Series



Capacity(HP)			7	8	10	12	14	16
Model 38VR			007H119010	008H119015	010H119015	012H119015	014H119012	016H119012
Power supply		V/Ph/Hz	380-415/3/50					
Cooling	Capacity	kW	20.0	22.4	26.0	33.5	40.0	45.0
	Power input	kW	6.1	6.8	7.6	9.85	11.9	13.6
	EER		3.28	3.29	3.42	3.4	3.35	3.32
Heating	Capacity	kW	22.0	24.5	28.5	33.5	45.0	50.0
	Power input	kW	6.1	5.9	6.8	8.38	11.1	12.7
	COP		3.61	4.15	4.19	4	4.05	3.93
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity					
	Max. quantity		10	11	12	13	14	15
Compressor	Type		DC inverter					
	Quantity		1	1	1	1	2	2
Fan motor	Type		DC motor			DC motor		
	Quantity		2	2	2	2	2	2
Refrigerant	Type		R410A					
	Factory charging	kg	4.8	6.2	6.2	7.5	9	12
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ19.1	Φ19.1	Φ22.2	Φ22.2	Φ22.2	Φ25.4
Air flow rate		m ³ /h	10999	10494	10494	10837	16575	16575
Sound pressure level		dB(A)	59	59	60	62	62	62
Net dimension (W×H×D)		mm	1120×1558×528			1120×1558×528	1360×1650×540	1460×1650×540
Packing size (W×H×D)		mm	1270×1720×565			1270×1720×565	1450×1785×560	1550×1785×560
Net weight		kg	137	146.5	147	157	240	275
Gross weight		kg	153	162.5	163	173	260	290
Operating temperature range		°C	Cooling: -15~48; Heating: -15~24			Cooling: -5~48; Heating: -15~24		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

Xpower Individual Series



Capacity(HP)			20	22	24
Model 38VR			020H119013	022H119013	024H119013
Power supply		V/Ph/Hz	380-415/3/50		
Cooling	Capacity	kW	56.0	61.5	67.0
	Power input	kW	17	18.8	20.8
	EER		3.3	3.27	3.22
Heating	Capacity	kW	63.0	69.0	75.0
	Power input	kW	16	17.9	19.8
	COP		3.94	3.86	3.79
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Max. quantity		33	36	39
Compressor	Type		DC inverter+Fixed		
	Quantity		1+2	1+2	1+2
Fan motor	Type		DC motor+AC motor		
	Quantity		1+1	1+1	1+1
	Max Static Pressure	Pa	0-20 (default)		
		Pa	20-40 (customized)		
Refrigerant	Type		R410A		
	Factory charging	kg	17	18.5	18.5
Pipe connections	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8
Air flow rate		m³/h	20000	23000	23000
Sound pressure level		dB(A)	62	63	63
Net dimension (W×H×D)		mm	1390×1615×765	1585×1615×765	
Packing size (W×H×D)		mm	1455×1790×830	1650×1810×840	
Net weight		kg	360	385	390
Gross weight		kg	375	400	405
Operating temperature range		°C	Cooling: -5~48; Heating: -20~24		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.



Capacity(HP)			26	28	30	32
Model 38VR			026H119013	028H119013	030H119013	032H119013
Power supply		V/Ph/Hz	380-415/3/50			
Cooling	Capacity	kW	73.0	78.5	85.0	90.0
	Power input	kW	22.3	24.2	28.3	28.5
	EER		3.27	3.24	3	3.16
Heating	Capacity	kW	81.5	87.5	95.0	100.0
	Power input	kW	20.6	22.4	26.0	26.5
	COP		3.96	3.91	3.65	3.77
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
	Max. quantity		43	46	50	53
Compressor	Type		DC inverter+Fixed			
	Quantity		1+3	1+3	1+4	1+4
Fan motor	Type		AC motor			
	Quantity		2+2	2+2	2+2	2+2
	Max Static Pressure	Pa	0-20 (default)			
		Pa	20-40 (customized)			
Refrigerant	Type		R410A			
	Factory charging	kg	27	27	27	27
Pipe connections	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Air flow rate		m ³ /h	33100	33100	33100	33100
Sound pressure level		dB(A)	64	64	65	65
Net dimension (W×H×D)		mm	2540×1615×765			
Packing size (W×H×D)		mm	2600×1800×825			
Net weight		kg	555		600	
Gross weight		kg	590		635	
Operating temperature range		°C	Cooling: -5~48; Heating: -15~24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.



Indoor Units

Xpower VRF indoor unit



Ventilation

Heat recovery ventilator (HRV)



Control Systems

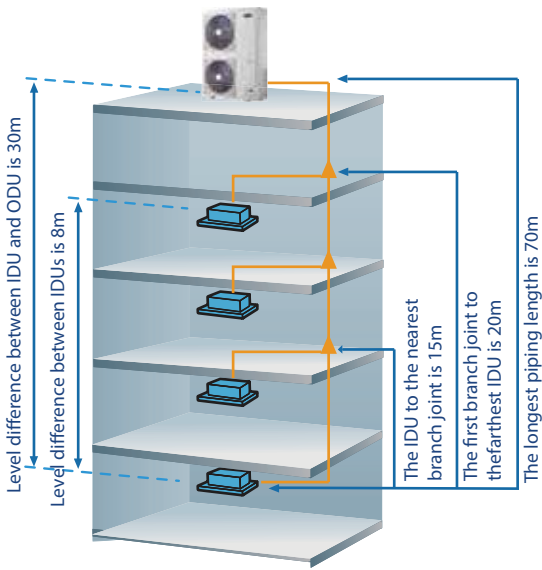
Smart control systems



Xpower Mini VRF

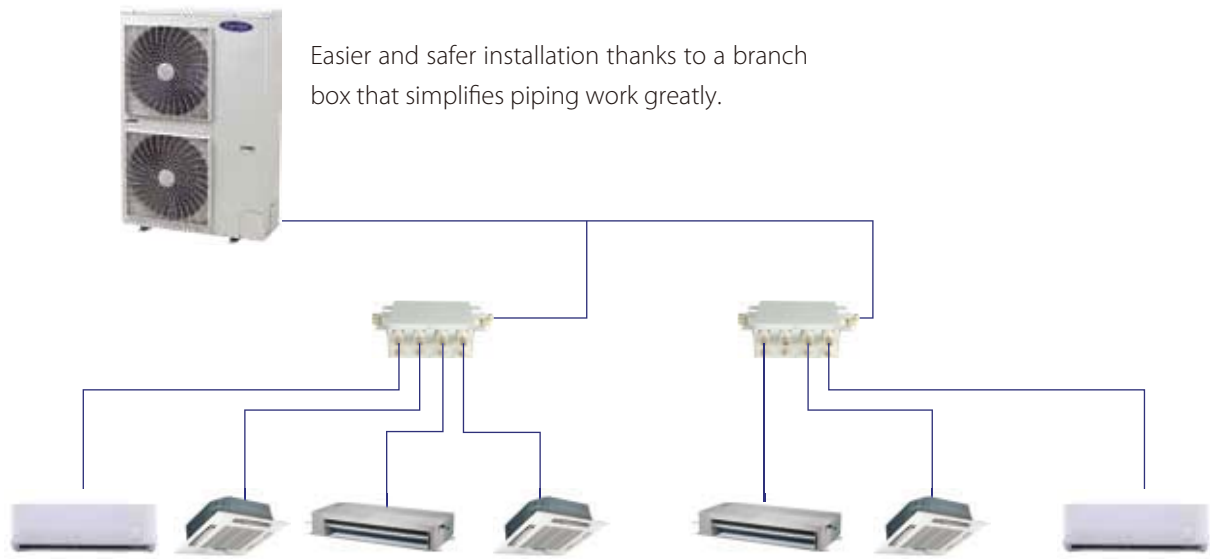
- » DC inverter compressor
- » DC fan motor
- » Capacity up to 18kW
- » Connectable indoor units quantity up to 9
- » Precise oil control technology
- » Advanced silence technology
- » Intelligent defrosting technology
- » Simple communication wiring
- » Auto addressing
- » Easy maintenance

Long Piping Length >>

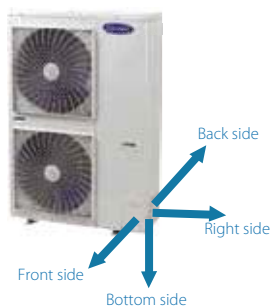


	8-10.5kW	12-18kW
Total piping length	100m	100m
Longest length actual (Equivalent)	45(50)m	60(70)m
Longest length after first branch	20m	20m
Level difference between indoor and outdoor units - ODU up (down)	30(20)m	30(20)m
Level difference between indoor units	8m	8m

More Convenient Piping Connector – Branch Box >>



Four-Way Piping Connection >>



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

Xpower Mini VRF



Capacity(HP)			3	4	4.5	5	6
Model 38VR			003H112010	004H112015	004H112010	005H112010	006H112010
Power supply		V/Ph/Hz	220-240/1/50				
Cooling	Capacity	kW	8.0	10.5	12.3	14	15.5
	Power input	kW	2.05	2.68	3.25	3.95	4.52
	EER		3.9	3.92	3.78	3.54	3.43
Heating	Capacity	kW	9.0	11.5	13.2	15.4	17
	Power input	kW	2.24	2.9	3.47	4.16	4.77
	COP		4.02	3.97	3.8	3.7	3.56
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity				
	Max. quantity		4	5	6	6	7
Compressor	Type		Rotary				
	Quantity		1	1	1	1	1
Fan motor	Type		DC Motor				
	Quantity		1	1	2	2	2
Refrigerant	Type		R410A				
	Factory charging	kg	2.95	2.95	3.3	3.9	3.9
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.1
Air flow rate		m ³ /h	5500	5500	6000	6000	6000
Sound pressure level		dB(A)	56	57	57	57	57
Net dimension (WxHxD)		mm	1075x966x396			900x1327x400	
Packing size (WxHxD)		mm	1120x1100x435			1030x1456x435	
Net weight		kg	62	74	95		100
Gross weight		kg	67	81	106		111
Operating temperature range		°C	Cooling: -5~48; Heating: -15~24				

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1m above the floor.

Xpower Mini VRF



Capacity(HP)			4.5	5	6	6.5
Model 38VR			004H119010	005H119010	006H119010	*007H11901S
Power supply		V/Ph/Hz	380-415/3/50			
Cooling	Capacity	kW	12.3	14	15.5	17.5
	Power input	kW	3.25	3.95	4.52	5.3
	EER			3.78	3.54	3.43
Heating	Capacity	kW	13.2	15.4	17	19
	Power input	kW	3.47	4.16	4.78	5
	COP			3.8	3.7	3.56
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity			
	Max. quantity		6	6	7	9
Compressor	Type		Rotary			
	Quantity		1	1	1	1
Fan motor	Type		DC motor			
	Quantity		2	2	2	2
Refrigerant	Type		R410A			
	Factory charging	kg	3.3	3.9	3.9	4.5
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
Air flow rate		m ³ /h	6000	6000	6000	6800
Sound pressure level		dB(A)	57	57	57	59
Net dimension (WxHxD)		mm	900x1327x400			
Packing size (WxHxD)		mm	1030x1456x435			
Net weight		kg	95		102	107
Gross weight		kg	106		113	118
Operating temperature range		°C	Cooling: -5~48; Heating: -15~24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1m above the floor.

* Please contact local Carrier sales company for more information and restrictions for this model 38VR007H11901S.

Indoor Units >>

One-way Cassette

Two-way Cassette

Four-way Cassette

Low/Medium Static Pressure Duct

Medium Static Pressure Duct

High Static Pressure Duct

Fresh Air Processing Unit

Wall-mounted

Ceiling & Floor

Floor Standing

Console

Cassette Units



One-way Cassette



Two-way Cassette



Compact Four-way Cassette



Four-way Cassette

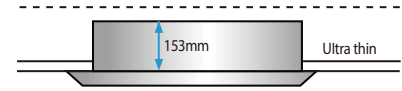


- Auto Restart Function
- Auto Addressing
- Fresh Air
- Auto Defrosting
- Easy-cleaning Panel
- Follow Me
- Anti-cold Air Function
- Built-in Drain Pump
- LED Display
- Built-in Filter
- Independent Dehumidification
- Timer
- Auto Swing
- Wired Controller

One-way Cassette

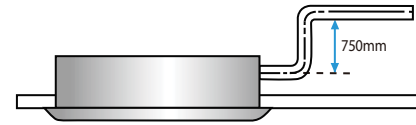
Only 153mm high >>

The slim, compact design make the One-way Cassette ideal for interiors with limited ceiling space. Capacities 1.8 to 3.6kw are just 153mm high whilst capacities 4.5 to 7.1kw are 189mm high.



High-lift Drain Pump >>

A drain pump with a 750mm pump head is fitted as standard.



Fresh Air Intake >>

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



Specifications

50Hz AC fan motors

Model	40VZ005H11200011	40VZ006H11200011	40VZ009H11200011	40VZ012H11200011	40VZ018H11200011	40VZ024H11200011	40VZ028H11200011		
Power supply	1-phase,220-240V,50Hz								
Capacity	Cooling	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	41	41	41	41	48	48	60
	Heating	W	41	41	41	41	43	44	55
Airflow rate(H/M/L)	m³/h	523/404/275	523/404/275	573/456/315	573/456/315	693/600/476	792/688/549	933/749/592	
Sound pressure level(H/M/L)	dB(A)	37/34/30	38/34/30	39/37/34	40/38/34	41/39/35	42/40/36	44/41/37	
Main body	Net dim.(WxHxD)	mm	1054x153x425	1054x153x425	1054x153x425	1054x153x425	1275x189x450	1275x189x450	1275x189x450
	Packing dim.(WxHxD)	mm	1155x245x490	1155x245x490	1155x245x490	1155x245x490	1370x295x505	1370x295x505	1370x295x505
	Net/gross weight	kg	12.5/16	12.5/16	13/16.5	13/16.5	18.5/22.8	18.8/23.1	19.5/23.8
Panel	Net dim.(WxHxD)	mm	1180x25x465	1180x25x465	1180x25x465	1180x25x465	1350x25x505	1350x25x505	1350x25x505
	Packing dim.(WxHxD)	mm	1232x107x517	1232x107x517	1232x107x517	1232x107x517	1410x95x560	1410x95x560	1410x95x560
	Net/gross weight	kg	3.5/5.2	3.5/5.2	3.5/5.2	3.5/5.2	4/5.4	4/5.4	4/5.4
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller	Wireless remote controller								

Notes:

1. Nominal capacities are based on the following conditions:

- Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.

2. Sound pressure level is measured 1.4m (4.59ft) below the unit in a semi-anechoic chamber.

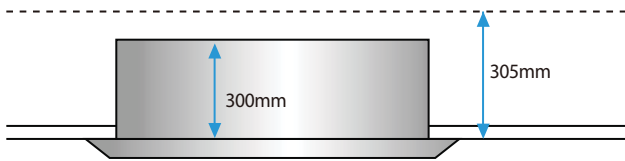
Two-way Cassette

Low Sound Level >>

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

Stylish Design and Slim Body >>

A stylish design and slim body make the Two-way Cassette suited to any room's decor and ambience. At only 300mm high, it can be installed in most ceiling spaces.



High-lift Drain Pump >>

A drain pump with a 750mm pump head is fitted as standard, simplifying installation of the drain piping. Higher pump heads are available as a customization option.

High Airflow >>

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



Specifications

50Hz AC fan motors

Model			40VT006H10200010	40VT009H10200010	40VT012H10200010	40VT018H10200010	40VT024H10200010	40VT028H10200010
Power supply			1-phase,220-240V,50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.6	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	57	57	60	92	108	154
	Heating	W	57	57	60	92	108	154
Airflow rate(H/M/L)	m ³ /h		654/530/410	654/530/410	725/591/458	850/670/550	980/800/670	1,200/1,000/770
Sound pressure level(H/M/L)	dB(A)		33/29/24	36/32/29	36/32/29	39/35/30	39/35/30	44/40/34
Main body	Net dim.(WxHxD)	mm	1172x299x591	1172x299x591	1172x299x591	1172x299x591	1172x299x591	1172x299x591
	Packing dim.(WxHxD)	mm	1355x400x675	1355x400x675	1355x400x675	1355x400x675	1355x400x675	1355x400x675
	Net/gross weight	kg	34/42.5	34/42.5	34/42.5	36/44.5	36/44.5	36/44.5
Panel	Net dim.(WxHxD)	mm	1430x53x680	1430x53x680	1430x53x680	1430x53x680	1430x53x680	1430x53x680
	Packing dim.(WxHxD)	mm	1525x130x765	1525x130x765	1525x130x765	1525x130x765	1525x130x765	1525x130x765
	Net/gross weight	kg	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15	10.5/15
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller					

Notes:

- Nominal capacities are based on the following conditions:
 - Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
 - Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Sound pressure level is measured 1.4m (4.59ft) below the unit in a semi-anechoic chamber.

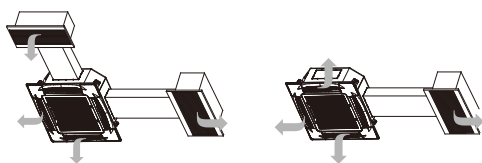
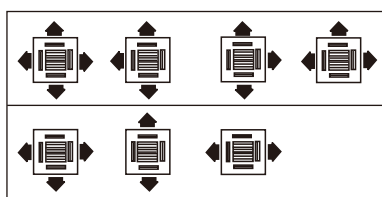
Four-way Cassette

Multiple Options >>

Three different versions of Four-way Cassette can be selected based on ceiling arrangements and user preference: Compact Four-way Cassette, Four-way Cassette and Silent Four-way Cassette

Multiple Airflow Patterns >>

Seven airflow patterns with up to four flow directions can be selected to suit the requirements of the installation site or the shape of the room. Sub-ducts may also be connected.



* Optional: four-way cassette and silent four-way cassette.

Fan Motor Options >>

Choose either AC or DC fan motors.

Sub Duct >>

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



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.



* Optional

High-lift Drain Pump >>

A drain pump with a 500mm pump head is fitted as standard to the Compact Four-way Cassette. Higher pump heads (of up to 600mm) are available as a customization option. On the Four-way Cassette and Silent Four-way Cassette a drain pump with a 750mm pump head is fitted as standard, simplifying installation of the drain piping.

Specifications

Compact Four-way Cassette (DC fan motors)

Model			40VX005H11500010	40VX006H11500010	40VX009H11500010	40VX012H11500010	40VX018H11500010
Power supply			1-phase, 220-240V, 50/60Hz				
Capacity	Cooling	kW	1.5	2.2	2.8	3.6	4.5
	Heating	kW	1.7	2.4	3.2	4.0	5.0
Power input	Cooling	W	14	15	16	21	21
	Heating	W	11	13	13	18	18
Airflow rate(H/M/L)		m ³ /h	526/449/364	526/449/364	576/503/405	604/516/400	604/516/400
Sound pressure level(H/M/L)		dB(A)	33.9/32.5/21.8	34.8/32.4/22.4	34.8/32.4/22.4	40.5/34.6/27.8	40.5/34.6/27.8
Sound power level(H/M/L)		dB(A)	45/44/34	46/44/35	46/44/35	52/47/41	52/47/41
Main body	Net dim.(WxHxD)	mm	570x260x570	570x260x570	570x260x570	570x260x570	570x260x570
	Packing dim.(WxHxD)	mm	675x285x675	675x285x675	675x285x675	675x285x675	675x285x675
	Net/gross weight	kg	16/22	16/22	16/22	17.5/23.5	17.5/23.5
Panel	Net dim.(WxHxD)	mm	647x50x647	647x50x647	647x50x647	647x50x647	647x50x647
	Packing dim.(WxHxD)	mm	715x123x715	715x123x715	715x123x715	715x123x715	715x123x715
	Net/gross weight	kg	2.5/4.5	2.5/4.5	2.5/4.5	2.5/4.5	2.5/4.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller				

Compact Four-way Cassette (50Hz AC fan motors)

Model			40VX006H11200010	40VX009H11200010	40VX012H11200010	40VX018H11200010
Power supply			1-phase,220-240V,50Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.4	3.2	4.0	5.0
Power input	Cooling	W	50	50	56	56
	Heating	W	50	50	56	56
Airflow rate(H/M/L)		m ³ /h	414/313/238	414/313/238	521/409/314	521/409/314
Sound pressure level(H/M/L)		dB(A)	35.8/33.4/23.4	35.8/33.4/23.4	41.5/35.6/28.8	41.5/35.6/28.8
Main body	Net dim.(W×H×D)	mm	570×260×570	570×260×570	570×260×570	570×260×570
	Packing dim.(W×H×D)	mm	675×285×675	675×285×675	675×285×675	675×285×675
	Net/gross weight	kg	16/20	16/20	18/22	18/22
Panel	Net dim.(W×H×D)	mm	647×50×647	647×50×647	647×50×647	647×50×647
	Packing dim.(W×H×D)	mm	715×123×715	715×123×715	715×123×715	715×123×715
	Net/gross weight	kg	2.5/4.5	2.5/4.5	2.5/4.5	2.5/4.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller			

Four-way Cassette (DC fan motors)

Model			40VK009H11500010	40VK012H11500010	40VK018H11500010	40VK024H11500010	40VK028H11500010
Power supply			1-phase,220-240V,50/60Hz				
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
	Heating	kW	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	25	25	31	31	46
	Heating	W	25	25	31	31	46
Airflow rate(H/M/L)		m ³ /h	982/832/677	982/832/677	1029/857/704	1029/857/704	1200/996/748
Sound pressure level(H/M/L)		dB(A)	42/37/32	42/37/32	43/38/34	43/38/34	45/39/34
Sound power level(H/M/L)		dB(A)	53/49/45	53/49/45	54/50/47	54/50/47	56/51/47
Main body	Net dim.(W×H×D)	mm	904×230×840	904×230×840	904×230×840	904×230×840	904×230×840
	Packing dim.(W×H×D)	mm	955×260×955	955×260×955	955×260×955	955×260×955	955×260×955
	Net/gross weight	kg	21.8/27.6	21.8/27.6	24/29.5	24/29.5	24/29.5
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Packing dim.(W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035
	Net/gross weight	kg	5/8	5/8	5/8	5/8	5/8
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

Model			40VK032H11500010	40VK036H11500010	40VK040H11500010	40VK048H11500010	40VK056H11500010
Power supply			1-phase,220-240V,50/60Hz				
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	14.0
	Heating	kW	9.0	10.0	11.1	12.5	15.0
Power input	Cooling	W	48	75	75	75	94
	Heating	W	48	75	75	75	94
Airflow rate(H/M/L)		m ³ /h	1264/1055/811	1596/1239/1034	1596/1239/1034	1596/1239/1034	1727/1426/1224
Sound pressure level(H/M/L)		dB(A)	46/40/35	47/41/36	47/41/36	47/41/36	50/45/35
Sound power level(H/M/L)		dB(A)	57/52/48	58/53/49	58/53/49	58/53/49	61/57/48
Main body	Net dim.(W×H×D)	mm	904×230×840	904×300×840	904×300×840	904×300×840	904×300×840
	Packing dim.(W×H×D)	mm	955×260×955	955×330×955	955×330×955	955×330×955	955×330×955
	Net/gross weight	kg	24/29.5	27.4/33.2	27.4/33.2	27.4/33.2	30/35.8
Panel	Net dim.(W×H×D)	mm	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950	950×54.5×950
	Packing dim.(W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035	1035×90×1035
	Net/gross weight	kg	5/8	5/8	5/8	5/8	5/8
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

Four-way Cassette (EXV built-at side, 50Hz AC fan motors)

Model			40VK009H11200010	40VK012H11200010	40VK018H11200010	40VK024H11200010	40VK028H11200010
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
	Heating	kW	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	65	65	75	75	82
	Heating	W	65	65	75	75	82
Airflow rate(H/M/L)		m ³ /h	847/766/640	847/766/640	864/755/658	864/755/658	1,157/955/749
Sound pressure level(H/M/L)		dB(A)	42/38/35	42/38/35	42/38/35	42/38/35	45/42/39
Main body	Net dim.(WxHxD)	mm	904x230x840	904x230x840	904x230x840	904x230x840	904x230x840
	Packing dim.(WxHxD)	mm	955x260x955	955x260x955	955x260x955	955x260x955	955x260x955
	Net/gross weight	kg	24/28	24/28	26/30	26/30	26/30
Panel	Net dim.(WxHxD)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Packing dim.(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

Model			40VK032H11200010	40VK036H11200010	40VK040H11200010	40VK048H11200010	40VK056H11200010
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	14.0
	Heating	kW	9.0	10.0	11.1	12.5	15.0
Power input	Cooling	W	97	160	160	160	170
	Heating	W	97	160	160	160	170
Airflow rate(H/M/L)		m ³ /h	1236/973/729	1540/1300/1120	1540/1300/1120	1540/1300/1120	1800/1500/1280
Sound pressure level(H/M/L)		dB(A)	45/42/39	48/45/43	48/45/43	48/45/43	50/47/44
Main body	Net dim.(WxHxD)	mm	904x230x840	904x300x840	904x300x840	904x300x840	904x300x840
	Packing dim.(WxHxD)	mm	955x260x955	955x330x955	955x330x955	955x330x955	955x330x955
	Net/gross weight	kg	26/30	32/37	32/37	32/37	32/37
Panel	Net dim.(WxHxD)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Packing dim.(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

Four-way Cassette (EXV built-in, 50Hz AC fan motors)

Model			40VK009H11200011	40VK012H11200011	40VK018H11200011	40VK024H11200011	40VK028H11200011
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
	Heating	kW	3.2	4.0	5.0	6.3	8.0
Power input	Cooling	W	80	80	88	88	88
	Heating	W	80	80	88	88	88
Airflow rate(H/M/L)		m ³ /h	764/638//554	764/638//554	905/740//651	905/740//651	950/767//663
Sound pressure level(H/M/L)		dB(A)	32/31/30	32/31/30	36/34/33	36/34/33	38/36/35
Main body	Net dim.(WxHxD)	mm	840x230x840	840x230x840	840x230x840	840x230x840	840x230x840
	Packing dim.(WxHxD)	mm	955x260x955	955x260x955	955x260x955	955x260x955	955x260x955
	Net/gross weight	kg	21.5/26.7	21.5/26.7	23.7/28.9	23.7/28.9	23.7/28.9
Panel	Net dim.(WxHxD)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Packing dim.(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

Model			40VK032H11200011	40VK036H11200011	40VK040H11200011	40VK048H11200011	40VK056H11200011
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	14.0
	Heating	kW	9.0	10.0	11.1	12.5	15.0
Power input	Cooling	W	110	140	165	165	176
	Heating	W	110	140	165	165	176
Airflow rate(H/M/L)		m ³ /h	1200/1021/789	1332/1129/908	1651/1304/1127	1651/1304/1127	1658/1335/1130
Sound pressure level(H/M/L)		dB(A)	42/39/37	43/39/38	45/42/40	45/42/40	46/41/39
Main body	Net dim.(WxHxD)	mm	840x230x840	840x300x840	840x300x840	840x300x840	840x300x840
	Packing dim.(WxHxD)	mm	955x260x955	955x330x955	955x330x955	955x330x955	955x330x955
	Net/gross weight	kg	23.7/28.9	28.7/34.1	28.7/34.1	28.7/34.1	30.9/36.3
Panel	Net dim.(WxHxD)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Packing dim.(WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
	Net/gross weight	kg	6/9	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller				

Notes:

- Nominal capacities are based on the following conditions:
 - Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
 - Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Sound pressure level is measured 1.4m (4.59ft) below the unit in a semi-anechoic chamber.

High Efficiency Four-way Cassette (DC fan motors)

Model			40VK005H1120001T	40VK006H1120001T	40VK009H1120001T	40VK012H1120001T
Power supply			1Ph, 220-240V, 50Hz/60Hz			
Capacity	Cooling	kW	1.8	2.2	2.8	3.6
	Heating	kW	2.2	2.6	3.2	4.0
Power input	Cooling	W	40	40	66	103
	Heating	W	41	41	67	103
Airflow rate (H)	m ³ /h		1,000	1,000	1,100	1,200
Sound pressure level (H/M/L)	dB(A)		35/31/28	35/31/28	37/33/28	38/34/29
Main body	Net Dim. (WxHxD)	mm	840x300x840	840x300x840	840x300x840	840x300x840
	Packing Dim. (WxHxD)	mm	955x330x955	955x330x955	955x330x955	955x330x955
	Net/gross weight	kg	32/38	32/38	32/38	32/38
Panel	Net Dim. (WxHxD)	mm	950x46x950	950x46x950	950x46x950	950x46x950
	Packing Dim. (WxHxD)	mm	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035
	Net/gross weight	kg	6/9	6/9	6/9	6/9
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless remote controller			

Model			40VK018H1120001T	40VK024H1120001T	40VK028H1120001T	
Power supply			1Ph, 220-240V, 50Hz			
Capacity	Cooling	kW	4.5	5.6	7.1	
	Heating	kW	5.0	6.3	8.0	
Power input	Cooling	W	120	138	150	
	Heating	W	124	143	155	
Airflow rate (H)	m ³ /h		1,500	1,600	1,800	
Sound pressure level (H/M/L)	dB(A)		39/35/31	40/36/33	41/39/37	
Main body	Net Dim. (WxHxD)	mm	840x300x840	840x300x840	840x300x840	
	Packing Dim. (WxHxD)	mm	955x330x955	955x330x955	955x330x955	
	Net/gross weight	kg	32/38	32/38	32/38	
Panel	Net Dim. (WxHxD)	mm	950x46x950	950x46x950	950x46x950	
	Packing Dim. (WxHxD)	mm	1,035x90x1,035	1,035x90x1,035	1,035x90x1,035	
	Net/gross weight	kg	6/9	6/9	6/9	
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	
Standard controller			Wireless remote controller			

Notes:

- Nominal cooling capacities are based on the following conditions: return air temperature: 27°C DB, 19°C WB, outdoor temperature: 35°C DB, equivalent ref. piping: 8m (horizontal).
- Nominal heating capacities are based on the following conditions: return air temperature: 20°C DB, outdoor temperature: 7°C DB, 6°C WB, equivalent ref. piping: 8m (horizontal).
- Sound Level is measured 1.4m below the unit.

Duct Units

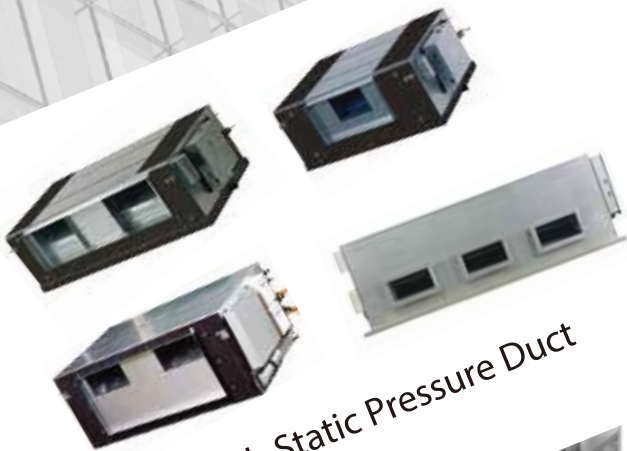


Low/Medium Static Pressure Duct

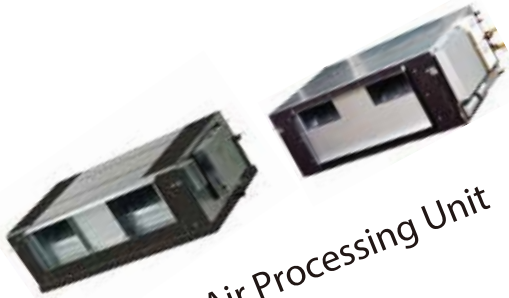


Medium Static Pressure Duct





High Static Pressure Duct

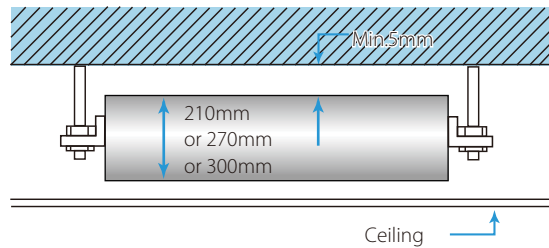


Fresh Air Processing Unit

Low/Medium Static Pressure Duct (1.5-7.1kW) Medium Static Pressure Duct (8-14kW)

Compact Design >>

Capacities 2.2 to 7.1kW are just 210mm high whilst Capacities 8 to 11.2kW are 270mm high and model 140 is 300mm high.



Fan Motor Options >>

Choose either AC or DC fan motors.

High-lift Drain Pump >>

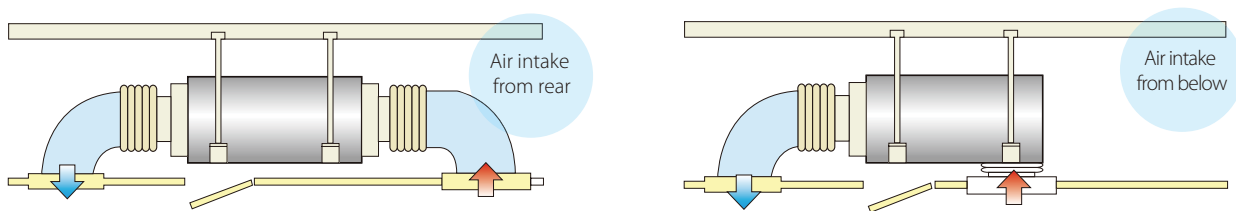
A drain pump with a 750mm pump head is fitted as standard, simplifying installation of the drain piping.

Easy Maintenance Access, Flexible Control >>

As a customization option, for ease of access the electric control box can be separated from the unit by up to 1m. Functional ports including remote on/off dry contact and 220V alarm signal output are included as standard, providing control flexibility.

Flexibility >>

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.



- 
Auto Restart Function
- 
Auto Addressing
- 
Fresh Air
- 
Auto Defrosting
- 
Built-in Filter
- 
Follow Me
- 
Anti-cold Air Function
- 
Built-in Drain Pump
- 
Timer
- 
Independent Dehumidification
- 
Wired Controller
- 
Super High Air Flow

Specifications

50Hz AC fan motors

Model			42VD006H112013011	42VD009H112013011	42VD012H112013011	42VD018H112013011	42VD024H112013011
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating	kW	2.6	3.2	4.0	5.0	6.3
Power input	Cooling	W	57	57	61	98	103
	Heating	W	57	57	61	98	103
Airflow rate(H/M/L)		m ³ /h	538/456/375	538/456/375	597/514/429	811/684/575	811/684/575
External static pressure(Min/Std/Max)		Pa	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30
Sound pressure level(H/M/L)		dB(A)	36/35/32	37/35/32	38.6/37.5/33.8	39/37.9/34	39/37.9/34
Net dimension(WxHxD)		mm	780x210x500	780x210x500	780x210x500	1000x210x500	1000x210x500
Packing dimension(WxHxD)		mm	870x285x525	870x285x525	870x285x525	1115x285x525	1115x285x525
Net/gross weight		kg	17.5/20	17.5/20	17.5/20	22.5/26	22.5/26
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller				

Model			42VD028H112013011	42VD032H112003010	42VD036H112003010	42VD048H112003010	42VD054H112003010
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	7.1	8.0	9.0	11.2	14.0
	Heating	kW	8.0	9.0	10.0	12.5	15.5
Power input	Cooling	W	140	198	200	313	274
	Heating	W	140	198	200	313	274
Airflow rate(H/M/L)		m ³ /h	1029/934/781	1345/1165/1013	1345/1165/1013	1800/1556/1400	1905/1636/1400
External static pressure(Min/Std/Max)		Pa	0/10/30	10/20/50	10/20/50	10/40/80	10/40/100
Sound pressure level(H/M/L)		dB(A)	41.4/39/35	45.4/39.8/37	45.4/39.8/37	48.0/41.9/38	47.7/43.2/39.0
Net dimension(WxHxD)		mm	1220x210x500	1230x270x775	1230x270x775	1230x270x775	1290x300x865
Packing dimension(WxHxD)		mm	1335x285x525	1355x350x795	1355x350x795	1355x350x795	1400x375x925
Net/gross weight		kg	28/31.5	38/46.5	40/48	40/48	49/58
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller				

Notes:

1. Nominal capacities are based on the following conditions:

- Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.

2. Sound pressure level is measured 1.4m (4.59ft) below the unit in a semi-anechoic chamber.

3. External static pressure is based on high speed indoor airflow.

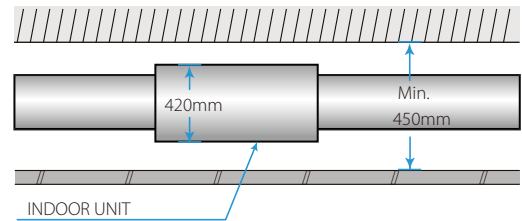
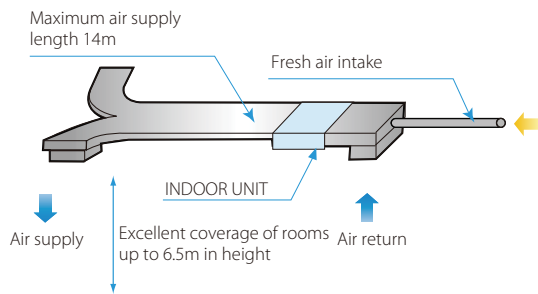
High Static Pressure Duct

Fan Motor Options >>

Choose either AC or DC fan motors.

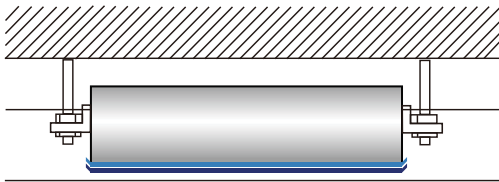
Flexible Duct Design >>

The High Static Pressure Duct indoor unit offers external static pressures of up to 196Pa (Capacities 7.1 to 16kW) or 280Pa (Capacities 20 to 56kW), allowing air supply duct lengths of up to 14m at a height of 6.5m. With a height of just 420mm (Capacities 7.1 to 16kW), only 450mm of ceiling space is required.



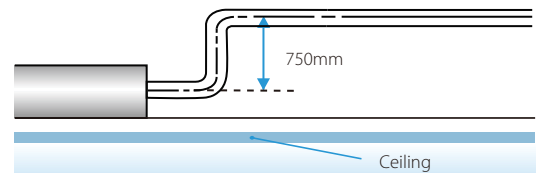
Double-skin Drainage Pan >>

A double-skin drainage pan provides double protection for ceilings (Capacities 7.1 to 16kW and 40 to 56kW).



Drain Pump >>

A drain pump with a 750mm pump head is available as a customization option (Capacities 7.1 to 16kW).





Easy Installation >>

Flanges for air inlet/outlet ducts are fitted as standard on the High Static Pressure Duct. On Capacities 7 to 16kW, the expansion valve is fitted inside the unit, requiring no extra connection.

Easy Maintenance Access, Flexible Control >>

The wireless remote controller is provided as standard and the wired remote controller is available as a customization option. Functional ports including remote on/off dry contact are included as standard, providing additional control flexibility. For ease of installation, the electric control box's display board is factory-fitted and the filter can be accessed either from the rear or from below.

- 
Auto Restart
Function
- 
Auto
Addressing
- 
Independent
Dehumidification
- 
Auto
Defrosting
- 
Built-in
Filter
- 
Follow
Me
- 
Anti-cold Air
Function
- 
Wired
Controller
- 
Timer
- 
Built-in Drain
Pump

*Filter is standard for 7.1 to 28kw models.

Specifications

50Hz AC fan motors

Model			42VD028H112011010	42VD032H112011010	42VD036H112011010	42VD048H112011010	42VD054H112011010	42VD055H112011010
Power supply			1-phase,220-240V,50Hz					
Capacity	Cooling	kW	7.1	8.0	9.0	11.2	14.0	16.0
	Heating	kW	8.0	9.0	10.0	12.5	16.0	17.0
Power input	Cooling	W	263	263	423	524	724	940
	Heating	W	263	263	423	524	724	940
Airflow rate(H/M/L)	m ³ /h		1443/1361/1218	1416/1338/1220	1951/1741/1518	2116/1936/1520	3000/2618/2226	3620/3044/2744
External static pressure(Min/Std/Max)	Pa		25/25/196	37/37/196	37/37/196	50/50/196	50/50/196	50/50/196
Sound pressure level(H/M/L)	dB(A)		48/46/44	48/46/44.5	52/49/47	52/49/47	53/50/48	54/52/50
Net dimension(WxHxD)	mm		952x420x690	952x420x690	952x420x690	952x420x690	1300x420x690	1300x420x690
Packing dimension(WxHxD)	mm		1090x440x768	1090x440x768	1090x440x768	1090x440x768	1436x450x768	1436x450x768
Net/gross weight	kg		45/50	45/50	46.5/52.4	50.6/56	68/70	70/77.5
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless Remote Controller					

Notes:

- Nominal capacities are based on the following conditions:
 - Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
 - Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Sound pressure level is measured 1.4m (4.59ft) below the unit in a semi-anechoic chamber.
- External static pressure is based on high speed indoor airflow.

Model			42VD056H112011010	42VD058H112011010	42VD060H112011010	42VD140H112011010	42VD160H112011010	42VD190H112011010
Power supply			1-phase,220-240V,50Hz					
Capacity	Cooling	kW	20.0	25.0	28.0	40.0	45.0	56.0
	Heating	kW	22.5	26.0	31.5	45.0	50.0	63.0
Power input	Cooling	W	1516	1516	1516	2700	2700	3400
	Heating	W	1516	1516	1516	2700	2700	3400
Airflow rate(H/M/L)		m ³ /h	4700/4100/3599	4700/4100/3599	4700/4100/3599	7472/6072/4995	7472/6072/4995	9550/7950/6600
External static pressure(Min/Std/Max)		Pa	50/200/280	50/200/280	50/200/280	50/200/280	50/200/280	50/200/280
Sound pressure level(H/M/L)		dB(A)	59/55/52	59/55/52	59/55/52	61/59/56	61/59/56	63/60/57
Net dimension(WxHxD)		mm	1440x505x925	1440x505x925	1440x505x925	1970x668x902.5	1970x668x902.5	1970x668x902.5
Packing dimension(WxHxD)		mm	1509x550x990	1509x550x990	1509x550x990	2095x800x964	2095x800x964	2095x800x964
Net/gross weight		kg	115/129	115/129	115/129	232/245	232/245	235/250
Piping connections	Liquid/gas pipe	mm	Φ9.53x2/Φ15.9x2	Φ9.53x2/Φ15.9x2	Φ9.53x2/Φ15.9x2	Φ9.53x2/Φ22.2x2	Φ9.53x2/Φ22.2x2	Φ9.53x2/Φ22.2x2
	Drain pipe	mm	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32	OD Φ32
Standard controller			Wireless Remote Controller					

Notes:

1. Nominal capacities are based on the following conditions:

- Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.

2. Sound pressure level is measured 1.4m (4.59ft) below the unit in a semi-anechoic chamber.

3. External static pressure is based on high speed indoor airflow.

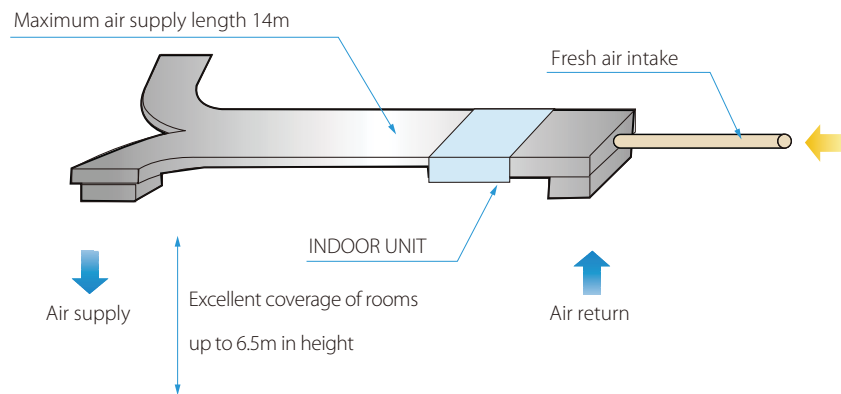
Fresh Air Processing Unit

Fan Motor Options >>

Choose either AC or DC fan motors.

100% Fresh Air Processing Unit >>

Both fresh air filtration and heating/cooling can be achieved in a single system. Indoor units and the Fresh Air Processing Unit can be connected to the same refrigerant system, increasing design flexibility and greatly reducing total system costs.



Flexible Duct Design >>

The Fresh Air Processing unit offers external static pressures of up to 196Pa (Capacities 12.5 to 14kW) or 280Pa (Capacities 20 to 28kW), allowing air supply duct lengths of up to 14m at a height of 6.5m.

The Comfort of Fresh Air >>

Enjoy the comfort and health benefits of fresh air being drawn into your working or living environment.

Specifications

50Hz AC fan motors

Model			42VD052H112211010	42VD054H112211010	42VD056H112211010	42VD058H112211010	42VD060H112211010
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	12.5	14.0	20.0	25.0	28.0
	Heating	kW	10.5	12.0	18.0	20.0	22.0
Power input	Cooling	W	430	430	1000×2	1063×2	1063×2
	Heating	W	430	430	1000×2	1063×2	1063×2
Airflow rate(H/M/L)		m ³ /h	2142/1870/1611	2142/1870/1611	2870/2620/2150	3005/2700/2250	3005/2700/2250
External static pressure(Min/Std/Max)		Pa	30/50/196	30/50/196	50/200/280	50/200/280	50/200/280
Sound pressure level(H/M/L)		dB(A)	54/52/50	54/52/50	54/53/51	55/54/52	55/54/52
Net dimension(W×H×D)		mm	1300×420×690	1300×420×690	1440×505×925	1440×505×925	1440×505×925
Packing dimension(W×H×D)		mm	1436×450×768	1436×450×768	1509×550×990	1509×550×990	1509×550×990
Net/gross weight		kg	69.5/76	69.5/76	115/125	115/125	115/125
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ32	OD Φ32	OD Φ32
Operation temperature range		°C	Heating: -5~16; Fan only: 16~20; Cooling: 20~43				
Standard controller			Wireless Remote Controller				

Notes:

- Nominal capacities are based on the following conditions:
 - Cooling: outdoor temperature 33°C (91.4°F) DB, 24°C (75.2°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
 - Heating: outdoor temperature 0°C (32°F) DB, -1°C (30.2°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Sound pressure level is measured 1.4m (4.59ft) below the unit in a semi-anechoic chamber.
- External static pressure is based on high speed indoor airflow.
- The Fresh Air Processing Unit can be used either independently or in conjunction with other types of indoor unit. If used independently, the total capacity of the Fresh Air Processing Units must be between 50% and 100% of that of the outdoor units. If used in conjunction with other types of indoor unit, the total capacity of the Fresh Air Processing Units must not exceed 30% of that of the outdoor units.

Wall-mounted



- Auto Restart Function
- Auto Addressing
- Timer
- Auto Defrosting
- Easy-cleaning Panel
- Follow Me
- Anti-cold Air Function
- Auto Swing
- LED Display
- Built-in Filter
- Independent Dehumidification
- Wired Controller

Multiple Options >>

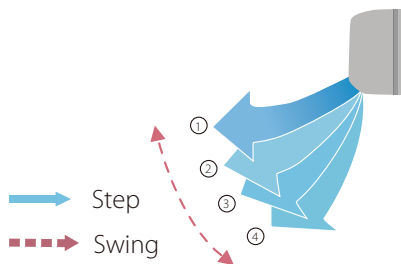
The elegant new series units enhance the aesthetics of any room and are suitable for a wide variety of installation space situations.

High Efficiency, Low Sound Level >>

Advanced brushless DC fan motors operate highly efficiently without generating excessive noise, saving energy at the same time as providing a low-noise work or living space.

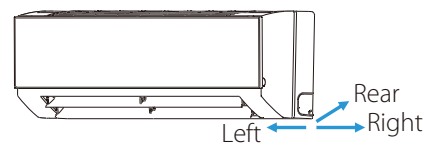
Auto Swing Louver >>

Multiple louver positions and the auto swing ensure precise and flexible airflow control.



Flexibility >>

To increase installation flexibility, the expansion valve is fitted internally, increasing compactness, and the refrigerant outlet direction can be left, right or rear as the installation situation requires. A new fixing plate design speeds installation and provides extra stability.



Optimal Comfort Through Better Flow Control >>

A 2000-stage element mechanical expansion valve ensures precise flow control whilst generating little modulation noise. A multi-blade fan coupled with a dual-blade air guide smooth output airflow and three fan speeds provide flexibility to respond to users' particular comfort requirements.



Specifications

(DC fan motors)

Model			42VH006H115000102	42VH009H115000102	42VH012H115000102	42VH018H115000102
Power supply			1-phase,220-240V,50/60Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.4	3.2	4	5
Power input	Cooling	W	8	9	19	19
	Heating	W	8	9	19	19
Airflow rate (H/M/L)		m ³ /h	422/393/356	417/370/316	656/573/488	594/507/424
Sound pressure level (H/M/L)		dB(A)	31/30/29	31/30/29	33/32/30	35/33/31
Net dimension (WxHxD)		mm	835x280x203	835x280x203	990x315x223	990x315x223
Packing dimension (WxHxD)		mm	935x385x320	935x385x320	1085x420x335	1085x420x335
Net/ Gross weight		kg	8.4/12.1	9.5/13.1	11.4/15.5	12.8/16.9
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ16.5			
Standard controller			Wireless remote controller			

Model			42VH024H115000102	42VH028H115000102	42VH032H115000102	42VH036H115000102
Power supply			1-phase,220-240V,50/60Hz			
Capacity	Cooling	kW	5.6	7.1	8	9
	Heating	kW	6.3	8	9	10
Power input	Cooling	W	27	49	53	82
	Heating	W	27	49	53	82
Airflow rate (H/M/L)		m ³ /h	747/648/547	1195/1005/809	1195/1005/809	1421/1067/867
Sound pressure level (H/M/L)		dB(A)	38/36/34	44/39/36	44/39/36	48/43/38
Dimension (WxHxD)		mm	990x315x223	1194x343x262	1194x343x262	1194x343x262
Packing (WxHxD)		mm	1085x420x335	1290x375x460	1290x375x460	1290x375x460
Net/ Gross weight		kg	12.8/16.9	17/22.4	17/22.4	17/22.4
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ16.5			
Standard controller			Wireless remote controller			

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temperature.: 27°CDB, 19°CWB,outdoor temperature.: 35°CDB, equivalent ref. piping: 7.5m(horizontal).
2. Nominal heating capacities are based on the following conditions: return air temperature.: 20°CDB, outdoor temperature.: 7°CDB, 6°CWB,equivalent ref. Piping: 7.5m(horizontal).
3. Sound level is measured 1m below the air outlet horizontally and vertically.

Ceiling & Floor



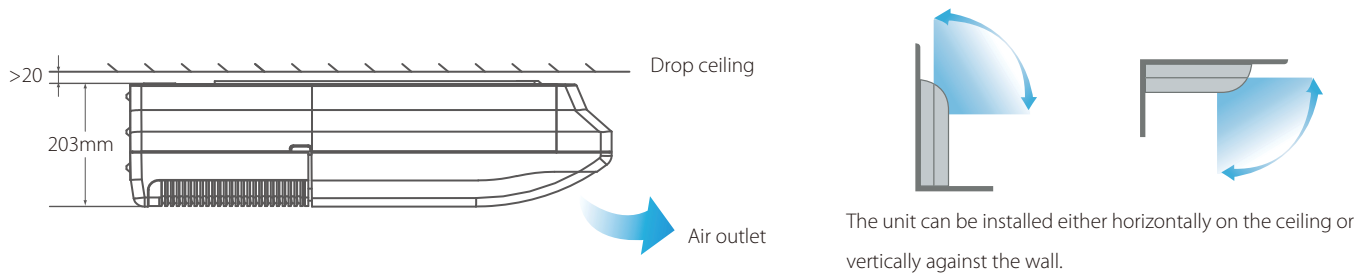
- Auto Restart Function
- Auto Addressing
- Timer
- Auto Defrosting
- Easy-cleaning Panel
- Follow Me
- Anti-cold Air Function
- Auto Swing
- LED Display
- Built-in Filter
- Independent Dehumidification
- Wired Controller

Fan Motor Options >>

Choose either AC or DC fan motors.

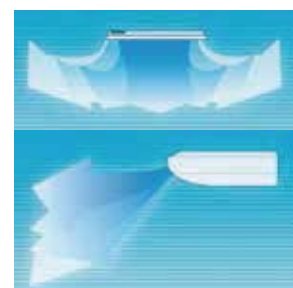
Flexibility >>

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



Wide-Angle Swing >>

A wide-angle swing together with bi-directional louver swing allows the positioning of the unit to be selected to suit the room's decor, whilst ensuring that full-room cooling and heating coverage is achieved.



Wide-angle swing

Increased Comfort >>

Sound levels as low as 36dB(A) are achieved using electronic expansion valves which ensure precise flow control whilst generating little modulation noise. A multi-blade fan coupled with a dual-louver air guide smooth output airflow.

Specifications

50Hz AC fan motors

Model			42VF012H112000010	42VF018H112000010	42VF024H112000010	42VF028H112000010	42VF032H112000010
Power supply			1-phase,220-240V,50Hz				
Capacity	Cooling	kW	3.6	4.5	5.6	7.1	8.0
	Heating	kW	4.0	5.0	6.3	8.0	9.0
Power input	Cooling	W	49	120	122	125	130
	Heating	W	49	120	122	125	130
Airflow rate(H/M/L)		m ³ /h	650/570/500	800/600/500	800/600/500	800/600/500	1,200/900/700
Sound pressure level(H/M/L)		dB(A)	40/38/36	43/41/38	43/41/38	43/41/38	45/43/40
Net dimension(WxHxD)		mm	990x203x660	990x203x660	990x203x660	990x203x660	1280x203x660
Packing dimension(WxHxD)		mm	1089x296x744	1089x296x744	1089x296x744	1089x296x744	1379x296x744
Net/gross weight		kg	26/32	28/34	28/34	28/34	34.5/41
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller				

Model			42VF036H112000010	42VF048H112000010	42VF054H112000010	42VF055H112000010
Power supply			1-phase,220-240V,50Hz			
Capacity	Cooling	kW	9.0	11.2	14.0	16.0
	Heating	kW	10.0	12.5	15.0	18.0
Power input	Cooling	W	130	182	182	300
	Heating	W	130	182	182	300
Airflow rate(H/M/L)		m ³ /h	1200/900/700	1980/1860/1730	1980/1860/1730	1980/1860/1730
Sound pressure level(H/M/L)		dB(A)	45/43/40	47/45/42	47/45/42	47/45/42
Net dimension(WxHxD)		mm	1280x203x660	1670x244x680	1670x244x680	1670x285x680
Packing dimension(WxHxD)		mm	1379x296x744	1764x329x760	1764x329x760	1775x377x760
Net/gross weight		kg	34.5/41	54/59	54/59	57.5/63.5
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller			

Notes:

1. Nominal capacities are based on the following conditions:

- Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.

2. Floor standing: Sound pressure level is measured at a position 1m (3.28ft) in front the unit and 1m (3.28ft) above the floor in a semi-anechoic chamber.

Ceiling mounted: Sound pressure level is measured at a position 1m (3.28ft) in front and 1m (3.28ft) below the unit in a semi-anechoic chamber.

DC fan motors

Model			42VF012H115000010	42VF018H115000010	42VF024H115000010	42VF028H115000010
Power supply			1-phase,220-240V,50/60Hz			
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
	Heating	kW	4.0	5.0	6.3	8.0
Power input	Cooling	W	23	94	94	94
	Heating	W	23	94	94	94
Airflow rate(H/M/L)		m ³ /h	550/480/420	930/830/720	930/830/720	930/830/720
Sound pressure level(H/M/L)		dB(A)	40/38/36	43/41/38	43/41/38	43/41/38
Sound power level(H/M/L)		dB(A)	51/50/49	54/53/51	54/53/51	54/53/51
Net dimension(WxHxD)		mm	990×203×660	990×203×660	990×203×660	990×203×660
Packing dimension(WxHxD)		mm	1089×296×744	1089×296×744	1089×296×744	1089×296×744
Net/gross weight		kg	25/31	27/33	27/33	27/33
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller			

Model			42VF032H115000010	42VF036H115000010	42VF048H115000010	42VF054H115000010
Power supply			1-phase,220-240V,50/60Hz			
Capacity	Cooling	kW	8.0	9.0	11.2	14.0
	Heating	kW	9.0	10.0	12.5	15
Power input	Cooling	W	126	126	65×2	65×2
	Heating	W	126	126	65×2	65×2
Airflow rate(H/M/L)		m ³ /h	1280/1170/1050	1280/1170/1050	1890/1700/1580	1890/1700/1580
Sound pressure level(H/M/L)		dB(A)	45/43/40	45/43/40	47/45/42	47/45/42
Sound power level(H/M/L)		dB(A)	56/55/53	56/55/53	58/56/55	58/56/55
Net dimension(WxHxD)		mm	1280×203×660	1280×203×660	1670×244×680	1670×244×680
Packing dimension(WxHxD)		mm	1379×296×744	1379×296×744	1764×329×760	1764×329×760
Net/gross weight		kg	33.5/40	33.5/40	49/57	49/57
Piping connections	Liquid/gas pipe	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller			

Notes:

1. Nominal capacities are based on the following conditions:

- Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.

2. Floor standing: Sound pressure level is measured at a position 1m (3.28ft) in front of the unit and 1m (3.28ft) above the floor in a semi-anechoic chamber.

Ceiling mounted: Sound pressure level is measured at a position 1m (3.28ft) in front and 1m (3.28ft) below the unit in a semi-anechoic chamber.

Floor Standing



Fan Motor Options >>

Choose either AC or DC fan motors.

Flexibility >>

The Floor Standing indoor unit can be installed on the floor or, for easier floor cleaning, hung on the wall with piping running from the rear. The streamlined appearance complements any room's decor.

Specifications

Model			42VS006H1 120020	42VS009H1 120020	42VS012H1 120020	42VS018H1 120020	42VS024H1 120020	42VS028H1 120020	42VS032H1 120020
Power supply			1-phase,220-240V,50Hz						
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
	Heating	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0
Power input	Cooling	W	40	46	46	49	88	130	130
	Heating	W	40	46	46	49	88	130	130
Airflow rate(H/M/L)	m ³ /h		530/456/400	569/485/421	624/522/375	660/542/440	1,150/970/830	1,380/1,100/870	1,380/1,100/870
Sound pressure level(H/M/L)	dB(A)		36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
Net dimension(WxHxD)	mm		1000x596x225	1000x596x225	1200x596x225	1200x596x225	1500x596x225	1500x596x225	1500x596x225
Packing dimension(WxHxD)	mm		1089x683x312	1089x683x312	1289x683x312	1289x683x312	1589x683x312	1589x683x312	1589x683x312
Net/gross weight	kg		30/35	30/35	36/44	36/44	41/46.5	41/46.5	42.5/48.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller						

Model			42VS006H1 150020	42VS009H1 150020	42VS012H1 150020	42VS018H1 150020	42VS024H1 150020	42VS028H1 150020	42VS032H1 150020
Power supply			1-phase,220-240V,50/60Hz						
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
	Heating	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0
Power input	Cooling	W	24	24	21	24	38	62	62
	Heating	W	23	24	19	24	41	65	63
Airflow rate(H/M/L)	m ³ /h		530/456/400	569/485/421	624/522/375	660/542/440	1150/970/830	1380/1100/870	1380/1100/870
Sound pressure level(H/M/L)	dB(A)		36/33/29	36/33/29	37/34/30	37/34/30	41/35/31	44/39/33	44/39/33
Sound power level(H/M/L)	dB(A)		47/45/42	47/45/42	48/46/43	48/46/43	52/47/44	55/51/46	55/51/46
Net dimension (WxHxD)	mm		1000x596x225	1000x596x225	1200x596x225	1200x596x225	1500x596x225	1500x596x225	1500x596x225
Packing dimension (WxHxD)	mm		1089x683x312	1089x683x312	1289x683x312	1289x683x312	1589x683x312	1589x683x312	1589x683x312
Net/gross weight	kg		29/34	29/34	35/43	35/43	40/45.5	40/45.5	41/46.5
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25	OD Φ25
Standard controller			Wireless remote controller						

Notes:

1. Nominal capacities are based on the following conditions:

- Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.

- Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.

2. The specifications of the F3B series are measured at 10Pa external static pressure and those of the F4 and F5 series at 0Pa external static pressure.

3. Sound pressure level is measured at a position 1m (3.28ft) in front the unit and 1m (3.28ft) above the floor in a semi-anechoic chamber.

Console



- Auto Restart
Function
- Auto
Addressing
- Timer
- Auto
Defrosting
- Easy-cleaning
Panel
- Follow
Me
- Anti-cold Air
Function
- Auto
Swing
- LED
Display
- Built-in
Filter
- Independent
Dehumidification
- Wired
Controller

Compact and Stylish >>

The elegant, space-saving design of the Console unit complements any room's decor. The expansion valve is installed inside the indoor unit for added compactness.

High-Efficiency Filter >>

Formaldehyde nemesis filter is fitted as standard and active-carbon and biological anti-virus filter are available as a customization option.

High Comfort >>

A wide-angle swing together with auto swing louvers and five fan speed options ensure that airflow reaches every corner of the room. A 2000-stage element mechanical expansion valve ensures precise flow control whilst generating little modulation noise.

Flexibility >>

The Console unit can be installed on the floor or lower part of the wall. Full capacity is still achieved even when the underside air inlet is unavailable.



Two Air Outlets and Four Air Inlets >>

The Console unit's combination of four air inlets and two air outlets ensure that cooling and heating is distributed in all directions.



Low-noise Design >>

A five-speed fan allows airflow customization whilst maintaining low-noise, low power consumption operation.



Sound levels as low as 26dB(A)

Specifications

Model			42VC006H112000010	42VC009H112000010	42VC012H112000010	42VC018H112000010
Power supply			1-phase,220-240V,50Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.6	3.2	4.0	5.0
Power input	Cooling	W	20	25	25	45
	Heating	W	20	25	25	45
Airflow rate(H/M/L)		m ³ /h	430/345/229	510/430/229	510/430/229	660/512/400
Sound pressure level(H/M/L)		dB(A)	38/32/26	39/33/27	39/33/27	42/39/36
Net dimension(WxHxD)		mm	700x600x210	700x600x210	700x600x210	700x600x210
Packing dimension(WxHxD)		mm	810x710x305	810x710x305	810x710x305	810x710x305
Net/gross weight		kg	14/19	15/20	15/20	15/20
Piping connections	Liquid/gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7
	Drain pipe	mm	OD Φ16	OD Φ16	OD Φ16	OD Φ16
Standard controller			Wireless remote controller			

1. Nominal capacities are based on the following conditions:

- Cooling: indoor temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
- Heating: indoor temperature 20°C (68.0°F) DB; outdoor temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.

2. Sound pressure level is measured at a position 1m (3.28ft) in front the unit and 1m (3.28ft) above the floor in a semi-anechoic chamber.

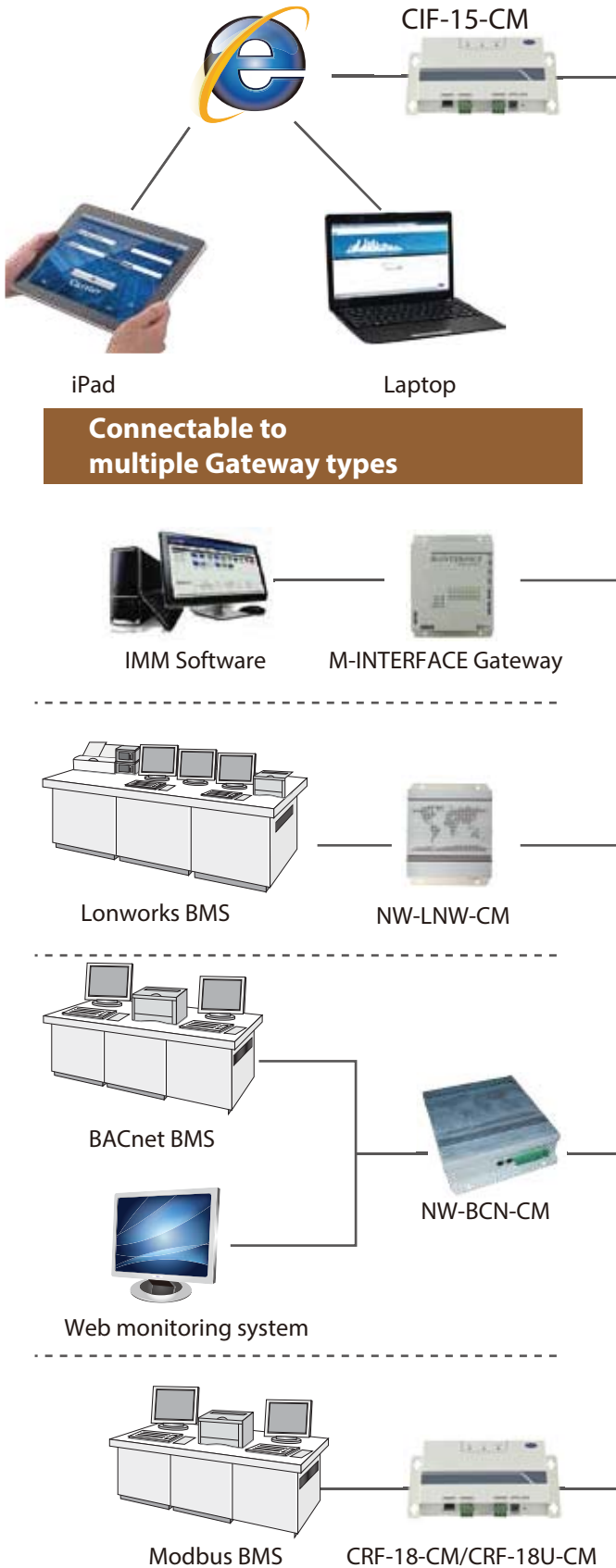
A low-angle, upward-looking photograph of several modern skyscrapers. The buildings are primarily glass and steel, with a prominent white structural frame on the rightmost tower. The sky is a vibrant blue with scattered white clouds. A semi-transparent dark grey horizontal band is overlaid across the middle of the image, containing the text and a symbol.

Control Systems

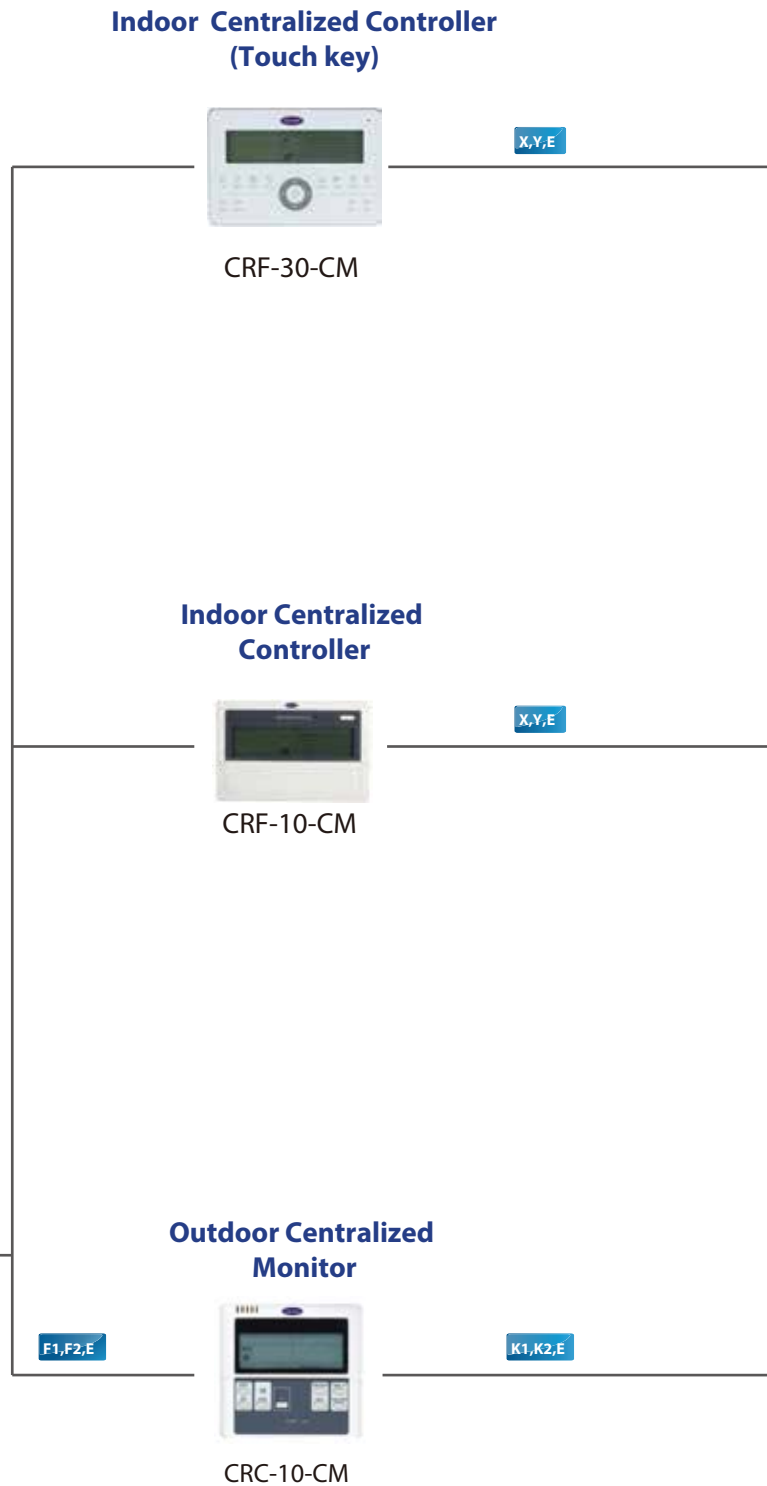


Control Systems

Network Control



Centralized Control



Note: The wires in the diagram show the signal flows only, while not represent the actual connecting ways.

Individual control

Wired controller

WR-29B-CM
WR-120B-CM
WR-90D-CM



Remote controller

WL-12-CM
WL-14-CM



Accessories

Card-key Interface CA-NIM05



CA-NIM05



Card-key



Wired controller

Infrared Sensor CA-NIM09



Infrared control box

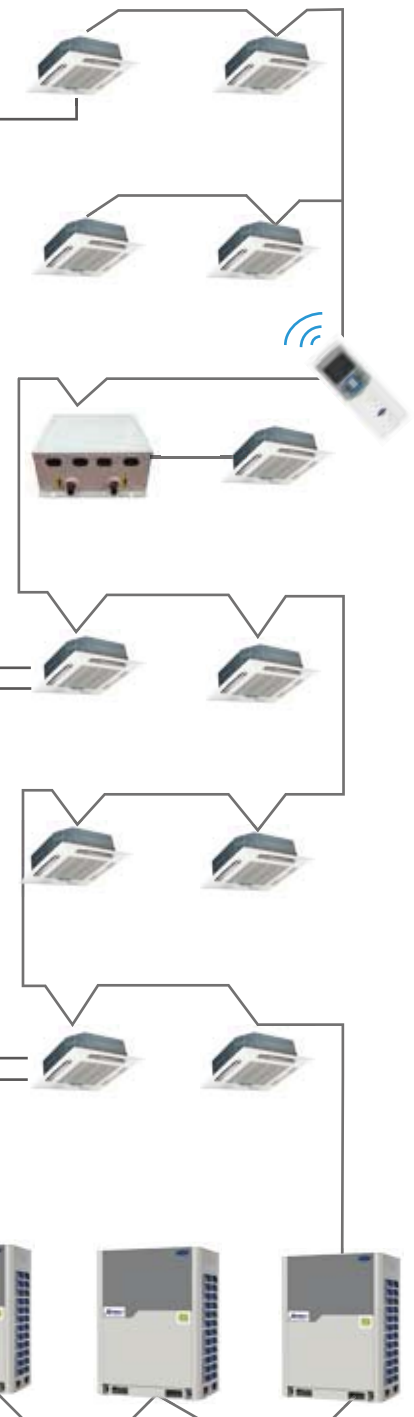


Infrared sensor module



Wired controller

Outdoor units



Wireless Remote Controller >>



WL-14-CM



WL-12-CM

Model Name	WL-14-CM	WL-12-CM
Mode change	√	√
Temp. setting	√	√
Fan speed control	√	√
Keyboard lock	√	√
Swing function	√	√
Air direction	√	√
24h timer	√	√
Clock display		√
Address setting	√	√
Follow me function	√	
26°C shortcut setting	√	
Background light	√	√
Dimensions (H*W*D)mm	150*60*15	150*65*20

Wired Controller >>



WR-29B-CM
WR-120B-CM



WR-90D-CM



Auto mode



DRY mode



HEAT mode



COOL mode



FAN mode



Silent mode



Timer



Lock



Filter cleaning reminder



Follow Me



Address setting

Model Name	WR-90D-CM	WR-29B-CM	WR-120B-CM
Fanspeed control	√	√	√
Mode change	√	√	√
Auto mode			√*
Keyboard lock	√	√	√
Swing function	√	√	√
Background light	√	√	√
24h timer	√	√	√
Clock display	√	√	√
Address setting	√	√	
Receiving remote signal	√	√	
Clean filter reminder	√	√	√
Follow me function	√	√	
Silent mode	√	√	√
°F/°C initial setting	√	√	√
Auto restart	√	√	√
Error reporting			√
Dimensions (H*W*D)mm	86*86*20	120*120*20	120*120*20

*only available for heat recovery VRF series,

Centralized Controller >>

Indoor Centralized Controller



CRF-10-CM



CRF-30-CM

- COOL mode
- Swing
- Filter cleaning reminder
- HEAT mode
- Keyboard lock
- Remote controller lock
- Timer
- Fan mode
- Cooling lock
- Heating lock
- Net connection

Weekly Schedule Centralized Controller

WCRF-10-CM



- Auto mode
- COOL mode
- HEAT mode
- Fan mode
- DRY mode
- Cooling lock
- Swing
- Keyboard lock
- Heating lock
- Remote controller lock
- Weekly schedule

Model	CRF-30-CM	CRF-10-CM	WCRF-10-CM
Mstinu roodni fo rebmun .xa	64	64	64
Group control	√	√	√
Individual control	√	√	√
Fanspeed control	√	√	√
Model selection	√	√	√
Modelock	√	√	√
Remotecontroller lock	√	√	√
Keyboardlock	√	√	√
Weekly schedule timer			√
24h timer	√	√	√
Error check	√	√	√
Emergency start	√	√	√
Emergency stop	√	√	√
Background light	√	√	√
Swing function	√	√	√
Air filter cleaning reminder	√		
Parameter query	√	√	√
BMS access	√	√	
Dimensions (H*W*D)mm	180*122*78	179*119*74	179*119*74

Centralized Controller >>

Unified On/Off Controller

Unified controller design with graceful appearance and explicit panel.

CRF-90-CM



Max. 16 units

Feature:

- ❖ Centralized Control
- ❖ Short press : Only turn ON/OFF the last time operated indoor units.
- ❖ Long press (3 seconds) : Can turn ON/OFF all indoor units.
- ❖ Operation Mode Selection Switch (Cooling, Heating)
- ❖ Sleep and memory function

If no operation to be conducted at the controller after 25 seconds, system would enter to sleep mode, all indicators are faded. Press any key to recovery the displaying.

Outdoor Centralized Monitor

CRC-10-CM



Max. 8 systems

Feature:

- ❖ RS485 communication
- ❖ Up to 8 systems, max.32 outdoor units can be centralized monitored
- ❖ It can display the operating parameters of outdoor units
- ❖ It can display the error or protection code of outdoor unit
- ❖ Dimensions (H*W*D) mm: 120*120*15



Query parameters



Protection/Error codes



Power consumption



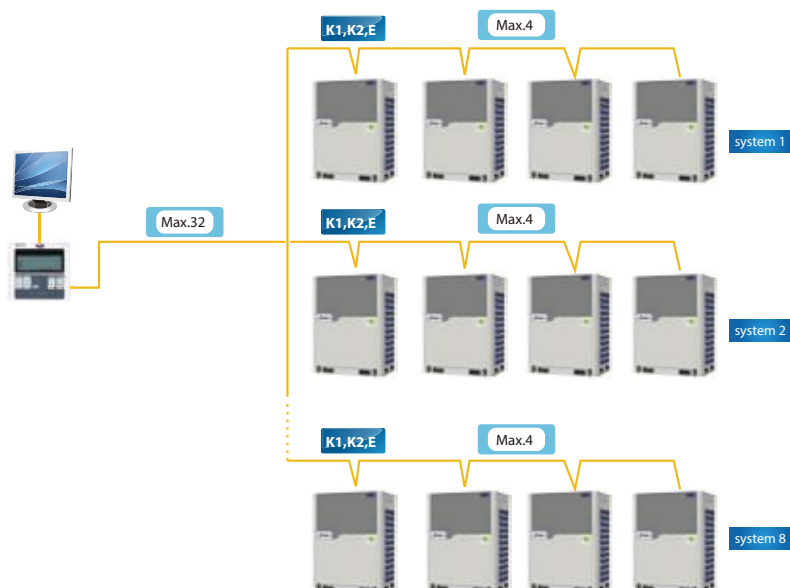
With the ODU communication



With the PC communication



Forced Cooling



Central Control Software >>



Central Control Software >>

Intelligent Manager of Carrier 4th Generation Network Control System

4GNS-10-CM 4GNS-10-IF

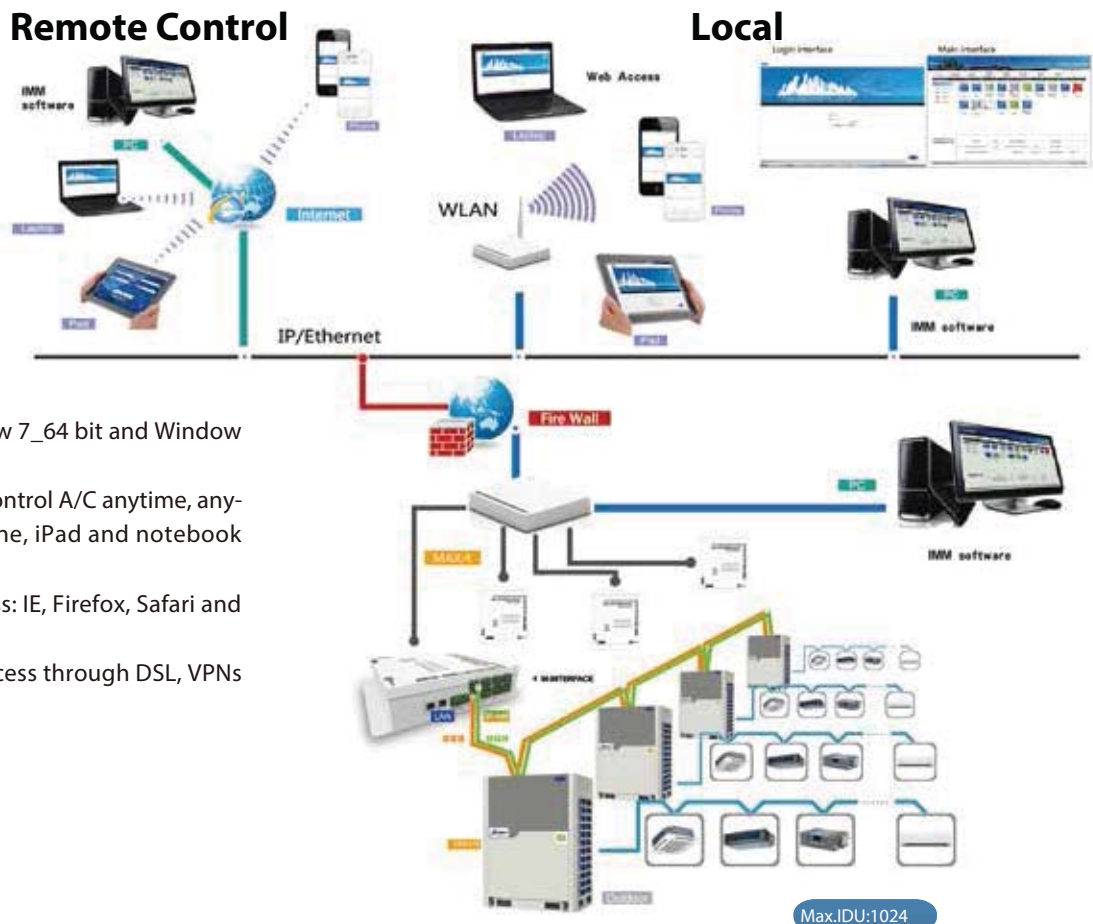


Functions >>

Intelligent Manager of Carrier, designed specifically to control VRF systems, is based on a centralized format and dedicated to the complete control and monitoring of all the system's functions. It can be used as a flexible multi-purpose system and applied to a variety of needs, according to the scale, purpose and control method of each building.

- Up to 4 M-interfaces, 64 refrigerant systems, 1,024 indoor units, and 256 outdoor units can be controlled by one PC.
- Web Access
- User friendly operation
- Central building monitoring and control
- Energy saving management
- SMS modem (optional)
- Electricity charge distribution
- Annual schedule control
- Low-load operation indicate
- Generate operational history reports (daily, weekly, monthly)
- Fault display & Warning message
- Filter replacement reminder
- Emergency stop and Alarm signal output

Network Control Application >>



- ❖ Can run on ,Window 7_64 bit and Window XP_32 bit.
- ❖ Can monitor and control A/C anytime, anywhere by PC, iPhone, iPad and notebook computer.
- ❖ Support WEB access: IE, Firefox, Safari and Chrome.
- ❖ Enables remote access through DSL, VPNs and so on.

Accessories >>

Data converter

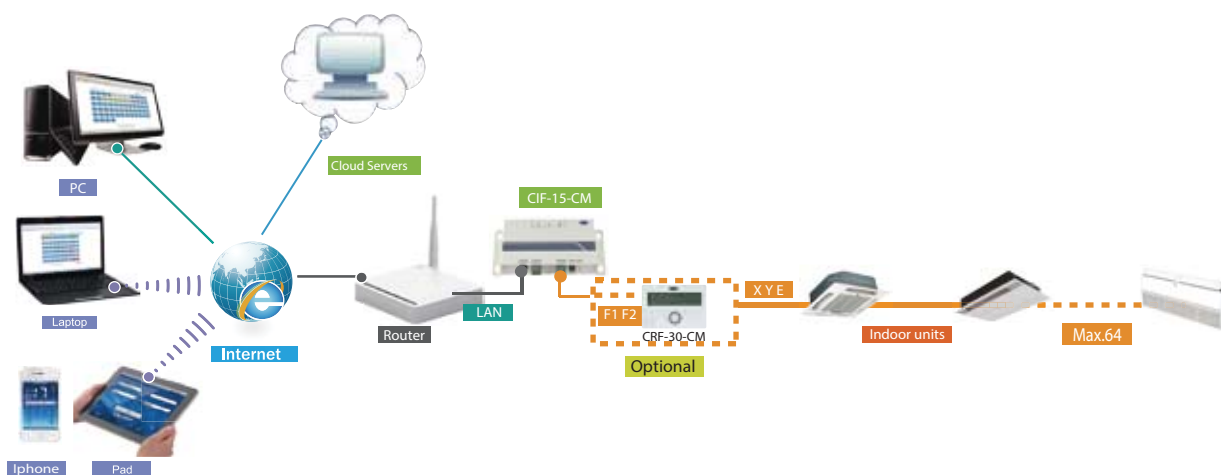
CIF-15-CM

- ❖ Can realize data conversion between TCP/IP protocol and 485 protocol.
- ❖ WEB function realizes VRF system's webpage access.
- ❖ User can monitor and query the air conditioners through LAN and WAN.
- ❖ Providing the TCP / IP port for VRF system of Carrier to achieve WEB/HTTP/TCP/IP access.
- ❖ Can remotely control the A/C systems through computer, iPhone, iPad or other intelligent terminals.



Network example >>

- ❖ Can be directly connected with XYE port of the indoor units.
- ❖ Up to connect 64 indoor units.
- ❖ CRF-10-CM/CRF-30-CM is optional and can be connected with CIF-15-CM through F1, F2 and E ports.
- ❖ The system consisting A/C system, data converter CIF-15-CM, router, cloud server and control terminal.



Simply control interface >>

- ❖ Software control/ Cloud server control (WEB access).
- ❖ Click & operate, a user-friendly interface.
- ❖ Allows signal and group control.
- ❖ Simplified user control interface.
- ❖ Color indication and icon makes it easy to recognize unit state.
- ❖ Full screen display and the temperature can be adjusted by fingers' sliding.



Accessories >>

BACnet® BMS Gateway

NW-BCN-CM



BACnet Gateway

Feature:

- ❖ BACNET protocol network
- ❖ Web Access Function
- ❖ BTL certification
- ❖ Dimensions (H*W*D) mm: 319*251*61
- ❖ Contains 4 groups of RS485 communication ports
- ❖ Connect up to 256 indoor units or 128 outdoor units to the BMS

Accessories >>

Modbus BMS Gateway

CRF-18-CM/CRF-18U-CM



Modbus Gateway

Feature:

- ❖ Directly bridge the IDU to the Modbus network
- ❖ One CRF-18-CM can connect max. 64 IDU and 4 outdoor unit
- ❖ One CRF-18U-CM can connect max. 16 IDU
- ❖ Built-in WEB server function
- ❖ Can't connect with central controller
- ❖ Dimensions(H*W*D)mm:187*115*25

Accessories >>

LonWorks® BMS Gateway

NW-LNW-CM



LonWorks Gateway

Feature:

- ❖ Directly bridge the IDU to the LonWorks network
- ❖ One gateway max. connect 64 IDU
- ❖ Can't connect with central controllers
- ❖ Only can monitor/control indoor unit
- ❖ Dimensions (H*W*D) mm: 319*251*61

KNX Gateway

NW-KNX-CM



KNX Gateway

Feature:

- ❖ External power is not required and direct connect to the KNX EIB bus
- ❖ One KNX connect one indoor unit
- ❖ Easy installation and directly connects with one indoor unit through the RS485 bus
- ❖ Directly connect to the KNX bus
- ❖ KNX certification
- ❖ Dimensions (H*W*D) mm: 85*51*16

3-Phase Protector

HWUA



DPB71CM48



3-phase protector

Feature:

- ❖ Detects power status and take protective action to stop the compressor from being damaged
- ❖ Automatically distinguishes the abnormal power supply conditions and automatically recovers
- ❖ Auto restart after recovery

Digital Power Ammeter

DTS634/DTS636



Digital Power Ammeter

Feature:

- ❖ Calculates power consumption
- ❖ Doesn't need to adjust after long-term use
- ❖ Corresponds one outdoor unit to one digital power ammeter
- ❖ Powersupply:380V-3N~50Hz,
- ❖ 380V-3N~60Hz,
- ❖ 220V-3N~60Hz
- ❖ Dimensions (H*W*D) mm: 230*145*72
- ❖ * Different type power meters match different power forms.

Accessories >>

Remote Alarm Controller

WR-32-CM



ODU alarm module

Feature:

- ❖ Design for outdoor alarm and monitoring
- ❖ It doesn't display the ODU's working parameters, it can connect the alarm device when the ODU is working abnormally, in which case the RUN light will flash
- ❖ Access to network monitoring system
- ❖ 220V power input
- ❖ 220V AC output for the alarm device
- ❖ Dimensions(H*W*D)mm:85*150*70

Indoor Unit Group Controller

WR-150A-CM



Feature:

- ❖ It can connect up to 16 indoor units through XYE ports.
- ❖ With a display panel connected to WR-150A-CM, signal from wired controller and remote controller can control a group of indoor units simultaneously and all indoor units will run at the same setting parameters.
- ❖ Dimensions (H*W*D) mm: 85*150*70

Outdoor Unit Dry Contact

WR-150B-CM

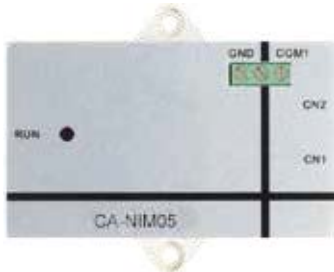


Feature:

- ❖ Connect the outdoor unit through K1 K2 E three terminals, offer 3 dry contact in 3 different states through status output
- ❖ Dimensions (H*W*D) mm: 85*150*70

Accessories >>

Hotel Key Card Interface Module



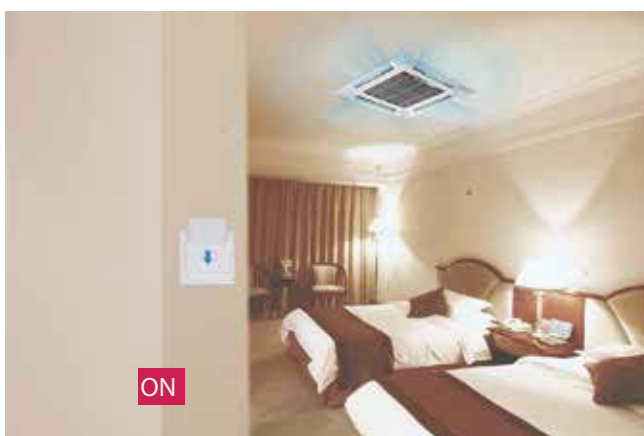
CA-NIM05/E



CA-NIM05B/E

Key Features >>

- ❖ Special design for hotel guest room, working with hotel card system
- ❖ When the Card Key is in place, the air conditioner is activated
- ❖ When the Card Key is removed, the air conditioner switches off, to avoid cooling an unoccupied room and save energy
- ❖ Built-in auto restart function
- ❖ Compatible with remote and wired controllers
- ❖ The CA-NIM05/E works in conjunction with a high voltage relay
- ❖ The CA-NIM05B/E can be connected directly to the hotel card slot system (AC 220V) without the need for a high voltage relay
- ❖ CA-NIM05/E 15.5*86*72.8 ; CA-NIM05B/E 87*150*70



Accessories >>

Infrared Sensor Controller



CA-NIM09

Feature:

- ❖ The infrared sensor is suitable to be used in hotel, office, conference room, residence, etc.
- ❖ When someone gets into the room, air conditioner will start automatic. If no one activities, it will be turn off. It controls the AC's on/off by the infrared that our body has delivered.
- ❖ This function will save energy since it minimizes the unnecessary energy usage by powering off when the area is empty.
- ❖ Dimensions (H*W*D) mm:
- ❖ sensor part 46*30*25.6 ; control box 86*72.8*15.5

Accessories >>

AHU Control Box

AHUKZ-01B/AHUKZ-02B/AHUKZ-03B

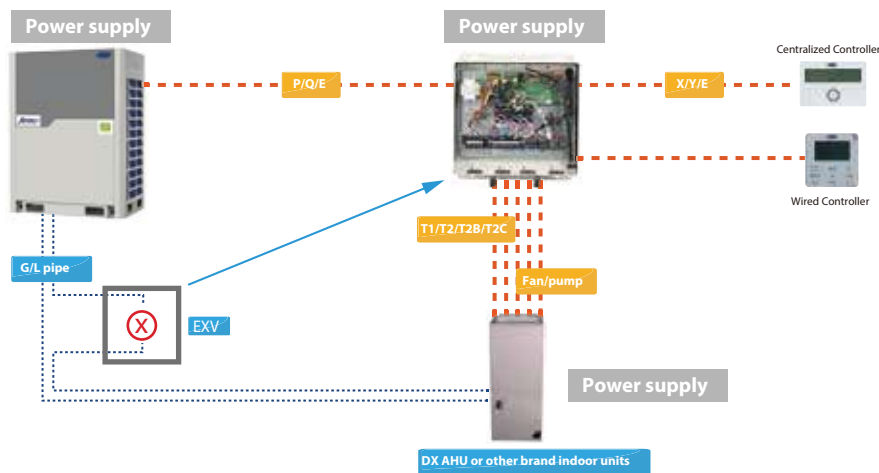
X-Power Standard functions inside.

Can be used to connect VRF outdoor units with DX AHU or other brand indoor units



Introduction >>

AHUKZ-01B/AHUKZ-02B/AHUKZ-03B is an independent control box that can connect a AHU to X-Power system to realize centralized control with X-Power system. Control box wiring is as follows:



Feature >>

Maximum 4 AHU Control Box can be parallel installed to one 3rd party indoor unit

Interface to allow other brand's DX AHU connecting to our VRF outdoor units.

DX AHU connection kit consist of control part, EXV part, temperature sensors and wired controller.

- Access to network monitoring system
- Dimensions (H*W*D) mm: 335*375*150

HRV >>



HEAT RECOVERY VENTILATOR

Alternative fan motor >>

Versions for AC/DC fan motors.

Enhanced Efficiency >>

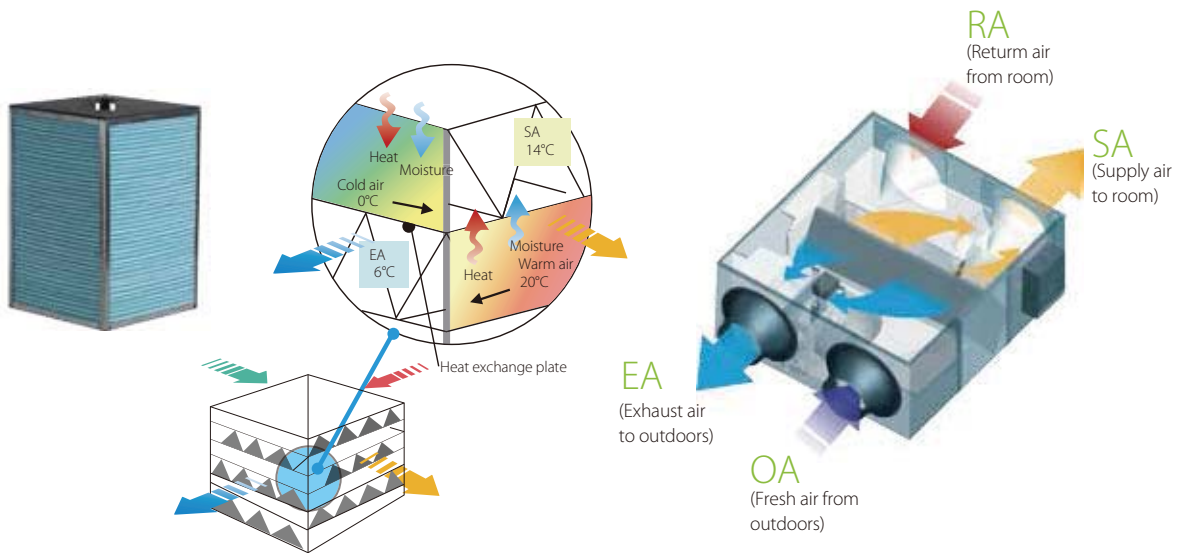
The heat recovery ventilator (HRV) can greatly reduce energy losses and room temperature fluctuations caused by the ventilation process. The HRV's strong performance is a result of the advanced technology incorporated into its design. The heat exchanger core is made of specially treated paper which gives enhanced temperature and humidity control. Temperature exchange efficiency is over 65% and enthalpy exchange efficiency is 50-65%.

Model Names

- HRV-200
- HRV-300
- HRV-400
- HRV-500
- HRV-800
- HRV-1000



- HRV-1500
- HRV-2000

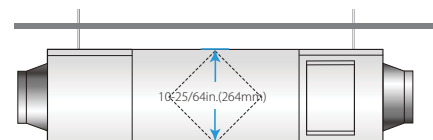


Low noise >>

Soundproofing is used to guarantee quiet operation.

Flexibility >>

Heights starting from as little as 264mm and weights from as little as 23kg mean that the HRV can be easily installed even where space is limited.



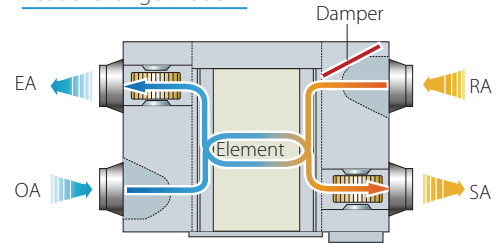
Multiple Modes >>

Heat exchange mode

The flows of incoming and outgoing air pass close to each other, allowing heat transfer between the two channels.

During summer, incoming air is cooled by the indoor air being exhausted and in winter, incoming air is warmed.

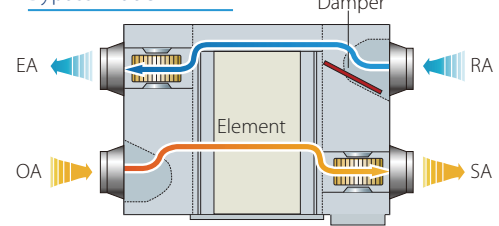
Heat exchange mode



Bypass mode

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

Bypass mode



Air supply mode

Air supply mode is a form of bypass mode where the supply fan is set to run faster than the exhaust fan, which is useful in mild climate installations with high fresh air ventilation requirements.

Exhaust mode

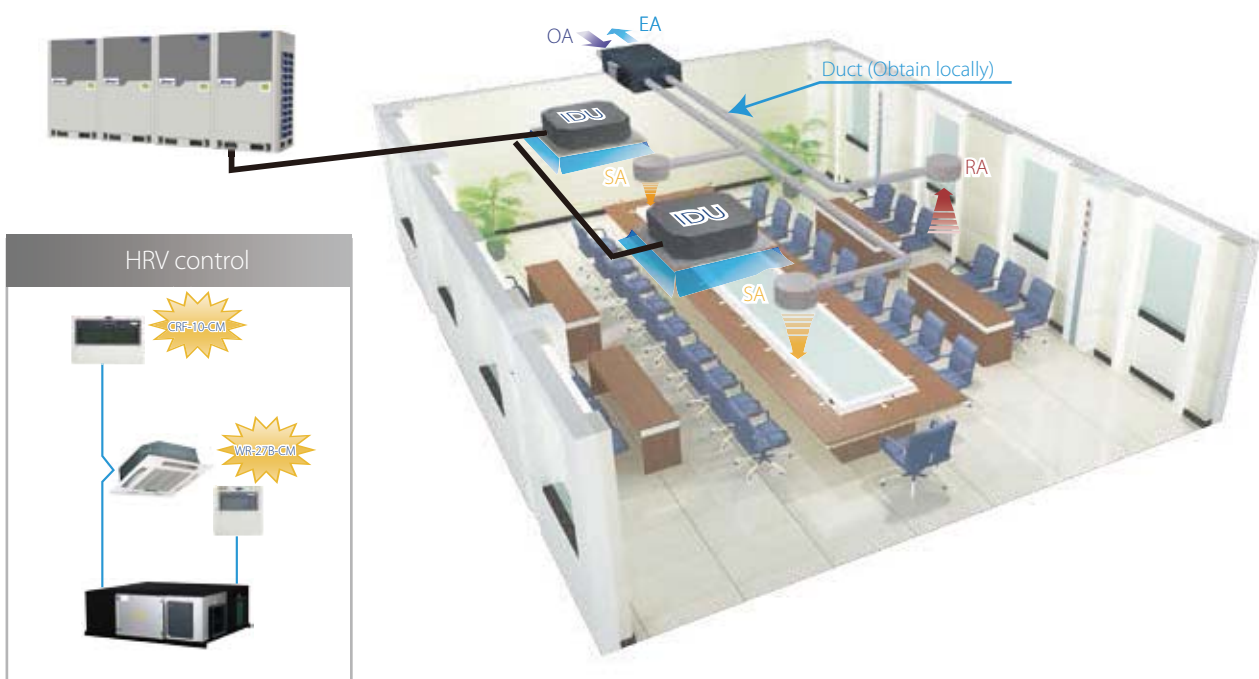
Exhaust mode is a form of bypass mode where the exhaust fan is set to run faster than the supply fan, which is useful in mild climate installations with large amounts of exhaust air to be expelled.

Auto mode

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

Flexible Control >>

HRV can be controlled together with other indoor units.



Specifications

AC fan motors

Model				HRV-200	HRV-300	HRV-400	HRV-500	
Power supply				1-phase,220-240V,50Hz				1-phase,220V,60Hz
Cooling	Temperature exchange efficiency	High	%	55	55	55	55	
		Medium	%	55	55	55	55	
		Low	%	60	60	60	60	
	Enthalpy exchange efficiency	High	%	50	50	50	50	
		Medium	%	50	50	50	50	
		Low	%	55	55	55	55	
Heating	Temperature exchange efficiency	High	%	60	60	60	65	
		Medium	%	60	60	60	65	
		Low	%	65	65	65	70	
	Enthalpy exchange efficiency	High	%	55	55	60	60	
		Medium	%	55	55	60	60	
		Low	%	60	60	65	65	
Sound pressure level	Heat exchange mode	High	dB(A)	27	30	32	35	
		Medium	dB(A)	26	29	31	34	
		Low	dB(A)	20	23	25	28	
	Bypass mode	High	dB(A)	28	31	33	36	
		Medium	dB(A)	27	30	32	35	
		Low	dB(A)	22	25	27	30	
Net dimension (WxDxH)		mm	866x655x264	944x722x270	944x927x270	1038x1026x270		
Packing size (WxDxH)		mm	960x770x445	1020x810x452	1020x1020x452	1120x1120x452		
Net/gross weight		kg	23/40	26/44	31/52	41/64		
Casing		Galvanized steel plate						
Heat exchange system		Air to air cross flow total heat (sensible heat + latent heat) exchange						
Heat exchange element material		Specially processed nonflammable paper						
Fan	Type		Centrifugal fan					
	Airflow rate	High	m ³ /h	200	300	400	500	
		Medium	m ³ /h	200	300	400	500	
		Low	m ³ /h	150	225	300	375	
	ESP	High	Pa	75	75	80	80	
		Medium	Pa	58	60	65	68	
		Low	Pa	35	40	43	45	
	Motor output		W	20	40	80	120	
Duct diameter		mm	Φ144	Φ144	Φ144	Φ194		
Operating temperature range		°C					-7~43 DB, 80% RH or less	

Model				HRV-800	HRV-1000	HRV-1500	HRV-2000	
Power supply				1-phase,220-240V,50Hz (1-phase,220V,60Hz)				3-phase,380-415V,50Hz (3-phase,220V,60Hz)
Cooling	Temperature exchange efficiency	High	%	55	55	55	55	
		Medium	%	55	55	/	/	
		Low	%	60	60	/	/	
	Enthalpy exchange efficiency	High	%	50	50	50	50	
		Medium	%	50	50	/	/	
		Low	%	55	55	/	/	
Heating	Temperature exchange efficiency	High	%	65	65	65	65	
		Medium	%	65	65	/	/	
		Low	%	70	70	/	/	
	Enthalpy exchange efficiency	High	%	60	60	60	60	
		Medium	%	60	60	/	/	
		Low	%	65	65	/	/	
Sound pressure level	Heat exchange mode	High	dB(A)	39	40	51	53	
		Medium	dB(A)	38	39	/	/	
		Low	dB(A)	32	33	/	/	
	Bypass mode	High	dB(A)	40	41	52	54	
		Medium	dB(A)	39	40	/	/	
		Low	dB(A)	34	35	/	/	
Net dimension (WxDxH)		mm	1286x1006x388	1286x1256x388	1600x1270x540	1650x1470x540		
Packing size (WxDxH)		mm	1380x1100x573	1400x1370x573	1710x1410x720	1760x1610x720		
Net/gross weight		kg	62/88	79/110	163/224	182/247		
Casing		Galvanized steel plate						
Heat exchange system		Air to air cross flow total heat (sensible heat + latent heat) exchange						
Heat exchange element material		Specially processed nonflammable paper						
Fan	Type		Centrifugal fan					
	Airflow rate	High	m ³ /h	800	1000	1500	2000	
		Medium	m ³ /h	800	1000	/	/	
		Low	m ³ /h	600	750	/	/	
	ESP	High	Pa	100	100	160	170	
		Medium	Pa	82	85	/	/	
		Low	Pa	54	58	/	/	
	Motor output		W	360	360	450	450	
Duct diameter		mm	Φ242	Φ242	346x326	346x326		
Operating temperature range		°C					-7~43 DB, 80% RH or less	

Note:

- For the units model of HRV (200-1000), there are 3-speed adjustable air volume (Hi, Med, Low), but the fan speed of models HRV-1500 and HRV-2000 is not adjustable.
- Sound level is measured 1.4m below the center of the unit in an anechoic chamber.
- Efficiency is measured under the following conditions:

* Cooling: air exhaust temp 27°C (80.6°F) DB, 19.5°C (67.1°F) WB; fresh air temp. 35°C (95°F) DB, 28°C (82.4°F) WB.

* Heating: air exhaust temp 21°C (69.8°F) DB, 13°C (55.4°F) WB; fresh air temp. 5°C (41°F) DB, 2°C (35.6°F) WB.

DC fan motors

Sale Model			HRV-D200	HRV-D300	HRV-D400	HRV-D500
Power supply		V-Ph-Hz	1-phase,220-240V,50/60Hz			
Cooling	Temp. exchange efficiency	%	76.1	74.8	76.2	76.1
	Enthalpy exchange efficiency	%	77.3	76.1	78.7	78.2
Heating	Temp. exchange efficiency	%	76.1	74.8	76.2	76.1
	Enthalpy exchange efficiency	%	82.6	79.8	83.6	80.4
Input power		W	61	98	109	170
Current		A	0.72	0.99	1.07	1.56
Indoor fan motor	Model		WZDK100-38G-1	WZDK100-38G-1	WZDK100-38G-1	WZDK100-38G-1
	Insulation class		E			
	Output	W	26*2	42*2	46*2	72*2
	Pole number		8P	8P	8P	8P
	Speed	r/min	1390	1390	1390	1380
Indoor fan	material		ABS			
	Type		Centrifugal fan			
	Diameter	mm	Φ154	Φ194	Φ194	Φ203
	Height	mm	102	100	100	151
Indoor external static pressure (Hi)		Pa	75	75	80	80
Nominal air flow		m³/h	200	300	400	500
Sound pressure level		dB(A)	27	30	32	35
Net dimension (LxWxH)		mm	866×666×264	944×733×270	944×938×270	1038×1037×270
Packing size (LxWxH)		mm	960×770×445	1020×810×452	1020×1020×452	1120×1120×452
Net/Gross weight		kg	25/40	27/44	32/52	35/60
Power supply wire	Wire's qty		3	3	3	3
	Code wire cross section	mm²	2.5	2.5	2.5	2.5
Controller			Wired controller			
Fresh Air Diameter		mm	Φ144	Φ144	Φ144	Φ194
Operating temperature range		°C	-7~43DB, 80%RH or less			

Sale Model			HRV-D800	HRV-D1000	HRV-D1500	HRV-D2000
Power supply		V-Ph-Hz	1-phase,220-240V,50/60Hz			
Cooling	Temp. exchange efficiency	%	76.9	75.8	77.8	77.2
	Enthalpy exchange efficiency	%	78.1	76.9	79.2	78.7
Heating	Temp. exchange efficiency	%	76.9	75.8	77.8	77.2
	Enthalpy exchange efficiency	%	80.1	78.6	80.5	80.3
Input power		W	246	360	725	1340
Current		A	2.28	3.1	5.29	9.11
Indoor fan motor	Model		WZDK170-38G-2	WZDK170-38G-2	WZDK750-38G-W-1	WZDK750-38G-W-1
	Insulation class		E			
	Output	W	104*2	153*2	308*2	570*2
	Pole number		8P	8P	8P	8P
	Speed	r/min	1150	1230	1220	1390
Indoor fan	material		ABS		metal	
	Type		Centrifugal fan			
	Diameter	mm	Φ245	Φ245	Φ234	Φ234
	Height	mm	203	203	261	261
Indoor external static pressure (Hi)		Pa	100	100	160	170
Nominal air flow		m³/h	800	1000	1500	2000
Sound pressure level		dB(A)	39	40	51	53
Net dimension (LxWxH)		mm	1286×1017×388	1286×1267×388	1600×1270×540	1650×1470×540
Packing size (LxWxH)		mm	1380×1100×573	1400×1370×573	1710×1410×720	1760×1610×720
Net/Gross weight		kg	58/88	69/100	151/224	165/247
Power supply wire	Wire's qty		3	3	3	3
	Code wire cross section	mm²	2.5	2.5	2.5	2.5
Controller			Wired controller			
Fresh Air Diameter		mm	Φ242	Φ242	346×326	346×326
Operating temperature range		°C	-7~43DB, 80%RH or less			

Note:

1. For the units model of HRV-D200~HRV-D2000, there are 3-speed adjustable air-volume (Hi, Med, Low).
2. All the parameters is measured at the high speed air-volume.
3. Sound level is measured 1.4m below the center of the unit in an anechoic chamber.
4. Efficiency is measured under the following conditions:
 * Cooling: air exhaust temp 27°C (80.6°F) DB, 19.5°C (67.1°F) WB; fresh air temp. 35°C (95°F) DB, 28°C (82.4°F) WB.
 * Heating: air exhaust temp 21°C (69.8°F) DB, 13°C (55.4°F) WB; fresh air temp. 5°C (41°F) DB, 2°C (35.6°F) WB.





A photograph of a modern architectural structure featuring a glass and steel framework. The structure includes a walkway with a metal railing and a glass balustrade. The background shows a large glass facade reflecting the sky and surrounding environment. The overall scene is brightly lit, suggesting a sunny day.

Branch Pipe



Branch Pipe

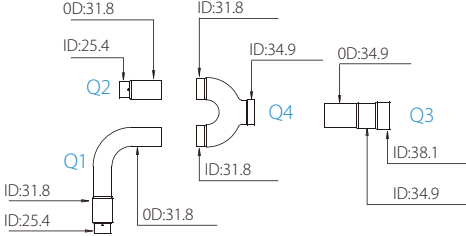
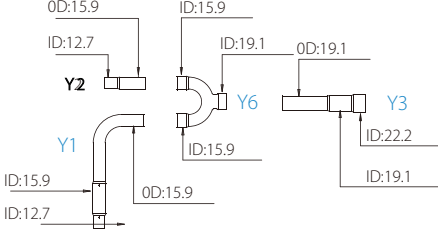
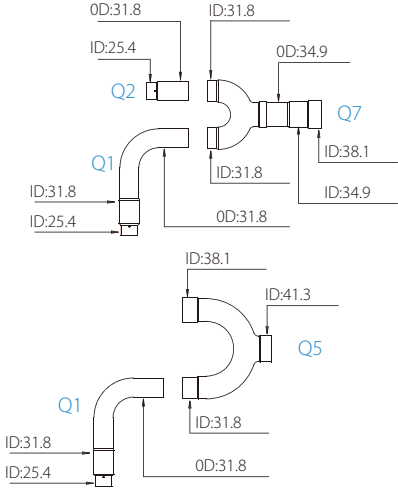
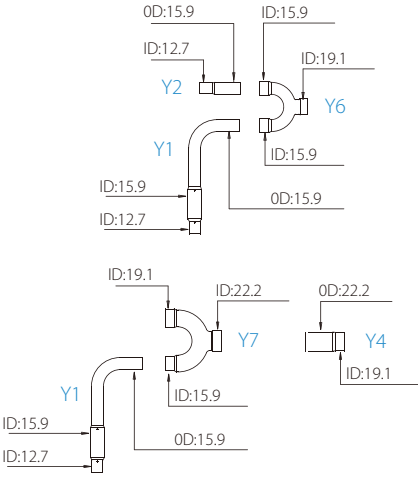
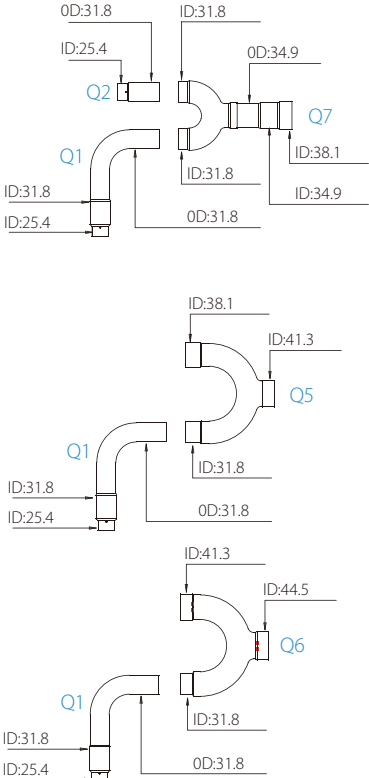
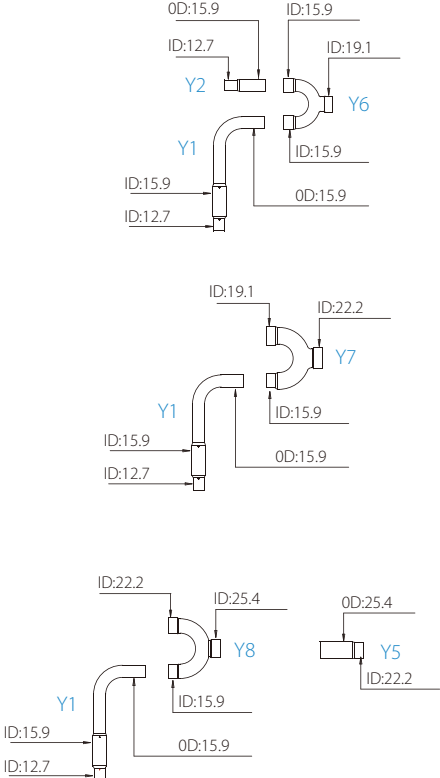
Branch joints of two-pipe refrigerant system

Model	Appearance	Model name	Packing Size (mm)	Gross Weight (kg)	Description
Branch joint for R410A outdoor unit		BJC-02-CM(i)	255×150×185	1.5	For two outdoor units connection
		BJC-03-CM(i)	345×160×285	3.4	For three outdoor units connection
		BJC-04-CM(i)	475×165×300	4.8	For four outdoor units connection
Branch joint for R410A indoor unit		BJF-224-CM(i)	90×105×100	0.4	$A^* < 16.6\text{kW}$
		BJF-330-CM(i)	290×105×100	0.6	$16.6 \leq A^* < 33\text{kW}$
		BJF-710-CM(i)	310×130×125	0.9	$33\text{kW} \leq A^* < 66\text{kW}$
		BJF-1344-CM(i)	350×180×170	1.5	$66\text{kW} \leq A^* < 92\text{kW}$
		BJF-E1344-CM(i)	365×195×215	1.9	$92\text{kW} \leq A^*$

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

Dimensions

Outdoor branch joints

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

Indoor branch joints

Model	Gas side joints	Liquid side joints
BJF-224-CM(i)		
BJF-330-CM(i)		
BJF-710CM(i)		
BJF-1344-CM(i)		
BJF-1344-CM(i)		

FMCCVRF2016003.50(60) Hz

