



GUANGDONG CHIGO HEATING & VENTILATION EQUIPMENT CO., LTD.

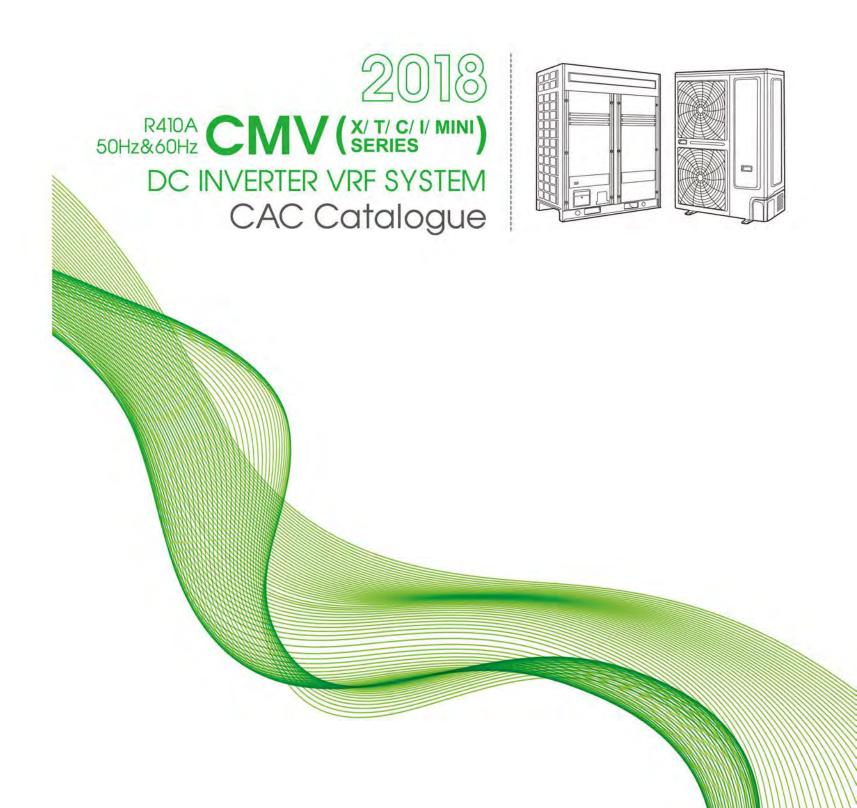
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Note:All the data in this book maybe changed without notice for further improvement on quality and performance.















































SABS certificatio





































CHIGO GROUP

UANGDONG CHIGO AIR CONDITIONING CO.,LTD(Listed Member of Groups, Stock Code:449.HK)established in 1994, a modern professional AC manufacturer with a business line of designing, R&D, manufacturing as well as distributing both residential and commercial AC domestically and internationally.

s one of the biggest AC manufactures in the world, CHIGO's designed annual output are 10 million sets, which include complete series of AC products. We are one of the most complete refrigeration industrial chain. All-in-one production strategy has capacities to meet different customers' demands.

HIGO's annual growth rate is being top all over the AC industry and CHIGO win various strict certificates in all important market. CHIGO has spread its network over 180 countries and regions worldwide.

e have invested large amount of resources to establish advanced reliability labs. CHIGO imposes more stringent pursuit and controls over the quality of finished products.By the highly precise enthalpy difference lab, well-known B&K noise testing device, Switzerland SCHAFFNER EMC device, CHIGO ensure the quality of finished products with those scientificalness of every process.

HIGO is trying hard to be global customer's favorite brand. Through continuous improvement of the product quality and standing with the global partners, we are committed to advocate the low-carbon lifestyle, improve the environment and the life



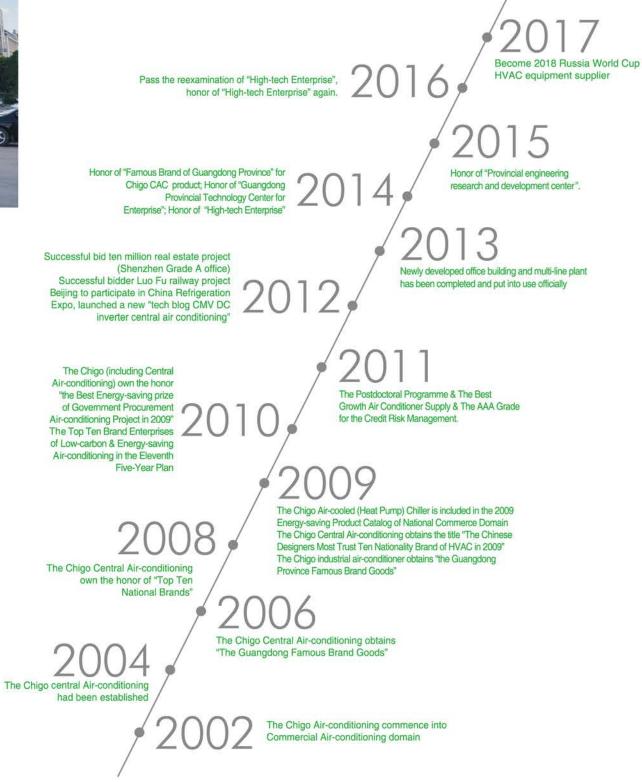
THE CHIGO HEATING & VENTILATION EQUIPMENT CO., LTD.

higo Central Air-conditioning established in 2002, which belongs to GUANGDONG CHIGO AIR CONDITIONING CO.,LTD, a professional Central AC equipment manufacturing and supplying enterprises, with a net of R&D, production,manufac-turing, sales, design, installation and service.

o "Be Professional Central Air-conditioning Supplier", Chigo Central Air-conditioning dedicate to research, design, manuf- acture and sale Central Air-conditioning. During 14 years developing, it has formed an annual production capacity of 1,000,000 sets, and become the most complete refrigeration industrial chain in China. All-in-one Production strategy can meet the various market demand and enable CHIGO to be the biggest scale, the width product line, the most complete product series central air-conditioning enterprise in China.

higo Central Air-conditioning marketing net have covered more than 150 countries and regions all over the world, and set agencies at 31 provinces in China. It has many senior engineers to provide professional design and appropriate service for customers.

Development History





Testing Center

he Testing Center is a comprehensive, multi-functional laboratory, mainly used to engage residential and commercial air-conditioner's performance, safety, reliability and authentication testing. It takes 6000 square meters, 50 million RMB permanent assets.

It has 9 Air-enthalpy Labs, 3 Condition operating labs, 1 Noise Testing Lab, 2 Long-term Operating Labs, Security Structure Analysis Lab, Air Volume Lab; and labs in planning, EMC, Wet State, Thermal Equilibrium, Capacity Testing and so on.











professional training before commencement.

Directory

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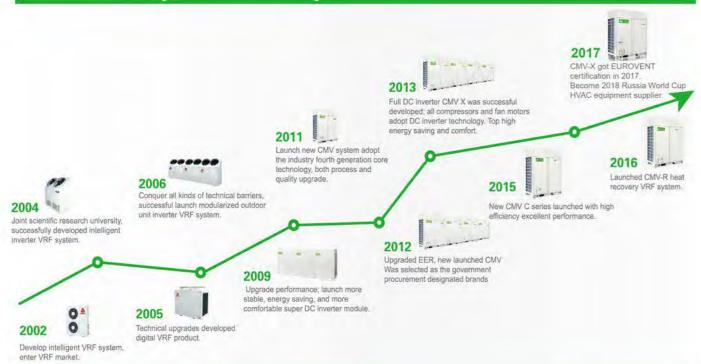
43 Specifications

44 Indoor units

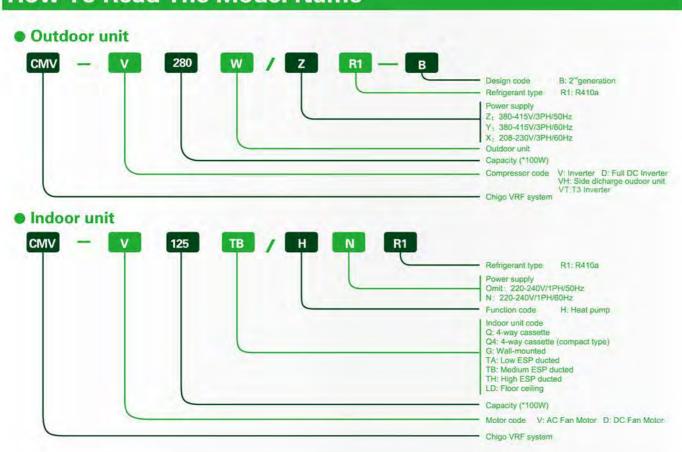
Controls and software

72 Projects

CMV Development History



How To Read The Model Name





Basic Modules

CMV-X is CHIGO's latest generation VRF product, all compressors and fan motors are DC brushless type, so it has more excellent energy efficiency.



EER & COP



IPLV(C)

IPLV: Integrated Part Load Value (ARI 550/590) (C): Cooling condition

The Integrated Part Load Value (IPLV) is a performance characteristic developed by the 8.0 -Air-Conditioning, Heating and Refrigeration Institute (AHRI). It is most commonly used to describe the performance of a AC system capable of capacity modulation. Unlike an EER (Energy Efficiency Ratio) or COP (coefficient of performance), which describes the efficiency at full load conditions, the IPLV is derived from the equipment efficiency while operating at various capacities. Since a 3.0 -VRF system does not always run at 100% capacity, the EER or COP is not an ideal representation of 2.0 the typical equipment performance. The IPLV is a very important value to consider since it can affect energy usage and operating costs throughout the lifetime of the equipment.



				Coolii	ng Capacity	41				
HP	Cooling Capacity(KW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	Max. Connected Indoor Unit Quantity
8	25.2									13
10	28		0							16
12	33.5									16
14	40									20
16	45									20
18	50									20
20	56									24
22	61.5									24
24	67			00						28
26	73									28
28	78						0			28
30	84									32
32	89.5									32
34	95									36
36	101									36
38	106.5									36
40	112							0.0		42
42	117.5									42
44	123								00	42
46	129					0				48
48	134.5					0				48
50	140					-		0.0		54
52	145.5									54
54	151								0.0	54
56	156.5								0.0	58
58	162.5									58
60	168					0			0.0	58
62	173								0.0	64
64	179									64
66	184.5								000	64
68	190.5									64
70	196								0.0	64
72	201.5							0.0		64
74	207								00	64
76	212.5								000	64
78	218									64
80	224					0			0.0	64
82	229.5								000	64
84	234.5								000	64
86	240.5								000	64
88	246								0000	64

Long Piping & Height Difference

- The total pipe length: 1000m
- The longest pipe :
- Actual length 190m
- Equivalent length 220m
- Equivalent length from first indoor distributor to last indoor unit: 90m
- Height deference between indoor and outdoor unit:
- Outdoor unit above <90m
- Outdoor unit below <110m
- Height difference between indoor units: 30m





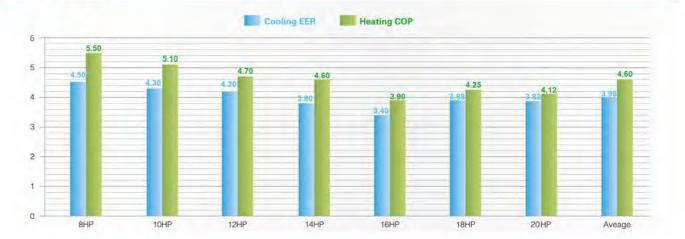
Basic Modules

CMV-X is CHIGO's latest generation VRF product, all compressors and fan motors are DC brushless type, so it has more excellent energy efficiency.



Canada.	8HP	10HP	12HP	14HP	16HP	18HP	20HP
Capacity	25.2kW	28kW	33.5kW	40kW	45kW	50kW	56kW
Compressor	DC	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC
Fan motor	DC.	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC

EER & COP



IPLV(C)

IPLV: Integrated Part Load Value (ARI 550/590) (C): Cooling condition

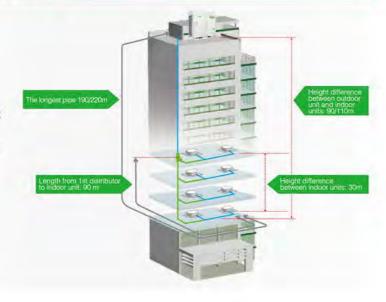
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			C	ooling Cap	acity				
HP	Cooling Capacity(KW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	Max. Connected Indoor Unit Quantity
8	25.2								13
10	28		0						16
12	33.5								16
14	40								20
16	45					0			20
18	50						0		20
20	56								24
22	61.5								24
24	68			0.0					28
26	73								28
28	78								28
30	84								32
32	89.5								32
34	95								36
36	101					0.		•	36
38	106								36
40	112							00	42
42	117.5							0.	42
44	123			00					42
46	129					. 0			48
48	134								48
50	140							00	54
52	145.5			0				90	54
54	152				0			00	54
56	157							00	58
58	162							00	58
60	168						000		58
62	175.2							00	64
64	179			0.0				00	64
66	185							00	64
68	190							00	64
70	196							000	64
72	201.5							000	64
74	207						.0	0.0	64
76	213							000	64
78	218							000	64
80	224							0000	64

Long Piping & Height Difference

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380V - 415V / 50Hz & 60Hz TROPICAL TYPE (T3 TYPE) FULL DC INVERTER VRF SYSTEM

Basic Modules

CMV-T is CHIGO's latest generation VRF product, it has wide operation range, cooling operating temperature is up to 55°C.



Capacity	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP
Сарасну	25.2kW	28kW	33.5kW	40kW	45kW	50kW	56kW	61.5kW
Compressor	DC	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC
Fan motor	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC

EER(T3 CONDITION) & COP





IPLV: Integrated Part Load Value (ARI 550/590) (C): Cooling condition

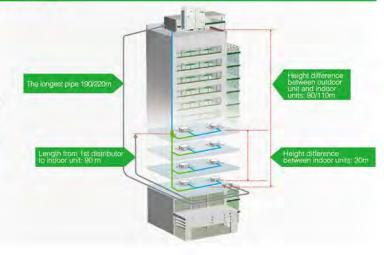
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	Cooling Capacity									
HP	Cooling Capacity(KW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	Max. Connected Indoor Unit Quantity
8	25.2									13
10	28									16
12	33.5									16
14	40									20
16	45					0				20
18	50									20
20	56									24
22	61.5								0	24
24	67			00						28
26	73									28
28	78						0			28
30	84									32
32	89.5									32
34	95									36
36	101									36
38	106.5									36
40	112							0.0		42
42	117.5									42
44	123								0.0	42
46	129		0							48
48	134.5					0			0	48
50	140							00		54
52	145.5									54
54	151								0.0	54
56	156.5								00	58
58	162.5									58
60	168								00	58
62	173								00	64
64	179									64
66	184.5								000	64
68	190.5									64
70	196								0.0	64
72	201.5							0.0		64
74	207								0.0	64
76	212.5		0						000	64
78	218								000	64
80	224					0			0.0	64
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Long Piping & Height Difference

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Basic Modules

CMV -C is a upgraded product base on CMV -II, it has higher energy saving efficiency by adopting high efficiency big displacement compressors.



Consider	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP
Capacity	25.2kW	28kW	33.5kW	40kW	45kW	50kW	56kW	61.5kW
Compressor	DC	DC	DC	DC+FIX	DC+FIX	DC+FIX	DC+FIX+FIX	DC+FIX+FIX
Fan motor	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC

Cooling EER Heating COP 5 4.66 4.94 3.95 3.42 3.42 3.42 3.42 1 1 0 8HP 10HP 12HP 14HP 16HP 18HP 20HP 22HP Aveage

IPLV(C)

IPLV: Integrated Part Load Value (ARI 550/590) (C): Cooling condition

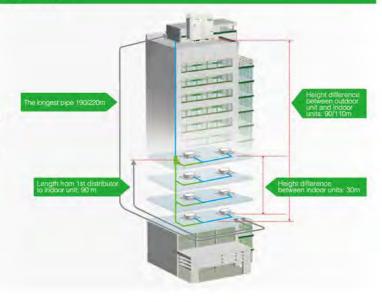
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				Cooli	ng Capaci	ty				-
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8	25.2									13
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12	33.5									16
14	40									20
16	45									20
18	50									20
20	56									24
22	61.5									24
24	67			0.0						28
26	73									28
28	78						0			28
30	84		0							32
32	89.5									32
34	95									36
36	101									36
38	106.5									36
40	112							0.0		42
42	117.5									42
44	123								0.0	42
46	129		0							48
48	134.5									48
50	140		0					0.0		54
52	145.5									54
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64	179								00	64
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68	190.5									64
70	196								0.0	64
72	201.5		.0.					00		64
74	207								00	64
76	212.5		.0						000	64
78	218								000	64
80	223					•			00	64
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8 Models

CMV -i is not a modular product, it is individual type which is developed for those projects need high cost-performance ratio AC equipments.





18/20/22/24HP

26/28/30/32HP

Fan motor		DC+AC			DC+AC+AC+AC				
Compressor		DC+FI	X+FIX			DC+FIX-	+FIX+FIX		
Capacity	53kW	56kW	60W	67kW	73kW	80kW	85kW	90kW	
Capacity	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP	

EER & COP



IPLV(C)

IPLV: Integrated Part Load Value (ARI 550/590) (C): Cooling condition

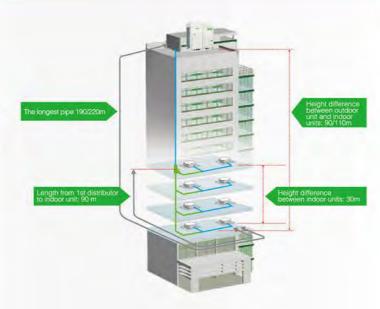
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CMU-mini SMALL CAPACITY FULL DC INVERTER VRF UNIT

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- Height difference between indoor units: 30m





10 Models







12.5/14/16/18kW

22.4/26/28/33.5kW

Capacity	8kW	10kW	12.5kW	14kW	16kW	18kW	22.4kW	26kW	28kW	33.5kW
Compressor	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
Fan motor	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC

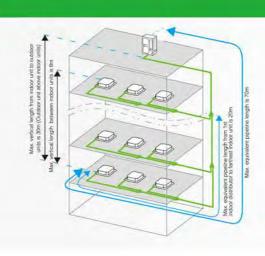
Power type		208-230V	380-415V
50HZ	1 phase	8/10/12.5/14/16kW	
30/12	3 phase		12.5/14/16/18/22.4/26/28/33.5kW
60HZ	1 phase	8/10/12.5/14/16kW	
OUNZ	3 phase		12.5/14/16/18/22.4/26/28/33.5kW

EER & COP



Long Piping & Height Difference

- The total pipe length: 100m (8-18kW), 120m (22.4-33.5kW)
- The longest pipe :
- Actual length 60m
- Equivalent length 70m
- Equivalent length from first indoor distributor to last indoor unit: 20m
- Height deference between indoor and outdoor unit:
- Outdoor unit above <30m
- · Outdoor unit below <20m
- Height difference between indoor units: 8m



CMV-X CMV-T CMV-C CMV-I



- High Efficiency
- Benefits For Users
- Benefits For Installers

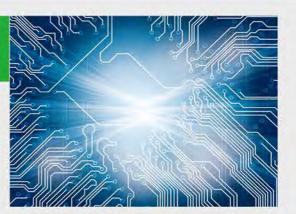


Advantages

High Efficiency

Low carbon life advocate

Chigo CAC always focus on low-carbon energy-saving products development, and spare no effort for technological research and development, to become a practitioner and advocate of low-carbon technology!



Core Technologies Make High Efficiency

CMV-X	CMV-T	CMV-C	CMV-I
•			



High Efficiency DC Inverter Compressor

CMV-X CMV-T CMV-C CMV-1

- From Hitachi, famous inverter compressor manufacture.
- R410a ECO friendly refrigerant.
- Small torque fluctuation, low vibration and quiet operation.
- High efficiency due to its patent internal structure design.
- Internal oil circulation structure.
- High Reliability.
- Wide rotation speed range.



- High pressure chamber
 Has small suction superheat and high refrigerant volume efficiency
 Has large refrigerant discharge buffer volume, Low vibration and noise
 - Continu



Differential pressure oil film control technology, reducing noise and improving gas tightness

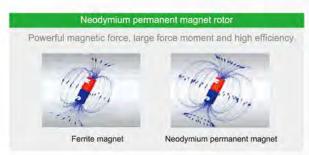
Special scroll design for R410a

High precision processing, improving compression efficiency by 15%

Concentrated winding, improving low frequency efficiency

High strength bearing, high rigidity shell

- Neodymium permanent magnet rotor, has powerful magnetic force, large torque and high efficiency.
- Concentrated winding, improving low frequency effciency.





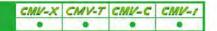
High Efficiency DC Motor

CMV-X	CMV-T	CMV-C	CIVIV-1
•		0	

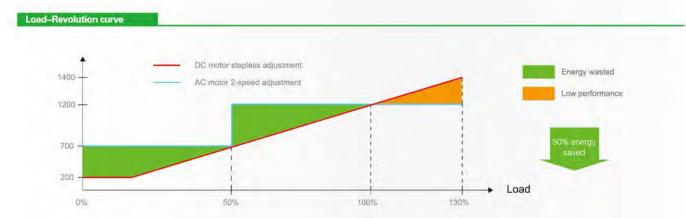
- High efficiency DC fan motor is from well-known brand.
- Low noise and high efficiency because of high-density wire winding engineering.
- Brushless with built-in sensor.



Stepless Control



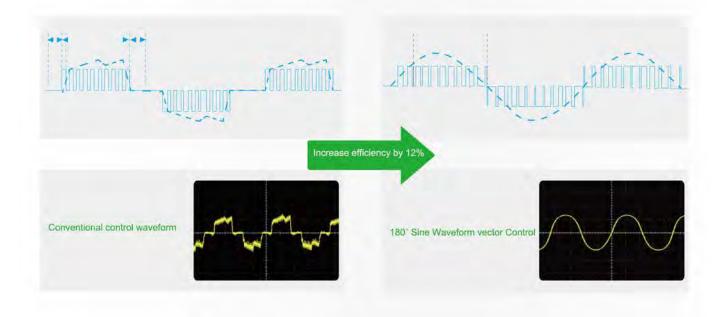
DC fan motor can be stepless controlled by outdoor PCB according to system's operating pressure. And it is able to reduce the energy consumption and maintain the system in the best performance.



180° Sine Waveform Control

CMV-X	CMV-T	CMV-C	CMV-1
•		•	

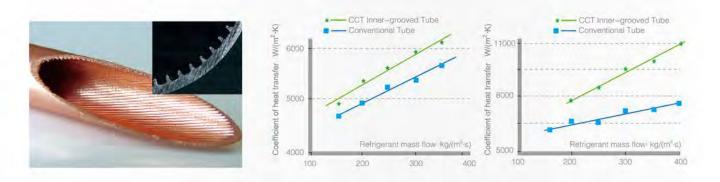
The perfect combination of 180°Sine waveform rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.



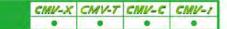
CCT Inner-grooved Tube

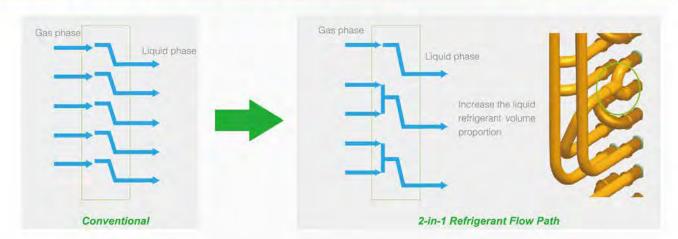
CMV-X CMV-T CMV-C CMV-I

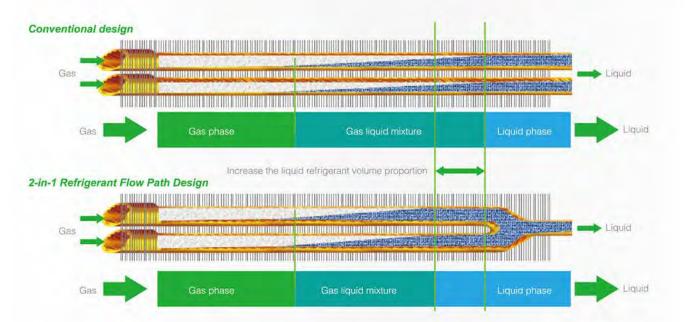
CCT(Continuous Cooling Transformation) inner-grooved copper tube has high thermometic conductivity. This inner-grooved fins break the refrigerant flow boundary layer to enhance refrigerant disturbance to increase heat-exchanging efficiency.



2-in-1 Refrigerant Flow Path Design







Supercooling Flow Path Design

CMV-X CMV-T CMV-C CMV-1

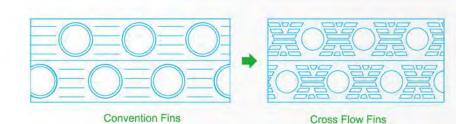
Supercooling flow path design, separates the refigerant inlet and outlet, increase the supercooling degree, reduce the effect of high temperature inlet gas refrigerant to low temperature outlet liquid refigerant, therefore, the system efficiency will be greatly increased.

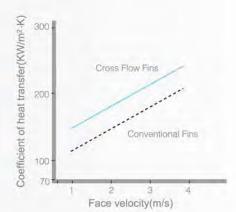


Cross Flow Fins

CMV-X CMV-T CMV-C CMV-1

- Has low air resistance and great heat transfer coefficient.
- Frosting improved, frost on the heat-exchanger will be well-distributed, easy for defrosting.

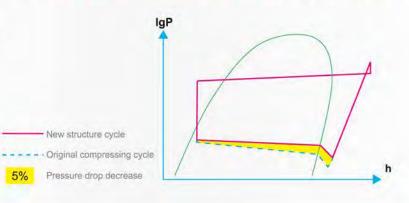




Low Resistance Internal piping

CMV-X CMV-T CMV-C CMV-1

- Thanks to the optimization pipeline design,
 5% pressure drop are reduced.
- EER and COP increase, because of evaporating temperature increase and compressor work decrease.



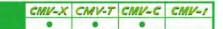
Benefits For Users

Livable environment creator

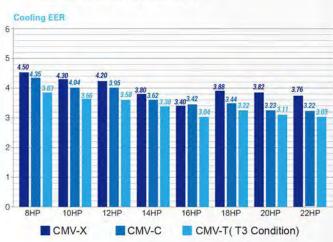
Chigo focuses on starting point of AC system: create a friendly, comfortable and pleasant living environment as always. New CMV DC VRF system's comfort technologies include quick cooling and heating, precise temperature control, low noise, use environmental friendly refrigerant and so on, we strive to create livable environment for users......



Excellent in EER and COP

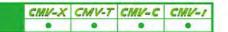


Thanks to DC devices(compressor and motor), piping optimization design and new refrigerant control logic, system's EER and COP are significantly increase.

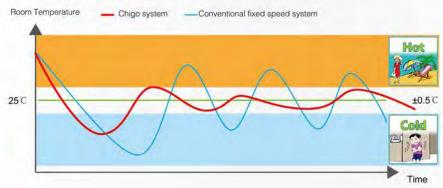




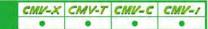
Outstanding Comfort Ability



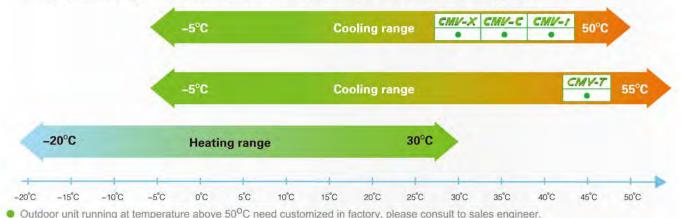
- Chigo CMV system have excellent cooling & heating performance, thanks to the high efficiency DC fan motor, DC compressor and optimized refrigerant flow control logic.
- Precisely room temperature control by adopting 2000 pulse EXV. Indoor temperature fluctuation can be maintain within 0.5 °C, offers outstanding comfort ability.



Wide Operation Range



- Cooling operating temperature is up to 50°C, suitable for the hot region. For T3 VRF units, the cooling operating temperature is up to 55°C.
- Heating operating temperature is down to -20°C. In the cold winter, CMV system can stably produce heat.



7 Improvements To Reduce Noise

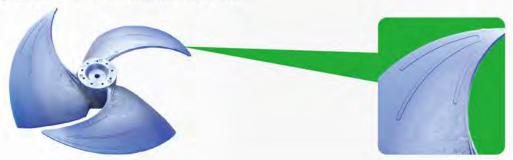
Maximum 10dB(A) of operating sound decrease.



Low Noise Fan Blade

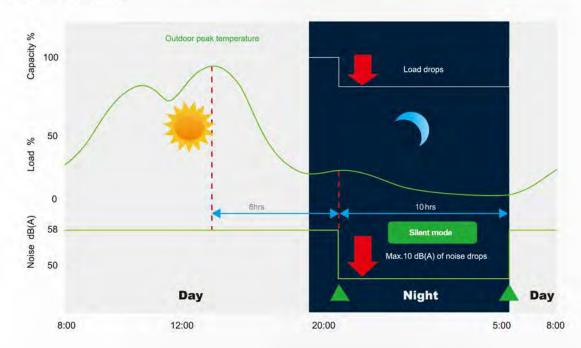
CMV-X	CMV-T	CMV-C	CIVIV-1
•			

- Anti-vibration forward fan blade.
- Special design to reduce the air vibration and disturbance.



Silent Mode, Night Time Noise Control

- CMV-X CMV-T CMV-C CMV-1
- Compressor and fan motor rotating speed can be reduced to lower the noise at night.
- Maximum 10dB(A) decrease.



Snow-proof Function

- CMV-X CMV-T CMV-C CMV-1
- In the cold weather, outdoor fan will start to run for a while at intervals, for preventing the snow to accumulate on fan blade. Because accumulated snow will freeze and block fan blade rotating, even worse it will damage the motor.
- It only start when temperature is lower than 0 C.



The PHE Economizer

CMV-X CMV-T CMV-C CMV-1

- PHE Economizer technology provide a additional sub cooling
- Improved heat exchanger + PHE economizer + Optimized control logic
- Heating performance highly increased



The PHE economizer need customization.

3-stage Back Up Function

- Module back up function.
- When some modules are failure, the others can keep running by simply settings.

MV-X	CMV-T	CMV-C	CMV-1	VV	1	1
•		•		^ ^	V	-



- Compressor back up function
- When one compressor is failure, the other one can keep running by simply settings.





- Fan motor back up function.
- When one fan motor is failure, the other onecan keep running by simply settings.

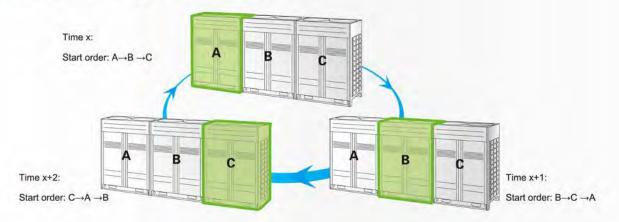




All Outdoor Units Cycle Operation

CMV-X	CMV-T	CMV-C	CMV-I
		0	

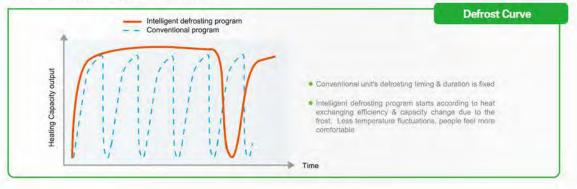
- . In one combination system, any outdoor unit can run as master unit.
- Balance the lifespan among outdoor units in one system.



Intelligent Defrosting Program

CMV-X	CMV-T	CMV-C	CMV-1
	•		

Program starts only when unit needs to. Whereas conventional unit's defrosting timing & duration is fixed, causing fluctuations in temperature and personal comfort.



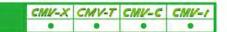
Remote ON/OFF Control Function

CMV-X CMV-T CMV-C CMV-I

- Indoor units standard build in with ON/OFF control port.
- It can be used for hotel card control and also can be used for long distance remote ON/OFF control. And no need additional hotel VRF indoor unit control module.
- When contactor is open (card pulled out), indoor unit will be off can not be controlled, current running parameters will be saved in indoor PCB.
- When contactor is close (card insert), indoor unit will recover pervious running state



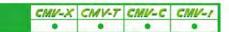
Emergency Stop Operation Function



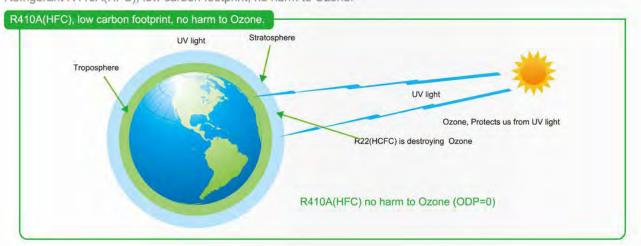
Outdoor unit have a fire alarm linkage signal control function. When emergency situation can stop the whole AC system.



Environment Friendly



Refrigerant R410A(HFC), low carbon footprint, no harm to Ozone.



Benefits For Installers



Optimization for designer and installer

CMV DC inverter VRF system is designed with flexible modular combination concept, we keep optimizing the module size, reduce equipment on space occupied to meet the demand of designer and installer. Some unique technologies are used for our installers to reduce their working load, installation is becoming easier and easier!

4 Units Combination, Capacity Up To 88HP CMV-X CMV-T CMV-C CMV-I

Max. outdoor units can be combined into a bigger system, capacity can be up to 88HP.



Individual Type, Saving Installation Work

CMV-X	CMV-T	CMV-C	CMV-I

Individual type outdoor unit is already combined in chigo factory, installer can save outdoor unit combination work.



Adjustable Outdoor Fan Static Pressure

СМУ-Х	CMV-T	CMV-C	CMV-I
•			

- Thanks to DC fan motor, the external static pressure of outdoor fan is adjustable.
- Autdoor units can be installed in the service floor or facility room.
- Maximum ESP 85Pa.

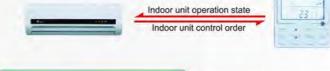


Bidirectional Communication Wired Controller



- Bidirectional communication. Indoor unit's operating parameters (error code, temperature, address) can be inquired and displayed on the controller.
- Compact design.
- Timer function.

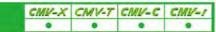
User can check the error code and inquiry unit status very easy, safe and convenient.







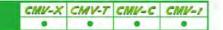
Touch Screen Wired Controller



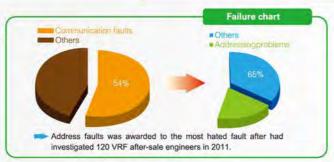
- APP remote control by WIFI.
- Air filter cleaning reminding function.
- Touch screen with black background and white light
- Ultra thin body and stylish design meet high-end environments.
- On/off, temperature setting, fan speed setting, mode setting, timer and check function.



Automatic Addressing



- Automatic addressing will reduce artificial faults by 35% and 5% manual works.
- . 54% system failure were caused by communication faults.
- . 65% communication faults were caused by address problems.
- . Most of the address problems were: address setting forgotten, wrong settings, address repeat.



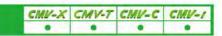
Addressing Methods

CMV-X CMV-T CMV-C CMV-1

- 2 addressing methods:
- · Automatically addressing: system will distribute address to indoor unit automatically.
- . Manually setting by wireless remote controller.
- Addressing method can be selected easily by adjusting the switch on outdoor PCB.



LED Display On The PCB



CMV-X CMV-T CMV-C CMV-I

LED display on the PCB, it can show system's operation status and error codes.

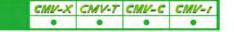


Service Window

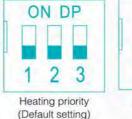
Thanks to the service window, checking outdoor unit's status and setting is now easy, no need to remove the electric control box cover.



Mode Restriction

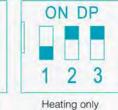


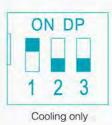
- 5 kinds of mode restriction
- · First start indoor units priority mode.
- · Cooling(or heating)priority mode.
- · Cooling only(or heating only)mode.
- Mode restriction function can be selected on the outdoor PCB.









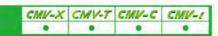


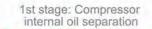
Humanized Internal Structure

- CMV-X CMV-T CMV-C CMV-1
- All key components are designed to close to outside, it is convenient for repair and replacement.
- Thanks to the new balance technology, gas balance pipe does no longer exist, brazing points and leaking risk are decreased.



6-Stage Oil Control







4th stage: Oil balance between compressors



2nd stage: Oil return from the oil even pipe



5th stage: Oil balance between outdoor units

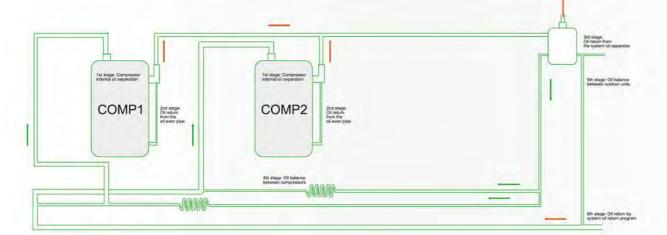


3rd stage: Oil return from the system oil separator



6th stage: Oil return by system oil return program

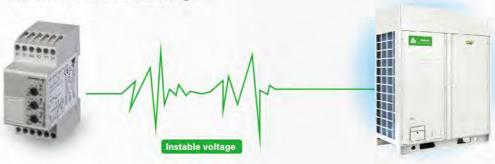




3-Phase Power Protector (Optional)



Protect the outdoor unit from instable voltage.



Easy Installation

CMV-X	CMV-T	CMV-C	CMV-1
•	•		

 Easy for the outdoor unit to transport to roof floor by elevator due to its compact size.



Use 2-Core Shielded Wire As Signal Wire

CMV-X	CMV-T	CMV-C	CMV-1
•			

- Save installation cost.
- Reduce manual works.





						Basic	modules								2	modules co	ombination				
	HP		08	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
Model Name	380~415V/3 380~415V/3		CMV-D252W/ZR1 CMV-D252W/YR1	CMV-D280W/ZR1 CMV-D280W/YR1	CMV-D335W/ZR1 CMV-D335W/YR1	CMV-D400W/ZR1 CMV-D400W/YR1	CMV-D450W/ZR1 CMV-D450W/YR1	CMV-D500W/ZR1 CMV-D500W/YR1	CMV-D560W/ZR1 CMV-D560W/YR1	CMV-D615W/ZR1 CMV-D615W/YR1	CMV-D670W/ZR1 CMV-D670W/YR1	CMV-D730W/ZR1 CMV-D730W/YR1		CMV-D840W/ZR1 CMV-D840W/YR1	CMV-D895W/ZR1 CMV-D895W/YR1	CMV-D950W/ZR1 CMV-D950W/YR1			CMV-D1120W/ZR CMV-D1120W/YR	1 CMV-D1175W/ZR1	
Max. Connected	indoor units o	quantity	13	16	16	20	20	20	24	24	28	28	28	32	32	36	36	36	42	42	1/2
Performance																					
		KW	25.2	28.0	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.0	78.0	84.0	89.5	95.0	1.01.0	106.5	112.0	117.5	123.0
	Capacity	Btu/h	85000	95000	114000	136000	153000	170000	191000	209000	228000	249000	266000	286000	305000	324000	344000	363000	382000	400000	419000
Cooling		RT	7.1	7.9	9.5	11.3	12.7	14.2	15.9	17.4	19.0	20.7	22.1	23.8	25.4	27.0	28.7	30.2	31.8	33.4	34.9
o doming	Power input	KW	5,60	6.51	7.98	10.53	13.24	12.89	14.66	16.36	15.95	19.75	19.33	21.02	22.96	24.42	27.74	29.68	29.02	30.95	32.89
	EER	W/W	4.50	4.30	4.20	3.80	3.40	3.88	3.82	3.76	4.20	3.70	4,03	4.00	3.90	3.89	3.64	3.59	3.86	3.80	3.74
		KW	27.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	81.5	87.5	94.5	100.5	106.5	113.0	119.0	126.0	132.0	138.0
	Capacity	Btu/h	93000	107000	127000	153000	170000	191000	214000	235000	255000	278000	298000	322000	342000	363000	385000	406000	429000	450000	470000
Heating	Power input	kW	4.98	6.18	7.98	9.78	12.82	13.18	15.29	17.12	15.96	19.00	19.35	21.47	23,30	25.10	28.11	29.94	30.58	32.41	34.24
	COP	W/W	5.50	5.10	4.70	4.60	3.90	4.25	4.12	4.03	4.70	4.29	4.52	4.40	4,31	4.24	4.02	3.97	4.12	4.07	4.03
Physical data		, ,,,,,,	4.00			1.55							11794	1000		1.2			1110		
	Quantity 1DC 2DC		1DC+1DC		1DC	+2DC		1		200	+2DC										
Compressor	Туре					Hermal	tic scroll				Hermatic scroll										
	Type					R4										R410A					
Refrigerant	Throttle type						KV.				EXV										
	Volume	Kg	1	0	12		4	16	16.5	17											
	Type					DCr	notar		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							DC motor					
Motor	Quantity						.2	DC			2DC+2DC		100	+2DC				200	+2DC		
	ESP	Pa									22.5383			175,31		85					
Dimension	Net	mm	970×7	65×1620		1260×765×7620)		1349×765×1620										1		
(W×D×H)	Packing	mm	1030×8	825×1750		1315×825×1750)		1405×825×1780										1.		
Net w	veight	Kg	- 2	208	242	.21	36	295	312	323									Í-		
Sound pres		dB(A)			58	6	0	60		63									1		
Piping data		11.24.4																			
Total equivaler	ent Liquid	mm	Ø9.52	01	12.7	Ø15	88				Ø15.88		01	9.05				01	9.05		
oipeline length <		mm	022.2		25.4	02	3.6		Ø31.80		Ø31.80		03	4.90				Ø3	8.10		
Total equivaler		mm		012.7		Ø15.88			Ø19.05		Ø19.05			2.20					2.20		
pipeline length ≥	avelore				Ø34.90			8.10					1,30								
Oil balas	Oil balance pipe mm			96.35																	

Notes:1. Gooling operating temperature range is from -5°C to 50°C. Heating operating temperature range is from -20°C to 30°C.

- The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB autdoor side 35°C(95°F) DB
 The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB autdoor side 7°C(42.8°F)DB
- 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 5. The above data may be changed without notice for future improvement on quality and performance.

							3 modules	combinatio	1			3 modules	combination					4	modules	combinatio	n			
	HP		46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88
Model Name	1			1 CMV-D1345W/ZR1 1 CMV-D1345W/YR1			100000000000000000000000000000000000000				A STATE OF THE STA	4200000000	1 CMV-D1845W/ZR 1 CMV-D1845W/YR			5000 0000 1700				7				
Max. Connected	indoor units qu	lantity.	48	48	54	54	54	58	58	58	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Performance	data																							
	1	KW	129.0	134.5	140.0	145.5	151.0	156.5	162.5	168.0	173.0	179.0	184.5	190,5	196.0	201.5	207.0	212,5	218.0	224.0	229.5	234.5	240.5	246.0
	Capacity	Btu/h	440000	458000	477000	496000	515000	533000	554000	573000	590000	610000	629000	649000	668000	687000	706000	725000	743000	764000	783000	800000	820000	839000
Cooling		RT	36.6	38,2	39,8	41.3	42.9	44.4	46.2	47.7	49,1	50.8	52.4	54.1	55.7	57.2	58,8	60.4	61.9	63.6	65.2	66.6	68.3	69.9
	Power input	KW	34.25	36.19	35.53	37.46	39.40	40.86	44.19	46.12	45.7	47.40	49.33	50.70	52.63	51,97	53.91	55.84	57.31	60.63	62.57	62.15	63.84	65.78
	EER	W/W	3.77	3,72	3.94	3.88	3.83	3.83	3.68	3.64	3,78	3.78	3.74	3.76	3.72	3.88	3.84	3.81	3.80	3.69	3.67	3,77	3.77	3.74
	Capacity	KW	744.5	150,5	157.5	163.5	169.5	175.5	182.0	188.0	194.0	201.0	207.0	213.5	218.0	226.5	232.5	238.5	244.5	251.0	257:0	263,0	270.0	276.0
Heating	Capacity	Btu/h	493000	513000	537000	557000	578000	598000	620000	641000	661000	685000	706000	728000	743000	772000	793000	813000	834000	856000	876000	897000	921000	941000
nealing	Power input	kW	34.29	36.12	36.76	38.59	40.42	42.22	45.23	47.06	47.42	49.53	51.36	51.41	53.24	53.88	55.71	57.54	59.34	62.35	64.19	64.54	66.66	68.49
	COP	W/W	4.23	4.17	4.28	4.24	4.19	4.16	4.02	3.99	4.09	4.06	4.03	4.15	4.09	4.20	4.17	4.14	4.12	4.03	4.00	4.07	4.05	4.03
Physical dat	a																							
	Quantity		1		1DC+	2DC+2DC				20	C+2DC+2DC					1DC+2DC	+ZDC+2DC					2DC+2DC+2DC	+2DC	
Compressor	Type						Hermatic scrol	1											Hermatic scro	1				
	Type						R410A							R410A										
Refrigerant	Throttle type						EXV							EXV										
	Volume	Kg					1												1					
	Type						DC motor							DC mater										
Motor	Quantity				TDC+2DC+2DC					20	C+2DC+2DC			1DC+2DC+2DC+2DC 2DC+2DC+2DC+2DC+2DC+2DC+2DC+2DC+2DC+2DC+										
	ESP	Pa					85												85					
Dimension	Net	mm					1												1					
(W×D×H)	Packing	mm					1												1					
Net	veight	Kg					1												1					
Sound pre	ssure level	dB(A)					1												1					
Piping data																								
Total equivale	ent Liquid	mm	0	19.05				e	22.2				Ø25.4	2	25.4						025.4			
pipeline length <		mm	0	38,10				2	44.5				044.5	4.5 Ø44.5 Ø54.0										
Total equivale	ent Liquid	quid mm 022.20 025.4							025.4	025.4														
pipeline length ≥	90m Gas	mm	mm Ø41.30 Ø44.5								Ø54.0	054.0												
Oil bala	nce pipe	mm	mm Ø6.35								06.35													

Notes:1. Cooling operating temperature range is from -5°C to 50°C. Heating operating temperature range is from -20°C to 30°C.

- 2. The cooling conditions: Indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB

 3. The healing conditions: Indoor side 27°C(68°F) DB, 19°C(60°F)WB outdoor side 35°C(928°F) DB

 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

 5. The above data may be changed without notice for future improvement on quality and performance.



CMV-7 380V - 415V / 50Hz & 60Hz TROPICAL TYPE (T3 TYPE) FULL DC INVERTER VRF SYSTEM

						Basic	modules								- 3	2 modules co	mbination				
	HP		08	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
Model Name	380~415V/3F		CMVT-D252W/ZR1	CMVT-D280W/ZR1	CMVT-D335W/ZR1	CMVT-D400W/ZR1	CMVT-D450W/ZR1	CMVT-D500W/ZR1	CMVT-D560W/ZR1	CMVT-D615W/ZR1 CMVT-D615W/YR1	CMVT-D670W/ZR1				Omit Edgamizm			CMVT-D1065W/ZR1	1		
Max. Connecte	380~415V/38		CMVT-D252W/YR1	CMVT-D280W/YR1	CMVT-D335W/YR1	CMVT-D400W/YR1	CMVT-D450W/YR1	CMVT-D500W/YR1 20	CMVT-D560W/YR1	24	CMVT-D670W/YR1	28	79	CMVT-D840W/YR1	CMVT-D895W/YR	35	CMV1-D1010W/TK	1 CMVT-D1065W/YR1	42	A2	1 CMV1-D1230W/YR1
Performano	Control of the Contro	(aarnity	19	10	10	20	20	20	24		200	20	20	444	26	30	30	30	75	1 44	114
1 Citorinano	- Liutu	KW	25.2/22.9	28/25.4	33.5/30.35	40/36.3	45/40.85	50/45:4	56/50.85	61.5/55.75	67/60.7	73/66.25	78/70.8	84/76.25	89.5/81.15	95.0/86.1	101.0/91.7	106.5/96.6	112.0/101.7	117.5/106.6	123.0/111.5
	Capacity	Btu/h	85000/78000	95000/86400	114000/103200	136000/123400	153000/138900	170500/154900	191000/173500	209800/190200	228000/206400		266000/241300	285000/259900	305000/276600	324000/293400	344000/312400	363000/329100	382000/347000	400000/363700	419000/380400
Cooling	200000	RT	7.1/6.5	7.9/7.21	9.5/8.62	11.3/10.3	12.7/11.6	14.2/12.9	15.9/14.5	17.5/15.9	19/17.24	20.7/18.81	22:1/20.11	23.8/21.71	25.4/23.11	27/24.52	28.7/26.1	30.2/27.5	31.8/29	33.4/30.4	34.9/31.8
(T1/T3)	Power input	KW	5.6/5.98	6.51/6.94	7.98/8.48	10.53/10.74	13.24/13.44	12.89/14.1	14.66/16.35	16.36/18.4	15.95/16.96	19.75/20.38	19.33/21.04	21.02/23.29	22.96/25.34	24.42/26.88	27.74/29.79	29.68/31.84	29.02/32.7	30.95/34.75	32.89/36.8
	EER	W/W	4.5/3.83	4.3/3.66	4.2/3.58	3.8/3.38	3.4/3.04	3.88/3.22	3.82/3.11	3.76/3.03	4.20/3.57	3.70/3.25	4.03/3.37	4/3.27	3.90/3.20	3.89/3.20	3.64/3.07	3.59/3.03	3.86/3.11	3.80/3.06	3.74/3.03
		KW	27.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	81.5	87.5	94.5	100.5	106.5	113.0	119.0	126.0	132.0	138.0
	Capacity	Btu/h	93000	107000	127000	153000	170000	191000	214000	235000	255000	278000	298000	322000	342000	363000	385000	406000	429000	450000	470000
Heating	Power input	kW	4.98	6.18	7.98	9.78	12.82	13.18	15.29	17.12	15.96	19.00	19.35	21.47	23.30	25,10	28.11	29.94	30.58	32.41	34.24
	COP	W/W	5.50	5.10	4.70	4.60	3.90	4.25	4.12	4.03	4.70	4.29	4.52	4.40	4.31	4.24	4.02	3.97	4.12	4.07	4.03
Physical da	ita	7.00											1				4	4			
100.	Quantity		IDC 2DC						1DC+1DC		1DC	+2DC				200	+2DC				
Compressor	Type					Hermal	tic scroll	200				,	123			Hermatic scro	II.				
	Type					R4						R410A									
Refrigerant	Throttle type					E	KV.					EXV									
	Volume	Kg	1	0	12	1	4	16	16.5	17		/									
	Type					DCr	notar					DC motor									
Motor	Quantity						- 2	DC			2DC+2DC										
	ESP	Pa				3	15									85					
Dimension	Net	mm	970×7	65×1620		1349×765×1620)		1349×765×1620										/		
(W×D×H)	Packing	mm	1030×8	325×1750		1405×825×1780)		1405×825×1780										1.		
Net	weight	Kg	2	208	242	21	36	295	312	323									F-		
Sound pr Piping data	essure level	dB(A)			58	6	0	60		63									1		
Total equival		mm	Ø9.52	Ø1	27	015	.88				Ø15.88		Ø1	9.05				01	9.05		
pipeline length	< 90m Gas	mm	Ø22.2	07	25.4	02	8.6		Ø31.80		Ø31.80		03-	4.90				Ø3	8.10		
Total equival	ent Liquid	mm Ø12.7 Ø15.88 Ø19.05				Ø19.05		02:	2.20				Ø2	2.20							
pipeline length		mm 025.4 028.6 031.8 031.80					Ø34.90		Ø3	8.10				04	1,30						
Oil bala	ance pipe	mm /						06.35													

Notes:1. Cooling operating temperature range is from -5°C to 55°C. Heating operating temperature range is from -20°C to 30°C

- 2. The cooling conditions: T1 condition: indoor side 27°C(80.6"F) DB, 19°C(80.F) WB, outdoor side 35°C(95°F) DB; T3 condition: indoor side 27°C(80.6"F) DB, 19°C(60°F) WB, outdoor side 46°C(114.8"F) DB.
- 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB
 4. Sound level; measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhal higher as a result of ambient conditions, 5. The above data may be changed without notice for future improvement on quality and performance.

							3 modules	combination	1			3 modules	combination					4	modules o	combination	iv.			
	HP		46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88
Model Name	380~415V/3F	PH/50Hz	CMVT-D1290W/ZR1	CMVT-D1345W/ZR	1 CMVT-D1400W/ZR1	CMVT-D1455W/ZR	1 CMVT-D1510W/ZR	CMVT-D1565W/ZR1	CMVT-D1625W/ZR1	CMVT-D1680W/ZR1	CMVT-D1730W/ZR1	CMVT-D1790W/ZR	1 CMVT-D1845W/ZR	CMVT-D1905W/ZR1	CMVT-D1960W/ZR1	CMVT-D2015W/ZR1	CMVT-D2070W/ZR1	CMVT-D2125W/ZR1	CMVT-D2180W/ZR	1 CMVT-D2240W/ZR1	CMVT-D2295W/ZR	1 CMVT-D2345W/ZR	1 CMVT-D2405W/Z	R1 CMVT-D2460W/Z
Model Name	380~415V/3F	PH/60Hz	CMVT-D1290W/YR	CMVT-D1345W/YR	1 CMVT-D1400W/YR1	CMVT-D1455W/YR	1 CMVT-D1510W/YR	CMVT-D1565W/YR1	CMVT-D1625W/YR1	CMVT-D1680W/YR1	CMVT-D1730W/YR1	CMVT-D1790W/YR	1 CMVT-D1845W/YR	CMVT-D1905W/YR1	CMVT-D1960W/YR	CMVT-D2015W/YR1	CMVT-D2070W/YR1	CMVT-D2125W/YR1	CMVT-D2180W/YR	1 CMVT-D2240W/YR1	CMVT-D2295W/YR	1 CMVT-D2345W/YR	R1 CMVT-D2405W/Y	R1 CMVT-D2460W/Y
Max. Connected	indoor units qu	uantity.	48	48	54	-54	54	58	58	.58	64	64	54	64	64	64	64	64	64	64	64	64	64	64
Performance	data																							
		KW	129.0/117.1	134.5/122	140.0/127.1	144.5/132	151.0/136.9	156.5/141.85	162.5/147.45	168.0/152.35	173.0/156.9	179.0/162.35	184.5/167.25	190.5/172.85	196.0/177.75	201.5/182.85	207,0187.75	212.5/192.65	218/197.6	224/203.55	229.5/208.1	234.5/212.65	240.5/218.1	246/223
Cooling	Capacity	Btu/h		458000/415500	4.77000/433400	496000/450100	515000/466800	533000/483600	554000/502600	573000/519300	590000/535300	.61000/553900	629000/570600	649000/589000	668000/605700	687000/623600	706000/640300	725000/657000	743000/67380	764000/694000	783000/709500	800000/72550	0 820000/74410	
(T1/T3)		RT	36.6/33.31	38.2/34.71	39.8/36.21	41.3/37.61	42.9/39.01	44.4/40.42	46.2/42	47.7/43.4	49.1/44.7	50,8/46,3	52.4/47,7	54.1/49.21	55,7/50.61	57.2/52.11	58,8/53.51	60,4/54.91	61,9/56.32	63,6/58	65.2/59.3	66,6/60,6	68,3/62.2	69.9/63.6
11111101	Power input	KW	34.25/36.73	36,19/38.78	35,53/39.64	37.45/41.69	39.40/43.74	40.86/45,28	44.19/48.19	46.12/50.24	45.7/50.9	47.40/53.15	49,33/55.2	50.70/55.13	52.63/57.18	51.97/58.04	53.91/60.09	55.84/62.14	57.31/63.68	60.63/65.94	62.57/68.64	62.15/69.3	63.84/71.55	65.7873.6
	EER	W/W	3,77/3.19	3.72/3.15	3.94/3.21	3.88/3.17	3.83/3.13	3.83/3.13	3.68/3.06	3.64/3.03	3.78/3.08	3.78/3.05	3,74/3.03	3.76/3.14	3.72/3.11	3,88/3,15	3.84/3.12	3.81/3.10	3,80/3,1	3,59/3,09	3.67/3.03	3.77/3.07	3,77/3.05	3,74/3,03
	Capacity	KW	144.5	150.5	157.5	163.5	169.5	175.5	182.0	189.0	194.0	201.0	207.0	213,5	218,0	226.5	232.5	238.5	244.5	251.0	257.0	263.0	270.0	276.0
Heating	Suparity	Btu/h	493000	513000	537000	557000	578000	598000	620000	641000	661000	685000	706000	728000	743000	772000	793000	813000	834000	856000	876000	897000	921000	941000
	Power input	kW	34.29	36.12	36.76	38.59	40.42	42.22	45.23	47.06	47.42	49,53	51.36	51.41	53.24	53.88	.55.71	57:54	.59.34	62.35	64.19	64.54	66.66	68.49
	COP	W/W	4.21	4.17	4.28	4.24	4.19	4.16	4.02	3.99	4.09	4.06	4.03	4.15	4.09	4.20	4.17	4.14	4.12	4.03	4.00	4.07	4.05	4.03
Physical dat	a																							
Compressor	Quantity				1DC+2	DC+2DC				2D0	C+2DC+2DC					1DC+2DC-	+ZDC+ZDC					2DC+2DC+2DC	C+ZDC	
Compressor	Type						Hermatic scro	II.											Hermatic scro					
	Type						R410A												R410A					
Refrigerant	Throttle type						EXV												EXV					
	Volume	Kg					1												1					
	Type		1				DC motor												DC motor					
Motor	Quantity				1DC+2DC+2DC					2D0	C+2DC+2DC				1D	C+2DC+2DC+2D	C				2DC+2DC+2	DC+2DC		
	ESP	Pa					85												85					
Dimension	Net	mm					1												1					
(W×D×H)	Packing	mm					J												1					
Net v	veight	Kg					1												1					
Sound pre	ssure level	dB(A)	4				1												1					
Piping data																								
Total equivale		mm		19.05					22.2				1025.4		25.4						125.4			
pipeline length <	90m Gas	mm		38,10					44.5				044.5	0	44.5					-(954.0			
Total equivale		mm		22.20					25.4				Ø25.4						Ø25.4					
oipeline length ≥		mm	Ø	41,30				Ø	44.5				Ø54.0						Ø54.0					
Oil bala	nce pipe	mm					Ø6,35												Ø6,35					

Notes:1. Cooling operating temperature range is from -5°C to 55°C. Heating operating temperature range is from -20°C to 30°C

- 2. The cooling conditions: T1 conditions indoor side 27°C(80.8°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB. 19°C(60°F) WB, outdoor side 46°C(114.8°F) DB.

 3. The heating conditions: Indoor side 20°C(68°F) DB, 15°C(44.6°F) WB outdoor side 7°C(42.8°F) DB.

 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhal higher as a result of ambient conditions.

 5. The above data may be changed without notice for future improvement on quality and performance.



					Bas	ic modules									2 modules cor	nbination					
	HP		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
Model Name	208~230V/3P	H/60Hz	CMV-D252W/XR1	CMV-D280W/XR1	CMV-D335W/XR1	CMV-D400W/XR1	CMV-D450W/XR1	CMV-D500W/XR1	CMV-D560W/XR1	CMV-D615W/XR1	CMV-D670W/XR1	CMV-D730W/XR1	CMV-D780W/XR1	CMV-D840W/XR1	CMV-D895W/XR1	CMV-D950W/XR1	CMV-D1010W/XR1	CMV-D1060W/XR1	CMV-D1120W/XR	1 CMV-D1175W/XR	R1 CMV-D1230W/XF
Max. Connected	indoor units qu	antity	13	16	16	20	20	20	24	24	28	28	28	32	32	36	36	36	42	-42	42
Performance	data																				
		KW	25.2	28	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.0	78.0	84.0	89.5	95.0	101.0	106.0	112:0	117.5	123.0
	Capacity	Btu/h	85000	95000	114000	136000	153000	170500	191000	209000	228000	249000	266000	286000	305000	324000	344000	361000	382000	400000	419000
Cooling		RT	7.1	7.9	9.5	11.3	12.7	14.3	15.9	17.4	19.0	20.7	22.1	23.8	25.4	27.0	28.7	30.1	31.8	33.4	34.9
3337778	Power inpu	it KW	5.79	6.94	8.49	10.59	12.72	14.48	16.68	15.43	16.98	19.66	21.40	23.62	25 17	27.18	29.40	31.14	33.36	32.11	33.66
	EER	W/W	4.34	4.03	3.94	3.77	3.54	3.45	3.35	3.99	3.98	3.71	3.64	3.58	3.56	3.50	3.44	3.40	3.36	3.66	3.65
		KW	27.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	81.5	87.5	94.5	100.5	106.0	113.0	119.0	126.0	132.0	138.0
	Capacity	Btu/h	93000	107000	127000	153000	170000	190980	214000	235000	255000	278000	298000	322000	342000	361000	385000	406000	429000	450000	470000
Heating	Power inpu	it kw	5.89	7.2	8.82	10.99	12 45	14:14	16.02	16.02	17.64	19.85	21.34	23.22	25.17	26.59	28.47	30.16	32.04	33.04	33.66
	COP	W/W	4.85	4.39	4.25	4.00	4.02	3.96	3.93	4.31	4.30	4.15	4:10	4.07	3.99	3.99	3.97	3.95	3.93	4.00	4.10
Physical data		11000																			
	Quantity			1				2		1+1	1+1		-1	+2				2+2		1	(+1+2
Compressor	Туре				Hermet	ic scrall				-				-		Herms	atic scrolt				
	Type				R4	10A										R	110A				
Refrigerant	Throttle type	е			E	KV.											XV				
	Volume	Kg		10	12	16	16	15	16.5	10+12	12+12	10+16	10+15	10+16.5	12+16.5	16+15	16+16.5	15+16.5	16.5 +16.5	10+12+16.5	12+12+18.5
	Туре				DCr	notor							-		DC motor						
Motor	Quantity			1			2			1+2	2+2		1+2		2	+2		2+2		1+2+2	2+2+2
	ESP	Pa				85							85						85		
Dimension	Net	mm	970×7	65×1620		1260×765×162	0	1349 #76	55×1620				1						1		
(W×D×H)	Packing	mm	1030 ×8	825×1750		1315×825×17	50	1405 ×82	25×1780				1						1		
Net we	ight	Kg	2	08	242	2	86	305	320				1						1		
Sound press		dB(A)		58			60		63				1						1		
Piping data																					
Total equivalent	Liquid	mm	Ø 9.52	Ø12	2.7			Q ¹	15.88		Ø15.88			019.05					Ø19.05		
pipeline length < 9	Om Gas	mm	Ø 22.2	Ф25	5.4	Ø	28.6		Ø3	1.8				Ø34.9					Ø 38.1		
Total equivalent		mm		2.7		Ø15.88			Ø19.05		Ø19.05					Q	22.2				
pipeline length ≥ 9		mm	Φ2	5.4	Φ28.6		Φ31.8		0	31.8	Ø 34.9			Ø.38.1					041.3		
Oil balanc	e pipe	mm				-1-									Ф6.35						

- 1. Cooling operating temperature range is from -5°C to 50°C. Heating operating temperature range is from -20°C to 30°C.

 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(80°F)WB outdoor side 35°C(95°F) DB.

 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB.

- 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

 5. The above data may be changed without notice for future improvement on quality and performance.

					3 modules c	ombination									4 modules comb	ination				
	HP		46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
Model Name	208~230V/3PH	1/60Hz (CMV-D1290W/XR1	CMV-D1340W/XR1	CMV-D1400W/XR1	CMV-D1455W/XR1	CMV-D1520W/XR1	CMV-D1570W/XR1	CMV-D1620W/XR1	CMV-D1680W/XR1	CMV-D1752W/XR1	CMV-D1790W/XR1	CMV-D1850W/XR1	CMV-D1900W/XR1	CMV-D1960W/XR1	CMV-D2015W/XR1	CMV-D2070W/XR1	CMV-D2130W/XR1	1 CMV-D2180W/XR	1 CMV-D2240W/XR
Max. Connected	indoor units quant	tity	48	48	54	54	54	58	58	58	64	64	64	64	64	64	64	64	64	64
Perform	nance data																			
		KW	129.0	134.0	140.0	145.5	152.0	157.0	162.0	168.0	175.2	179.0	185.0	190.0	196.0	201.5	207.0	213.0	218.0	224.0
	Capacity	Btu/h	440000	457000	477000	496000	518000	535000	552000	573000	597000	810000	631000	648000	668000	687000	706000	726000	743000	764000
Cooling		RT	36.6	38.1	39.8	41.3	43.2	44.6	46.0	47.7	49.8	50.8	52.6	54.0	55.7	57.2	58.8	60.5	819	63.6
	Power input	KW	36.34	38.08	40.30	41.85	43.95	46.08	47.82	50.04	49.17	50.34	53.02	54.76	56.98	58.53	60.54	62.76	64.50	66.72
	EER	W/W	3.55	3.52	3.47	3.48	3.46	3.41	3.39	3.36	3.58	3.56	3.49	3.47	3.44	3.44	3.42	3.39	3.38	3.36
		KW	144.5	150.5	157.5	163.5	169.0	176.0	182.0	169.0	195.4	201.8	207.5	213.5	220.5	224.0	232.0	239.0	245.0	252.0
Heating	Capacity	Btu/h	493000	513000	537000	557000	576000	600000	620000	644000	666000	685000	707000	728000	752000	764000	791000	815000	835000	859000
	Power input	KW	35.67	37.36	39.24	40.86	43.03	44.49	46.18	48.06	48.31	49.68	51.69	53.38	55.26	56.88	58.63	60,51	62.20	64.08
	Section Control Section Control	W/W	4.05	4.03	4.01	4.00	3.93	3.96	3.94	3.93	4.04	4.05	4.01	4.00	3.99	3.94	3.96	3.95	3.94	3.93
Physi	ical data																			
	Quantity			1+2+2				2+2+2			1+2+2+2	2+2+2+2		1+2	2+2+2			2+2	2+2+2	
Compressor	Туре				Hermatic scroll								Herme	tic scroll						
	Type				R410A								R4	110A						
Refrigerant	Throttle type				EXV								E	XV						
	Volume	Kg	10+16+16.5	10+15+16.5	10+16.5+16.5	12+16.5+16.5	16+16	5+16.5	15+16,5+16,5	16.5+16.5+16.5	10+15+15+15	12+12+16.5+16.5	10+16+16.5+16.5	10+15+16.5+16.5	10+16.5+16.5+16.5	12+16.5+16.5+16.5	16+15+16.5+16.5	16+16.5+16.5+16.5	5 15+16.5+16.5+16.5	5 16,5+16,5+16,5+1
	Type				DC malor								DC	motor						
Motor	Quantity		-1+2	2+2	1+2+2			2+2+2			1+2+2+2	2+2+2+2		1+2+2+2		1		2+2+2+2		
	ESP	Pa			85								. 8	35						
Dimension	Net	mm					1									1				
(W×D×H)	Packing	mm					1									1				
Netv	veight	Kg					f .									1				
	essure level	dB(A)					1									1				
Pipir	ng data																			
Total equivalent	Control of the contro	mm	Ø1	9.05				Ø2	2.2								Ø25.4			
pipeline length < 90	m Gas	mm		Ø38.1				Ø44.5			Ø	44.5		0	144.5			Ø	54.0	
Total equivalent	Liquid	mm	0/22.2		Ø25.4			00	25.4		Ø	25.4		6	025.4			0	25.4	
pipeline length ≥ 9	0m Gas	mm	Ø41.3		Ø44.5			Ø4	14.5		Ø	44.5		E	54.0			Ø	54.0	
Oil bala	nce pipe	mm			Φ6.35			ФВ	.35		Ф	6.35				0	6.35			

- Notes:

 1. Cooling operating temperature range is from -5°C to 50°C. Heating operating temperature range is from -20°C to 30°C.

 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB.

 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB.

 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhal higher as a result of ambient conditions.

 5. The above data may be changed without notice for future improvement on quality and performance.



						Basic r	nodules									modules combin	ation				
	HP		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
Model Name	380~415V/3PH	1/50Hz C	CMV-V252W/ZR1-C	CMV-V280W/ZR1-C	CMV-V335W/ZR1	-C CMV-V400W/ZR1-	CMV-V450W/ZR1-C	CMV-V500W/ZR1-C	CMV-V560W/ZR1-0	CMV-V615W/ZR1-C	CMV-V670W/ZR1-C	CMV-V730W/ZR1-0	C CMV-V785W/ZR1-	C CMV-V835W/ZR1-C	CMV-V900W/ZR1	C CMV-V950W/ZR1-0	CMV-V1000W/ZR1-	C CMV-V1065W/ZR1-0	CMV-V1115W/ZR1-	CMV-V1175W/ZR1	1-C CMV-V1230W/ZR1-
Max. Connected	indoor units qua	intity	13	16	16	20	20	20	24	24	28	28	28	32	32	36	36	36	42	42	42
Performance	data																				
		KW	25.2	28.0	33.5	40.0	45.0	50.0	56.0	81.5	67.0	73.0	78.5	83.5	90.0	95.0	100.0	106,5	111.5	117.5	123.0
	Capacity	Btu/h	85000	95000	114000	136000	153000	170000	191000	209000	228000	249000	267000	284000	307000	324000	341000	363000	380000	400000	419000
Cooling		RT	7.1	7.9	9.5	11.3	12.7	14.2	15.9	17.4	19.0	20.7	22.3	23.7	25.5	27.0	28.4	30.2	31.7	33.4	34.9
	Power input	KW	5.79	6.95	8.48	11.05	13.16	14.53	17.34	19.10	16.96	20.11	21.64	23.02	26.32	27.69	29.07	32.26	33.63	36.44	38,20
	EER	W/W	4.35	4.03	3.95	3.62	3.42	3.44	3.23	3.22	3.95	3.63	3.63	3.63	3.42	3.43	3.44	3.30	3.32	3.22	3.22
	4.	KW	27.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	81.5	87.5	93.5	100.0	106.0	112.0	119.0	125.0	132.0	138.0
District	Capacity	Btu/h	93000	107000	127000	153000	170000	191000	214000	235000	255000	278000	298000	319000	341000	361000	382000	406000	426000	450000	470000
Heating	Power input	KW	5.88	7.21	8.80	11.03	12.56	14.14	16,15	18.02	17.61	19.77	21.37	22.94	25.13	26.70	28.28	30.58	32,16	34.17	36.03
		WW	4.66	4.37	4.26	4.08	3.98	3.96	3.90	3.83	4.26	4.12	4.10	4.08	3.98	3.97	3.96	3.89	3.89	3.86	3.83
Physical data																				-	
	Quantity	1 7		1DC			1DC+1Fix		1D0	C+2Fix	1DC+1DC		2DC+1Fix			2DC+2Fix		2DC	+3F(x	200	C+4Fix
Compressor	Type			10.2		Hei	matic scroll		120							Hermatic scrol		1753		1703	2.381101
	Type						R410A									R410A					
Refrigerant	Throttle type						EXV									EXV					
	Volume	Ka		10	12		14	15	16.5	17.						7					
	Type					1	C motor									DC motor					
Motor	Quantity		1	DC					2DC		2DC+2DC	1DC+2DC				2DC+2DC					
	ESP	Pa					85									85					
Dimension	Net	mm	970×	765×1620		1260×765×162)		1349×765×1620							1					
Dimension (W×D×H)	Packing	mm	1030×	825×1750		1315×825×175)		1405×825×1780							1					
Net wei	ght	Kg		206	242	1	298	295		345						1					
Sound pressi Piping data	A	dB(A)		58			60	60		63						1					
	Liquid	mm	Ø9.52	Ot a	12.7			Ø15.88			Ø15.88		O.	19.05				rx ·	9.05		
Total equivalent sipeline length < 90	m Gas	mm	022.2		25.4		128.6	Ø13.00	Ø31.8		Ø31.8			134.9					38.1		
	Odo	mm	Ø1		20.4	Ø15.88	720.0		Ø19.05		Ø19.05			122.2					22.2		
Total equivalent pipeline length ≥ 90		mm	02		Ø28.6	270.00	Ø31	9	213.03		Ø34.9			138.1					41.3		
Oil balance	909	mm	102	37.4	220.0		6.35	.0			604.9		V.	30.1		(24	5.35		41,0		

- Notes:

 1. Cooling operating temperature range is from -5°C to 50°C. Heating operating temperature range is from -20°C to 30°C.

 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB.

 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB.

 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

 5. The above data may be changed without notice for future improvement on quality and performance.

		-			3 modules combination					3 modules o	combination		
	HP		46	48	50	52	54	56	58	60	62	64	66
Model Name	380~415V/3P	H/50Hz	CMV-V1285W/ZR1-C	CMV-V1350W/ZR1-C	CMV-V1400W/ZR1-C	CMV-V1450W/ZR1-C	CMV-V1515W/ZR1-C	CMV-V1565W/ZR1-C	CMV-V1615W/ZR1-C	CMV-V1680W/ZR1-C	CMV-V1730W/ZR1-C	CMV-V1790W/ZR1-C	CMV-V1845W/ZR1-C
Max. Connected i	ndoor units quan	ntity	48	48	54	54	54	58	58	58	64	64	64
Performance	data												
		KW	128.5	135.0	140.0	145.0	151.5	156.5	161.5	168.0	173.0	179.0	184.5
	Capacity		438000	460000	477000	494000	516000	533000	551000	573000	590000	610000	629000
Cooling		RT	36,5	38.3	39.8	41.2	43.0	44.4	45.9	47.7	49.1	50.8	52.4
	Power inpu	t KW	36.17	39.47	40.74	42.23	45.42	46.79	48.17	51.36	52.7	55.54	57.30
	EER	W/W	3.55	3.42	3.44	3.43	3.34	3.34	3:35	3.27	3.28	3.22	3.22
			143.5	150.0	156.5	162.0	169.0	175.0	181.0	188.0	194.0	201.0	207.0
100000	Capacity	KW Btu/h	489000	511000	533000	552000	576000	597000	617000	641000	661000	685000	706000
Heating	Power inpu	t KW	35.51	37.69	39.38	40.85	43.14	44.72	46.30	48.59	50.17	52.19	54.05
	COP	w/w	4.04	3.98	3.97	3,97	3.92	3.91	3,91	3.87	3.87	3.85	3.83
hysical data													
2.00000000	Quantity		2DC+4Fix		3DC+3Fix		3DC+4Fix	3DC-	+4Fix	3DC	+5Fix	3DC+6Fix	3DC+6Fix
Compressor	Type				Hermatic scroll					Herma	tic scroll.		
	Type				R410A					R4	10A.		
Refrigerant	Throttle type	3			EXV					E	XV		
	Volume	Kg			7						I		
	Туре				DC motor					DC	motor		
Motor	Quantity				2DC+2DC+2DC+2DC					2DC+2DC	+2DC+2DC		
	ESP	Pa			85						35		
Dimension	Net	mm			7						7		
Dimension (W×D×H)	Packing	mm			1						1		
Netw	eight	Kg			/						1		
Sound pre	essure level	dB(A)			1						1		
Piping data													
Total equivalent	Liquid	mm	Ø19	9.05		Ø22.2				02	2.2		Ø25.4
Total equivalent ipeline length < 90	m Gas	mm	Ø3	8.1		044.5				Ø4	4.5		Ø44.5
Total equivalent	Liquid	mm	02	2,2		Ø25.4				02	5.4		Ø25.4
ipeline length ≥ 90	m Gas	mm	Ø4	1.3		Ø44.5				Ø4	4.5		Ø54.0
Oil balar	ice pipe	mm	06	35		Ø6.35				Ø6	35		

- Notes:

 1. Cooling operating temperature range is from -5°C to 50°C. Heating operating temperature range is from -20°C to 30°C.

 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB.

 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB.

 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

 5. The above data may be changed without notice for future improvement on quality and performance.



					4 modules combination			
	IP		68	70	72	74	76	78
Model Name	380~415V/3PH	1/50Hz	CMV-V1900W/ZR1-C	CMV-V1950W/ZR1-C	CMV-V2000W/ZR1-C	CMV-V2065W/ZR1-C	CMV-V2130W/ZR1-C	CMV-V2180W/ZR1-C
Max. Connected in	door units quant	ity	64	64	64	64	64	64
Performance da	ata							
		KW.	190.0	195.0	200.0	206.5	213.0	218.0
	Capacity	Btu/h	548000	865000	682000	704000	726000	743000
Cooling		RT	54.0	55.4	56.8	58.7	60.5	61.9
	Power input	KW	55.39	56.76	58.14	61,21	64.51	65,89
	EER	W/W	3.43	3.44	3,44	3.37	3.30	3.31
	0.000	KW	212.0	218.0	224.0	231.5	238.0	244.0
Heating	Capacity	Btu/h	723000	743000	764000	788000	812000	832000
neaung	Power input	KW.	53.41	54.99	56.57	58.88	61.16	62.74
	COP	W/W	3.97	3.98	3.96	3.93	3.89	3.89
Physical data								
Almontonia.	Quantity.			4DC+4Fix		4DC+5Fix	4D0	C+6Fix
Compressor	Type				Hermati	ic scroll		
	Туре				R41	10A		
Refrigerant	Throttle type				E)	(V		
	Volume	Kg			1			
	Type				DC n	notor		
Motor	Quantity				2DC+2DC+	2DC+2DC		
	ESP	Pa			8	5		
Dimension	Net	mm			1			
(W×D×H)	Packing	mm			7			
Net we	eight	Kg			1			
Sound pres	ssure level	dB(A)			Y			
Piping data								
Total equivalent	Liquid	mm.	025	5.4		Ø	25.4	
pipeline length < 90n	Gas	mm	Ø44	4.5		Ø	54.0	
Total equivalent	Liquid	mm			Ø25.4			
pipeline length ≥ 90r	m Gas	mm			Ø54.0			
Oil balance	ce pipe	mm			Ø6.35			

- 1, Cooling operating temperature range is from -5°C to 50°C. Heating operating temperature range is from -20°C to 30°C 2. The cooling conditions: indoor side 27°C(80.8°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB
- 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB
- 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions
- 5. The above data may be changed without notice for future improvement on quality and performance.

				4 module	es combination		
	HP		80	82	84	86	88
Model Name	380~415V/3PH	/50Hz	CMV-V2230W/ZR1-C	CMV-V2295W/ZR1-C	CMV-V2345W/ZR1-C	CMV-V2405W/ZR1-C	CMV-V2460W/ZR1-C
Max. Connected in	ndoor units quanti	ty	64	64	64	64	64
Performance of	fata						
		KW	223.0	229.5	234.5	240.5	246.0
	Capacity	Btu/h	760000	783000	800000	820000	839000
Cooling		RT	63,4	65.2	65.6	68,3	69,9
	Power input	KW	67.27	70.46	71.83	74.64	76.40
	EER	W/W	3.32	3.26	3.26	3.22	3.22
	Capacity	KW	250 0	257.0	263.0	270.0	276.0
Heating	Gapacity	Btu/h	852000	876000	897000	921000	941000
rieduity	Power input	KW	64.32	66.61	68.19	70.20	72,06
	COP	W/W	3.89	3.86	3.86	3.85	3.83
Physical data							
Compressor	Quantity		4DC+6Fix		4DC+7Fix	4DC	+8Fix
Compressor	Туре				Hermatic scroll		
	Type				R410A		
Refrigerant	Throttle type				EXV		
	Volume	Kg			1		
	Type				DC motor		
Motor	Quantity				2DC+2DC+2DC+2DC		
	ESP	Pa			85		
Dimension	Net	mm			1		
(W×D×H)	Packing	mm			1.		
Net w	reight	Kg			1		
Sound pre	essure level	dB(A)			/		
Piping data							
Total equivalent	Liquid	:mm		Ø2	5.4		
pipeline length < 90	m Gas	mm		Ø5	4.0		
Total equivalent	Liquid	mm		02	5.4		
ipeline length ≥ 90		mm		05			
Oil balar	nce pipe	mm		Ø6	.35		

- 1. Cooling operating temperature range is from -5°C to 50°C. Heating operating temperature range is from -20°C to 30°C
- 2. The cooling conditions: Indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB
- 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB
- 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
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HP			18	20	22	24
Model Name	380~415V/3P	H/50Hz	CMV-V530W/ZR1-Bi	CMV-V560W/ZR1-Bi	CMV-V600W/ZR1-Bi	CMV-V670W/ZR1-
Max.Connected indoor u	inits quality		20	20	24	28
Performance data						
		KW	53	56	60	67
	Capacity	Btu/h	180000	190000	204000	228000
Cooling		RT	15.1	16.0	17.1	19.1
	Power input	KW	18.6	17.6	18.3	20.8
	EER	W/W	2.85	3.18	3.28	3.22
	Canacity	KW	60	63	67	75
Heating	Capacity	Btu/h	204000	215000	228000	255000
neaung	Power input	KW	17	17	17.8	19.8
	COP	W/W	3.53	3.71	3.76	3.79
Physical data						
Compressor	Quantity		3	3	3	3
Compressor	Type			Hermeti	c scroll	
	Type			R41	10A	
Refrigerant	Throttle type			E)	(V	
	Volume	Kg	17	17	17	17
	Type	127	DC+AC	DC+AC	DC+AC	DC+AC
Motor	Quantity		2	2	2	2
	ESP	Pa		8	5	
Dimension (WxHxD)	Net	mm	1970×1620×765	1970×1620×765	1970×1620×765	1970×1620×765
Difficusion (VVXIIXD)	Packing	mm	2030×1750×825	2030×1750×825	2030×1750×825	2030×1750×825
Net weight		Kg	390	390	390	390
Sound pressure	level	dB(A)	≤63	≤63	≤63	≤63
Piping data						
Total equivalent pipeline	Liquid	mm	Ф15.88	Ф15.88	Ф15,88	Ф15.88
length<90m	Gas	mm	Ф31.8	Ф31.8	Ф31.8	Ф34.9
Total equivalent pipeline	Liquid	mm	Ф19.05	Ф19.05	Ф19.05	Ф22.2
lenath>=90m	Gas	mm	Ф31.8	Ф31.8	Ф31.8	Ф34.9

- Notes:1. Cooling operating temperature range is from -5°C to 50°C. Heating operating temperature range is from -20°C to 30°C

 2. The cooling conditions: indoor side 27°C(80,6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB

 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB

 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

The above data may	be changed	without	notice fo	future	improvement	on quality	and	performan	CE
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HP	•		26	28	30	32
Model Name	380~415V/3P	H/50Hz	CMV-V730W/ZR1-Bi	CMV-V800W/ZR1-Bi	CMV-V850W/ZR1-Bi	CMV-V900W/ZR1-E
Max.Connected inc	door units quality		28	28	32	32
Perform	mance data					
		KW	73	80	85	90
	Capacity	Btu/h	249000	272000	290000	307000
Cooling		RT	20.9	22.9	24.3	25.7
	Power input	KW	22.3	26.6	27.3	28.2
	EER	W/W	3.27	3.01	3.11	3.19
	Capacity	KW	81.5	88	95	100
Heating	Gapacity	Btu/h	278000	300000	324000	341000
nealing	Power input	KW	20.6	25.4	26	26.8
	COP	W/W	3,96	3.46	3.65	3.73
Phys	ical data					
Comproses	Quantity		4	4	4	4
Compressor	Type			Hermet	ic scroll	
	Type			R4	10A	
Refrigerant	Throttle type			E	XV	
	Volume	Kg	23	23	23	23
	Туре		DC+AC+AC+AC	DC+AC+AC+AC	DC+AC+AC+AC	DC+AC+AC+AC
Motor	Quantity		4	4	4	4
	ESP	Pa		8	55	
Dimension (WxHxD)	Net	mm	2541×1620×765	2541×1620×765	2541×1620×765	2541×1620×765
Differsion (VVXIIXD)	Packing	mm	2601×1750×825	2601×1750×825	2601×1750×825	2601×1750×825
Net weight		Kg	530	530	530	530
Sound pressure	elevel	dB(A)	≤65	≤65	≤65	≤65
Pipi	ng data					
Total equivalent pipeline	Liquid	mm	Ф19.05	Ф19.05	Ф19.05	Ф19.05
length<90m	Gas	mm	Ф34.9	Ф34.9	Ф34.9	Ф34.9
Total equivalent pipeline	Liquid	mm	Ф22.2	Ф22.2	Ф22.2	Ф22.2
length>=90m	Gas	mm	Ф34.9	Ф34.9	Ф34.9	Ф34.9

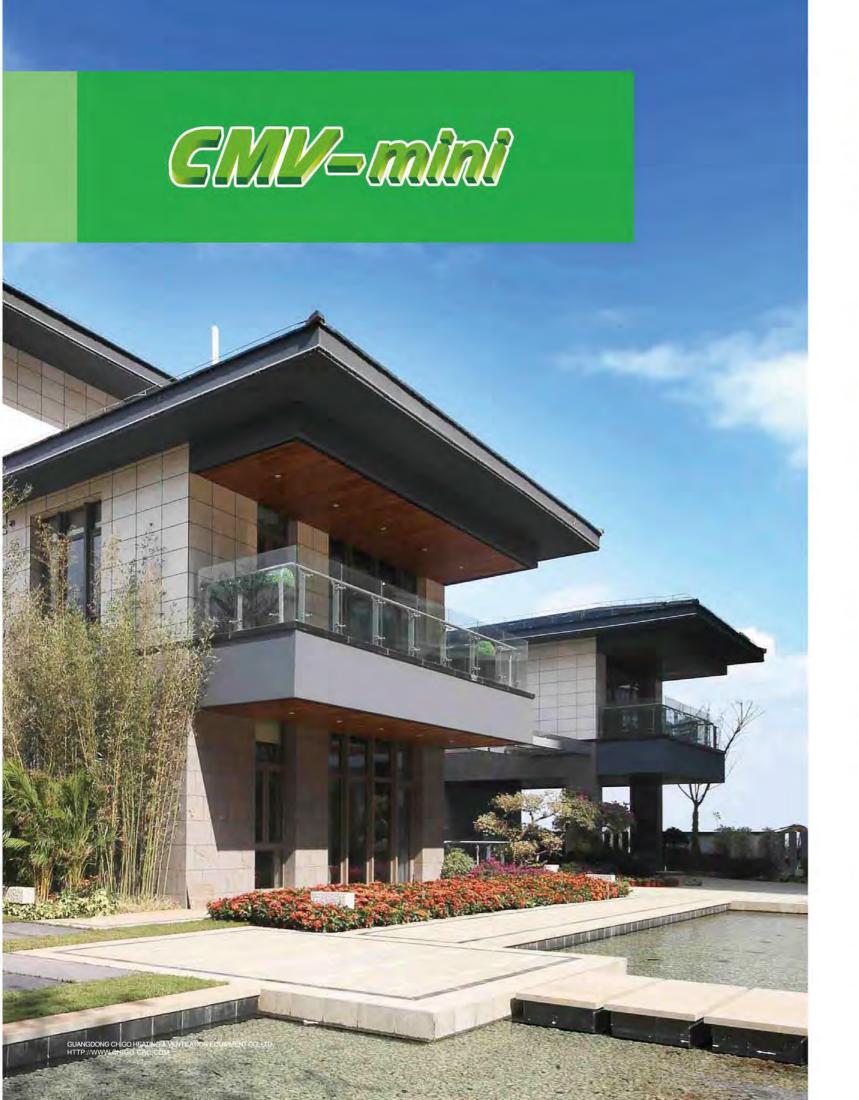
- Notes: 1. Cooling operating temperature range is from -5°C to 50°C, Heating operating temperature range is from -20°C to 30°C

 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB

 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB

 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.3 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions

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High Efficiency DC Inverter Compressor

- Twin-rotary DC inverter compressor / Hermetic scroll inverter compressor
 - Use high efficency and reliability compressor
 - · Has very good efficiency in part load condition
- · High Efficiency, Low Noise:

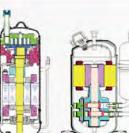
Optimized the efficiency and noise during operation with the latest technology.

Environmental Protection:

Developed the compressor with alternative refrigerant which can protect environment.

Low Vibration:

Reduced the vibration during compressor start and operation by using 2CYL Structure, simplified the match of air-conditioning.













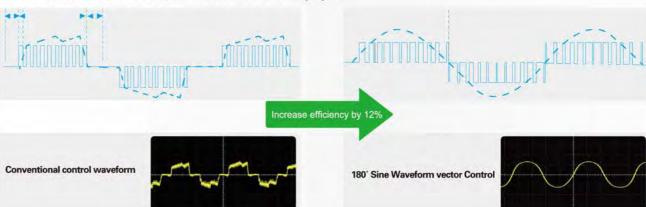
High Efficiency DC Motor

- High efficiency DC fan motor
- Low noise and high efficiency because of high-density wire winding engineering
- Brushless with built-in sensor



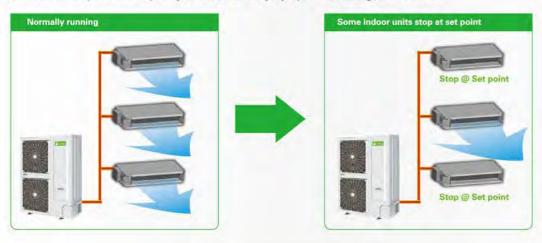
180° Sine Wave Control

The perfect combination of 180° Sine wave rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.

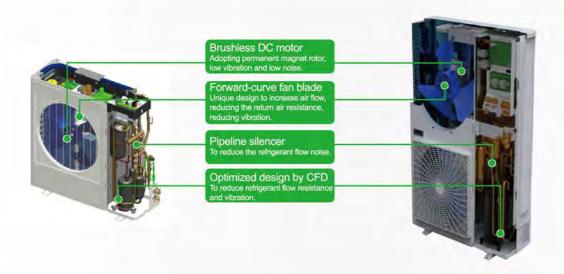


Fast Cooling And Heating

Every rooms meet set point most quickly and comfortably by optimized refrigerant control.



Silent Technology



Wide Outdoor Operation Range

- Because global warming is getting worse, Max. cooling operating temperature is increased to 50°C.
- Heating operating temperature is down to -20°C. In the cold winter, system can heat the room continuously.



Outdoor unit running at temperature above 50°C need customized in factory, please consult to sales engineer.

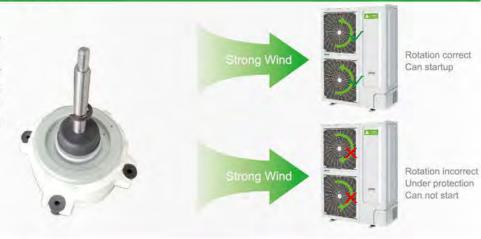
Intelligent Defrosting Program

Program starts only when unit needs to. Whereas conventional unit's defrosting timing & duration is fixed, causing fluctuations in temperature and personal comfort.



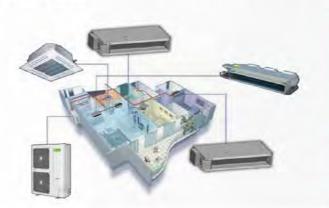
Fan Reversal Protection

In standby, if the outdoor fan motor is rotating in opposite direction at a high speed by the wind or other natural factors, the unit can't start so as to keep the fan motor from broken down. It will start when the fan motor speed slow down.



Space Saving Installation

- Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible.
 Compare to one-drive-one type, the outdoor unit can be installed in various places to realize the
- space-saving installation.





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Active PFC Module

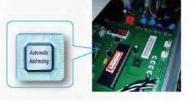
- PFC: Power Factor Corrector
- There will be a power loss because of the different phases between the voltage and current.
- With the PFC module, the power utilization rate is higher, power factor can be up to 98%. System will be more efficiency.



- Power factor refers to the relationship between effective power and total power consumption, power factor is effective power divided by total power consumption.
- Power factor can measure power utilization rate, the power factor bigger, the higher power utilization rate.

Automatically Addressing

- Automatically addressing: system will distribute address to indoor unit automatically
- Automatic addressing will reduce artificial faults and manual works.



LED Display On PCB

 LED display on the PCB, it can show system's operation status and error codes.



CMV mini Specification

	and the second			Cooling					Heatin	g		Compr	essor	Mi	otor	Refriç	gerant	Sound	Sound	Dimension(\	N×H×D)	We	eight	Con	necting	Max. Connecte
Model name	Power type			Power inpu	Current	EER			Power input	Current	COP	Type	Quantity	Type	Quantit	Type	Volume	Level	Level	Packing	Body		Gross			indoor un
MV-V080W/R1	220-240V-1ph-50Hz	-	Blu/h	2.15	5.70	3.72	NAME OF TAXABLE	30700	2.28	6.04	3.95	The state of	be sales.	- Dillow	and the	No.	kg 3	dB(A)	dB(A)	mm	mm	kg 80	92	mm	mm	quantity 4
				10000	1	-	1	-		100	-						-	45~56	52-63	1145×1120×475	1054×994×399	-				-
CMV-V100W/R1	220-240V-1ph-50Hz			2.68	7.10			39000	2.90	7.69	3.93						3					80	92			5
CMV-V125W/R1	220-240V-1ph-50Hz	1		3.38	8.96	1		47000	3.65	9.68	3.83						3.1					89	100			6
CMV-V125W/ZR1	380-415V-3ph-50Hz	-		3.38	5.24	200	2.0	47000	3.66	5.67	3.83						3.1					93	104		10000	6
DMV-V140W/R1	220-240V-1ph-50Hz	-		3.96	10.50	1000	1150	54000	4.3	11.40		DC/Twin-		DC/fan			3.45	12000				89	1111	Ф15.9	Ф9.53	7
DMV-V140W/ZR1	380-415V-3ph-50Hz		Towns of the	3.98	6.17	3.52	1	54000	4.3	6.67	3.72	rotary	1	motor	2	R410a	1000	45~58	52~65	964×1445×402	900×1328×400	93	104			7
CMV-V160W/R1	220-240V-1ph-50Hz			4.57	12.11	3000	1	61000	5.13	13.60	3.61						4.2					96	107			8
CMV-V160W/ZR1	380-415V-3ph-50Hz	16	54000	4.58	7.10	3.50	18	61000	5.13	7.95	3.61						4.2					100	111			8
CMV-V180W/ZR1	380-415V-3ph-50Hz	18	61000	5.19	8.05	1000	-	63000	5.62	8.71	3.56						4.2					100		Ф19.1	Ф9.53	
CMV-VH224W/ZR1	380-415V-3ph-50Hz	22.4	76500	6.74	10.5	3.32	25	85300	5.85	9.9	4.27						6.1	45~58	52~65			145	165	Φ22.2	Ф9.53	10
CMV-VH260W/ZR1	380-415V-3ph-50Hz	26	88700	7.54	12.1	3.45	28.5	97300	6.77	11.1	4.21						6.1	46~60	55~66	1278×1703×560	1120×1549×528	145	165	3.000.0	2000	12
CMV-VH280W/ZR1	380-415V-3ph-50Hz	28	95500	8.32	13.6	3.37	30.5	104000	7.93	12.9	3.85	DC/Scroll					8	47~60	56~66	100 000	1010 100	176	196	Ф25.4	Ф12.7	15
CMV-VH335W/ZR1	380-415V-3ph-50Hz	33.5	114200	9.45	14.9	3.54	37.5	127900	9	14.2	4.17	20000					8	48~62	57~68			176		720	100	18
CMV-V080W/XR1	220-240V-1ph-60Hz	8	27300	2.15	5.70	3.72	9	30700	2.28	6.04	3.95						3	45-56	52-63	1145×1120×475	1054v004v300	80	92			4
CMV-V100W/XR1	220-240V-1ph-60Hz	10	34000	2.68	7.10	3.70	11.5	39000	2.90	7.69	3.93						3	40.00	52.00	1110-1120-110	1004-004-000	80	92			5
DMV-V125W/XR1	220-240V-1ph-60Hz	12.5	42000	3.38	8.96	3.69	14	47000	3.65	9.68	3.83						3.1					89	100			6
DMV-V125W/YR1	380-415V-3ph-60Hz	12.5	42000	3.38	5.24	3.69	14	47000	3.66	5.67	3.83						3.1					93	104			6
CMV-V140W/XR1	220-240V-1ph-60Hz	14	47000	3.96	10.50	3.52	16	54000	4.3	11.40	3.72						3.45					89	100	Ф15.9	Ф9.53	7
DMV-V140W/YR1	380-415V-3ph-60Hz	14	47000	3.98	6.17	3.52	16	54000	4.3	6.67	3.72	DG/Twin-	1	DC/fan	2	R410a	3.45	45~58	52-65	964×1445×402	900×1328×528	93	104			7
CMV-V160W/XR1	220-240V-1ph-60Hz	16	54000	4.57	12.11	3.50	18	61000	5.13	13.60	3.61	rotary		motor	-	157190	42					96	107			8
DMV-V160W/YR1	380-415V-3ph-60Hz	16	54000	4.58	7.10	3.50	18	61000	5.13	7.95	3.61						4.2					100	111			8
CMV-V180W/YR1	380-415V-3ph-60Hz	18	61000	5.19	8.05	3,47	20	63000	5.62	8.71	3.56						42					100	111	Φ19.1	Ф9,53	9
MV-VH224W/YR1	380-415V-3ph-60Hz	22.4	76500	6.74	10.5	3.32	25	85300	5.85	9.9	4.27						6.1	45~58	52~65			145				10
CMV-VH260W/YR1	380-415V-3ph-60Hz	26	88700	7.54	12.1	3,45	28.5	97300	6.77	11.1	4.21						6.1	46~60	55~66			145	165	Φ22.2	Φ9.53	12
CMV-VH280W/YR1	380-415V-3ph-60Hz	28	95500	8.32	13.6	3.37	30.5	104000	7.93	12.9	3.85						8	47~60	56~66	1278×1703×560	1120×1549×400	176	196			15
CMV-VH335W/YR1	380-415V-3ph-60Hz	33.5	114200	9.45	14.9	3.54	37.5	127900	9	14,2	4.17	DC/Scroll					8	48~62	57-68			176	196	Φ25.4	Ф12.7	18



The cooling conditions: Indoor temp.: 27°C DB (80.6°F), 19°C WB (60°F) outdoor temp.: 35°C DB (95°F) equivalent pipe length: 5m drop length: 0m.

2. The heating conditions: Indoor temp.: 20°C DB (88°F), 15°C WB (44.8°F) outdoor temp.: 7°C DB (42.8°F) equivalent pipe length: 5m drop length: 0m.

3. Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.2 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

4. The above data may be changed without notice for future improvement on quality and performance.

Indoor Units Line Up

	1-way cassette	2-way cassette	4-way cassette	ROUND-FLOW cassette	4-way cassette (compact type)	Floor standing unit	Floor standing type
Capacity (KW)							
2.2							•
2.8					•		•
3.6	•				•		•
4.5	•	•			•	•	•
5.6	•	•		•		•	•
7.1	•	•		•			•
8.0		•	•	•		•	
9.0				•		•	
10.0				•		•	
11.2			•				
12.0						•	
12.5				•		•	
14.0			•	•		•	
15.0						•	
16.0			•	•			

	Concealed type	Wall-mounted	Floor Ceiling	Short ceiling concealed ducted unit	Medium ESP ducted unit	High ESP ducted unit	Fresh air processor
Capacity (KW)						T	
2.2				•			
2.8		•		•			
3.6	•	•		•			
4.5			•	•			
5.6	•	•	•	•			
7.1		•	•		•		
8.0	•		•		0	•	
9.0			•		•		
10.0					•		
11.2							
12.0					•	•	
14.0			•				•
15.0					•		
16.0			•				
20.0						•	
22.4							•
25.0						•	
28.0							
45.0							•
56.0							•

1-way Cassette



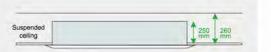
Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
1	Standard	Standard (built-in)	Standard (built-in)	Standard	1

Slim body, easy to install

Has slim body with 250mm height, it is specially suitable for low suspended ceiling rooms.



Built-in with drainage pump

Built-in with low noise long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.



Specification

and the second			Ca	pacity		Motor	Alex	flow	Sound	500		Dimension	(W×H×D)		Body	Weight	Co	nnectin	g pipe	
Model name	Power	Co	oling	He	ating	input	Z-Vir	IICVV	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard
	type	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controller
CMV-V22Q1/HR1-B	50Hz	2.2	7.5	2.5	8.5															
CMV-V28Q1/HR1-B	50Hz	2.8	9.5	3.2	10.9	0.04	520	306	32~36		1160×275×655	994×250×532	1090×65×540	1070x50x520	24/3.6	30/5.0	Φ9.53			
CMV-V36Q1/HR1-B	50Hz	3.6	12.2	4.0	13.6													Ф6.35	OD Φ25	Remote
CMV-V45Q1/HR1-B	50Hz	4.5	15.3	5.0	17.0	0.05	610	360	36~41	1	1160×315×655	994×290×532	1090×65×540	1070x50x520	26/3.6	32/5.0			00 42.	controller
CMV-V56Q1/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	750	440	35~41		4470-005-000	1304×290×572	1000 70 500	4000 50 500	2400	39/5.0	Ф12.7			
CMV-V71Q1/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.09	950	550	38~45		147U*305×690	1304*290*572	1390x70x560	1380x50x520	34/3.0	38/5.U	Ф15.9	Ф9.53		

Notes:

1. Power supply: 220–240V:1PH for 50Hz.

2. Cooling test condition: indoor side 27°C DB, 18°C WB outdoor side 35°C DB, Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.

3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally comewhat higher as a result of ambient conditions.

4. The above data may be changed without notice for future improvement on quality and performance.

2-way Cassette

4-way Cassette / Round-flow Cassette



		Controller	
Standard		Optional	
Wireless	Wireless	Wired	Centralized
		-	
238	S III		
		0.00	



Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
1	Standard	Standard (built-in)	Standard (built-in)	Standard	1

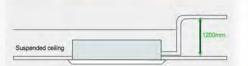
2 way air direction

Two direction air flow, flexibly install in various rooms or hallway



Built-in with drainage pump

Built-in with low noise long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.



Specification

and the second	Lucia		Ca	pacity		Motor	Air	flow	Sound	FOO		Dimen	sion (W×H×D)		Body	Weight	Cor	necting		
Model name	Power type	C	poling	He	ating	input	~	IICAA	Level	ESP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard
	type	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controlle
CMV-V45Q2/HR1-B	50Hz	4.5	15.3	5.0	17											OR HOL				
CMV-V56Q2/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	800	470	36~42		1215×365×630	1068×310×517	1235×70×655	1205×50×630	33/6.5	36/8.5	Ф12.7	Ф6.35	ΟΟ Φ25	Remote
CMV-V71Q2/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.40	4400	050				4000 040 547	****	4445 50 000					ΟυΨω	controlle
CMV-V80Q2/HR1-B	50Hz	8.0	27.2	9.0	30.7	0.10	1120	650	40~46	1	1455×365×630	1308×310×517	1475×70×655	1445×50×630	40/7.5	47/10.0	Φ15.9	Φ9,53		

1. Power supply: 220~240V/1PH for 50Hz;
2. Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB
3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4. The above data may be changed without notice for future improvement on quality and performance.

Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
1	Standard	Standard (built-in)	Standard (built-in)	Standard	Optional

· 4 ways air delivering

Air flow is soft and smooth, air can be delivered to every corner without dead angle, it makes the room temperature distribution more balance.



• 360° round panel is optional.



Built-in with drainage pump

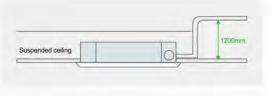
Built-in with low noise long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.

Note: The pumping head of 4-way cassette unit (compact type) is 700mm.

. Slim body, easy to install

Has slim body with 230mm height, it is specially suitable for low suspended ceiling rooms.

DC fan motor is optional



Suspended ceiling	230 mm	260 mm
-------------------	--------	-----------

Specification

4-way Cassette Unit

			Cap	acity		Motor	Ale	flow	Sound			Dimen	sion (W×H×D)		Body	Weight	Co	nnecting	pipe	
Model name	Power	Co	oling	He	ating	input	Asr	IOW	Level	ESP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standar
	type	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controlk
CMV-V56Q/HR1-C	50Hz	5.6	19.1	6.3	21.4	0.054	810	470	35-39						24	30	4407	40.00		
CMV-V56Q/HNR1-C	60Hz	5.0	19.1	0.3	21,4	0.004	010	410	30 30						24	30	Φ12./	Ф6.35		
CMV-V71Q/HR1-C	50Hz	7.1	24.2	8.0	27.2						920×265×985	833×232×900			24	30				
CMV-V71Q/HNR1-C	60Hz	1.4	24.2	0.0	21.2	0.000	1200	700	36~39						24	30				
CMV-V80Q/HR1-C	50Hz	8	27.2	8.8	30	0.093	1200	700	20~28						24	30				
CMV-V80Q/HNR1-C	60Hz	0	21.2	0.0	30					1			1030×105×1030	950×50×950	24	30				
CMV-V90Q/HR1-C	50Hz	9	30.7	10.0	34.1					1			1000-100-1000	350~500~300	28.5	35				
CMV-V90Q/HNR1-C	60Hz	5	30.1	10.0	34.1										20.0	50				Remot
CMV-V100Q/HR1-C	50Hz	10	34.1	11.0	37.5										28.5	35			OD Ф25	controlle
CMV-V100Q/HNR1-C	60Hz	10	34.1	11.0	31.0										20.5	30	Ф15.9	Ф9.53		CONTUCIN
CMV-V112Q/HR1-C	50Hz	11.2	38.2	12.5	42.6										28.5	35	1000			
CMV-V112Q/HNR1-C	60Hz	11.6	30.2	12.0	42.0						-				20.0	30				
CMV-V125Q/HR1-C	50Hz	12.5	42.6	14.0	47.7	0.16	1600	940	37-41		920×310×985	833×286×900			28.5	35				
CMV-V125Q/HNR1-C	60Hz	12.0	42.0	17.0	340.0			1.7	20.00		2000	200.000			20.0	00				
CMV-V140Q/HR1-C	50Hz	14.0	47.7	15.0	51.1										28.5	35				
CMV-V140Q/HNR1-C	60Hz	1-4.0	77.57	13.0	91.1										20.0	00				
CMV-V160Q/HR1-C	50Hz	16.0	54.5	17.0	58										28.5	35				
CMV-V160Q/HNR1-C	60Hz	10.0	54.5	16.0	50										20.0	30				

4-way Cassette Unit (Compact type)

			Cap	acity		Motor			Sound			Dimension	(W×H×D)		Body	Weight	Con	necting	pipe	
Model name	Power	Co	oling	He	ating	input	Air	flow	Level	ESP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standan
	type	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controlle
CMV-V22Q4/HR1-C	50Hz	2.2	7.5	2.5	0.5	0.000	447	263	22-34						17.5	25				
CMV-V22Q4/HNR1-C	60Hz	2.1	7.5	2.5	8.5	0.038	447	203	22-34						17.0	20	40.50			
CMV-V28Q4/HR1-C	50Hz	2.8	9.5	3.2	10.9	0.038	447	263	22~34						17.5	25	Ф9.53			
CMV-V28Q4/HNR1-C	60Hz	2.0	9.5	3.2	10.9	0.030	447	200	22~34		745-075-075	653×267×585	750×95×750	650×30×650	17.5	20		d6 35	OD Ф25	Remote
CMV-V36Q4/HR1-C	50Hz	3.6	12.2	4.0	13.6	0.040	515	303	27-38	1	740×3/0×0/0	003×207×000	1001*65*1001	000×30×000	175	25		40.50	00 420	controlle
CMV-V36Q4/HNR1-C	60Hz	3.0	12.2	4.0	13.0	0.040	212	303	21-30						17.5	25	Ф12.7			
CMV-V45Q4/HR1-C	50Hz	4.5	15.3	5.0	17	0.040	515	303	27-38						17.5	25	Ψ12.7			
CMV-V45Q4/HNR1-C	60Hz	4.0	13.3	3.0	11	0.040	010	303	21-30						17.5	25				

Round-flow Cassette

			Cap	acity		Motor	À.		Sound	man		Dimension	n (W×H×D)		Body	Weight	Con	necting	pipe	
Model name	Power	Co	oling	He	ating	input	Air	flow	Sound Level	ESP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard
	type	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controlle
CMV-V56QR/HR1	50Hz	5.6	19.1	6.3	21.4	0.09	860	500	32-39						24	30	Ø12.7	Ø6.5		
CMV-V71QR/HR1	50Hz	7.1	24.2	8.0	27.2		1200	700	35-39		920×265×985	833×232×900			24	30				
CMV-V80QR/HR1	50Hz	8.0	27.2	8.8	30		1200	700	33-39		7				24	30				
CMV-V90QR/HR1	50Hz	9.0	30.7	10	34.1										28.5	35				Remote
CMV-V100QR/HR1	50Hz	10	34.1	11	37.5	0.18	1 155		07.44	1			1030×105×1030	950×50×950	28.5	35	0159	09.52	Ø25	controller
CMV-V112QR/HR1	50Hz	11.2	38.2	12.5	42.6		1400	820	37-41		500 040 005	000 000 000			28.5	35	210.0	00.02		
CMV-V125QR/HR1	50Hz	12.5	42.6	14	47.7						920×310×985	833×286×900			28.5	35				
CMV-V140QR/HR1	50Hz	14	47.7	15	51.1	0.07	4000	inco	20 42						28.5	35				
CMV-V160QR/HR1	50Hz	16	54.5	17	58	0.27	1800	1050	38~42						28.5	35				

Notes:1. Power supply: 220-240V/1PH/50Hz;
2. Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB;
3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions;
4. The above data may be changed without notice for future improvement on quality and performance.

Floor standing unit



		Controller	
Standard		Optional	
Wireless	Wireless	Wired	Centralized
888	344 335		

Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
1	Standard	Standard (built-in)		Standard	Optional

Anti-dust design

When unit is off, the louvers will close automatically.



• 3 dimensional air supply

Two step motor are built in, the air can be easily delivered to every corner.

Specification

Floor Standing Unit

			Cap	acity		Mator	Air flow	Sound	-	Dimens	ion (W×H×D)	W	eight	Connect	ng pipe	_	
Model name	Power type	Co	oling	He	ating	input	AIFBOW	Sound Level	ESP	Body	packing	Body	packing	Gas	Liquid	Drain	Standard
	type	kW	kBtu/h	kW	kBlu/h	kW	m³/h	dB(A)	Pa	mm	mm	kg	kg	mm -	mm	mm	COLIDORE
CMV-V45F/HR1	50Hz	4.5	15.3	5	17.0		000	48								-9.60	
CMV-V56F/HR1	50Hz	5.6	19	6.3	21.4		920	40				38.5	49.5	Ф12.7	Ф6.35	Ф20	
CMV-V71F/HR1	50Hz	7.1	24	8	27.2	0.1				528×1760×271	645×1940×380						
CMV-V80F/HR1	50Hz	8	27.2	9	30.6	0.1	950	53				39.5	50.5				
CMV-V90F/HR1	50Hz	9	30.7	10	34.0				7								
CMV-V100F/HR1	50Hz	10	34.1	11	37.4				1								Remote
CMV-V112F/HR1	50Hz	11.2	38	12.4	42.2									Ф15.9	Ф9.53	Ф25	controlle
CMV-V125F/HR1	50Hz	12.5	42.5	13.9	47.3	0.2	1620	53		613×1929×379	745×2080×510	56	72.5				
CMV-V140F/HR1	50Hz	14	47.6	15.5	52.7												
CMV-V160F/HR1	50Hz	16	54.4	17.8	60.5												

- Notes: 1. Power supply: 220-240V/1PH/50Hz;
 2. Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB;
 3. Sound level, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions;
 4. The above data may be changed without notice for future improvement on quality and performance.

Floor standing unit



Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
1	Standard	Standard (built-in)	1	Standard	Optional

Tow type for option



Floor standing type (Installed on the floor)



Concealed type (concealed in perimeter wall)

- Excellent solution for installing beneath the window and provide comfortable environment.
- Convenient maintenance and efficiently eliminate noise because of special installation.

Specification

Floor Standing Type

			Cap	acity		Motor	Airflow	Sound		Dimens	sion (W×H×D)	W	eight	C	connecting p	pe:	
Model name	Power type	Co	oling	He	ating	input	(H/M/L)	Level	ESP	Body	packing	Net:	Gross	Liquid	Gas	Drain	Standan controlle
-	type	kW	kBtu/h	kW	kBtu/h	W	m³/h	dB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	CONTROLL
CMV-V22TE/HR1	50Hz	2.2	7.5	2.4	8.2	51	505/465/393	36/34/30		970×491×230	1070×570×300	23	26				
CMV-V28TE/HR1	50Hz	2.8	9.6	3.2	10.9	51	505/465/393	36/34/30		970×491×230	1070×570×300	23	26		Ф9.52		
CMV-V36TE/HR1	50Hz	3.6	12.3	4.0	13.6	62	683/482/314	38/32/27		1170×491×230	1270×570×300	27	30	Ф6.35			
CMV-V45TE/HR1	50Hz	4.5	15.4	5.0	17.1	71	851/640/428	43/36/27	1	1170×491×230	1270×570×300	27	30		20.50	Ф20	Wired
CMV-V56TE/HR1	50Hz	5.6	19.1	6.3	21.5	94	1020/891/795	38/37/31		1720×491×230	1820×570×320	38	42		Ф9.52		
CMV-V71TE/HR1	50Hz	7.1	24.2	8.0	27.3	124	1018/882/793	40/36/33		1720×491×230	1820×570×320	38	42	30.00	1		
CMV-V80TE/HR1	50Hz	8.0	27.2	9.0	30.7	124	1018/882/793	40/36/33	1720×491×230	1820×570×320	38	42	Ф9.53	Ф15.88			

Concealed Type

			Cap	acity		Motor	Airflow	Sound	ESP	Dimens	ion (W×H×D)	W	eight	C	connecting pi	pe.	100
Model name	Power type	Co	oling		ating	input	(H/M/L)	Level	ESP	Body	packing	Net	Gross	Liquid	Gas	Drain	Standard controller
	19 Per	kW	kBtu/h	kW	kBtu/h	W	m³/h	dB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	CONTROL
CMV-V22TC/HR1	50Hz	2.2	7.5	2.4	8.2	35	415/359/259	36/33/30		730×600×230	835×705×325	20	23				
CMV-V28TC/HR1	50Hz	2.8	9.6	3.2	10.9	35	415/359/259	36/33/30		730×600×230	835×705×325	20	23		Φ9.52		
CMV-V36TC/HR1	50Hz	3.6	12.3	4.0	13.6	48	664/580/520	37/34/31		980×600×230	1085×705×325	24	28	Ф6.35			
CMV-V45TC/HR1	50Hz	4.5	15.4	5.0	17.1	48	664/580/520	37/34/31	1	980×600×230	1085×705×325	24	28		Ф9.52	Ф20	Wired
CMV-V56TC/HR1	50Hz	5.6	19.1	6.3	21.5	66	972/850/753	37/34/31		1330×600×230	1435×705×325	31	36		Ψ9.52		
CMV-V71TC/HR1	50Hz	7.1	24.2	8.0	27.3	67	1005/868/769	38/35/33		1330×600×230	1435×705×325	32	37	10.00	215.00		
CMV-V80TC/HR1	50Hz	8.0	27.2	9.0	30.7	67	1005/868/769	3/769 38/35/33 1	1330×600×230	1435×705×325	32	37	Ф9.53	Ф15.88			

Notes.

1. Power supply: 220–240V/IPH for 50Hz,

1. Power supply: 220–240V/IPH for 50Hz,

2. Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Hastling test condition; indoor side 20°C DB, 15°C WB outdoor side 7°C OB.

3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, thesis values are normally somewhat higher as a result of amb.

4. The above distalmay be changed without notice for future improvement on quality and performance.

Short Ceiling Concealed Ducted Unit



Con	troller	
	Optional	
Wired	Wireless	Centralized
1000	100 200 33	

Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
Standard	Optional	Standard (built-in)	Optional	Standard	Optional

. Short body, easy to install.

Has short body, minimum 700mm width, it is specially suitable for installation location in entrance ceiling of hotel room. Low noise and light Weight.

Drain pump is optional

Pumping head is 750mm.

. DC fan motor is optional

· Big air flow low noise centrifugal fan wheel

Big air flow low noise centrifugal fan blade with special air tunnel system, and the unique shock absorption measures, making this series ducted units' running noise is as low as 24 dB(A), let users to enjoy the comfort, sleep without any disturbance.





 Special resin material fan wheel.



 All vanes are dislocation distribution to offset sound wave, so that the noise can be reduced.



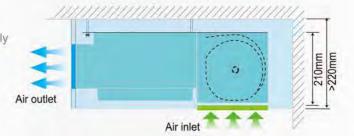
High efficiency low noise motor, motor and support frame with rubber ring isolation, can absorb vibration and reduce noise.



 Air inlet of fan wheel casing is arch curved design; it can reduce air flow's disturbance, make it flow smoother to reduce noise.

Slim body, easy to install

Has slim body with 210mm height, it is specially suitable for low suspended ceiling rooms.



Specification

No. of the last			Cap	acity		Motor	Ale	flow	Sound	ECD	Dim	ension (WxF	lxD)		Body	Weight	Сол	nectin	g pipe	-
Model name	Power	Cc	oling	He	ating	input	Air	now	Level	ESP	Packing	Body	Packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
	.7 P	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
CMV-V22TA/HR1-C	50Hz	22	7.5	2.5	8.5										16	18.5				
CMV-V22TA/HNR1-C	60Hz	2.2	7.5	2.0	0.0	0.05	450	000	24 00						10	10.5	+0.50			
CMV-V28TA/HR1-C	50Hz	2.8	9.5	3.2	10.9	0.05	450	260	24~29						16	40.5	Ф9,53			
CMV-V28TA/HNR1-C	60Hz	2.0	9.5	3.2	10.9			,							10	18.5				
CMV-V36TA/HR1-C	50Hz	3.6	400	,	13.6	0.07	550	204	05 00		910×240×510	814×210×46)			40.5	40		Ф6.35		12.000
CMV-V36TA/HNR1-C	60Hz	3.0	12.2	4	13.0	0.07	550	324	25~32	30			1	1	16.5	19			OD Φ25	Wired controller
CMV-V45TA/HR1-C	50Hz	4.5	450	-	17	0.00	620	200	20. 27						40.5	19	0127			
CMV-V45TA/HNR1-C	60Hz	4.5	15.3	5	1/	0.08	620	360	32~37						16.5	19	Ф12.7			
CMV-V56TA/HR1-C	50Hz	5.6	40.4	00	24.4	0.00	200	500	00.00			barren v			04					
CMV-V56TA/HNR1-C	60Hz	0.0	19.1	6.3	21.4	0.09	800	520	28~38		1110×240×510	1010×210×467			21	24				
CMV-V71TA/HR1-C	50Hz	74	240		27.0	044	4000	040	20.00		1010 010 510	1041.010.10			25.5	28.5	4450	40.50		
CMV-V71TA/HNR1-C	60Hz	7.1	24.2	8	27.2	0.11	1000	640	30~39		1310×240×510	1214×210×467			23.5	20.5	Ψ (5.9	Ф9.53		

Notes:1. Power supply: 220~240V/1PH for 50Hz; 208~230V/1PH for 60Hz.

- 2, Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.
- 3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4. The above data may be changed without notice for future improvement on quality and performance.

Medium Static Pressure Ducted Unit

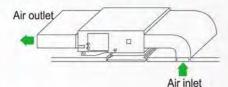


Features

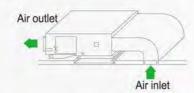
Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
Standard	Standard	Standard (built-in)	Optional	Standard	Optional

Standard ESP is 70Pa, 30Pa can be customized.



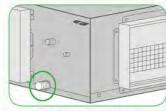
70Pa ESP, suitable for long distance air supply



30Pa (can be set on site), suitable for low noise requirement rooms

Convenient in drainage pipe installation

Reserved drainage pipe outlet holes on left side and right side, installer can choose the outlet holes on site as per actual conditions, flexible for drainage pipe installation.



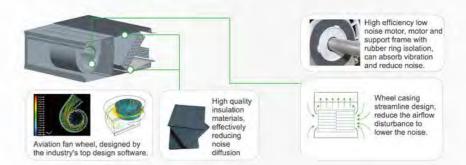
Left drainage hole



Right drainage hole

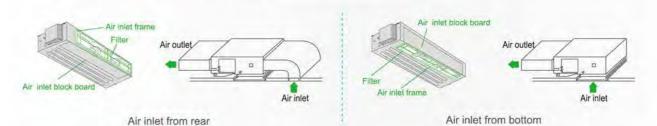
. Whole unit low noise design, silent operation

Using multiple noise reduction technology, including the design of high efficiency low noise motor, aviation fan wheel, low vibration wheel casing, unique design, the inner wall configuration with high quality insulation materials, and so on, to make the units running in a low noise condition.



Two air return installation methods

Air return from rear or bottom is easy to change on site, convenient for installation.



. DC fan motor is optional

Specification

			Сар	acity		Motor	Air	flow	Sound	ESP	0	imension (W×H×D)			Body	Weight	Con	necting p	ipe	
Model name	Power	Co	oling	He	ating	input			Level	201	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard
	4	kW	kBtu/h	kW	k/Btu/h	kW	m3/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controlle
CMV-V71TB/HR1-B	50Hz	7.1	24.2	8.0	27.2										33	37				
CMV-V71TB/HNR1-B	60Hz	7.1	24.2	0.0	21.2	0.00	4000	740	00.44		1055-005-700	4000-000-000			0.0	-01				
CMV-V80TB/HR1-B	50Hz	8.0	27.2	9.0	30.7	0.30	1220	710	36~41		1255x325x720	1209×260×680			33	37				
CMV-V80TB/HNR1-B	60Hz	0.0	212	9.0	30.7										00	OI.				
CMV-V90TB/HR1-B	50Hz	9.0	30.7	10.0	34.1		4050	4000	20 40						46	50				
CMV-V90TB/HNR1-B	60Hz	9.0	30,1	10.0	34.1		1850	1080	38~43	70			.,		10	00	Ф15.9	40.52	OD Φ25	Wired
CMV-V100TB/HR1-B	50Hz	10.0	34.1	11.0	37.5					70				1	46	50	Ψ13.9	Ψ9.33	OD 423	controller
CMV-V100TB/HNR1-B	60Hz	10.0	594.1	11.0	31.0	001					1400-225-720	4445 000 000			40					
CMV-V120TB/HR1-B	50Hz	12.0	40.9	13.0	44.3	0.34					1490x325x720	1445×260×680			46	50				
CMV-V120TB/HNR1-B	60Hz	12.0	40.5	13.0	44.3		2000	4470	NAC OF						.10	30				
CMV-V150TB/HR1-B	50Hz	15.0	51.1	17.0	58		2000	1170	40~44						46	50				
CMV-V150TB/HNR1-B	60Hz	13.0	31.1	17.0	30									40	- 50					

Notes: 1. Power supply: 220-240V/1PH for 50Hz; 208-230V/1PH for 60Hz

- Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB
 Sound level; measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 The above data may be changed without notice for future improvement on quality and performance.

High Static Pressure Ducted Unit



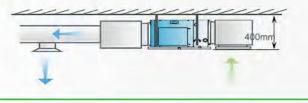
Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
Standard	Standard	Standard (built-in)	Optional	Standard	1

Slim body, saving suspended ceiling spaces

Slim body, saving suspended ceiling spaces.



Can be used with various diffusers

Used with various diffusers, meet for different kinds of decoration.









Linear diffuser



nd diffuser Spiral diffuser S

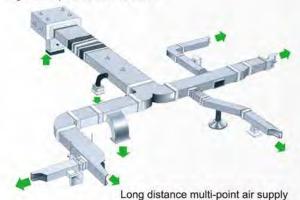
Square diffuser

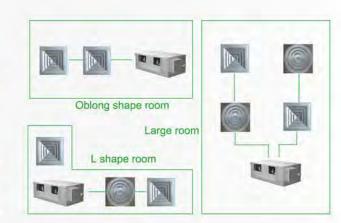
Rectangular diffuser

High static pressure

Big air flow with high static pressure, easy for large rooms duct design. Suitable for different shape of rooms.

High static pressure ducted unit





Specification

			Сар	acity		Motor	Ale	flow	Sound	man		Dimension (W×H×D)			Body	Weight	Cor	necting ;	pipe .	
Model name	Power	Co	oling	He	ating	input	All	IIUW.	Level	ESP	Packing	Body	Packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard
	type	kW	kBtwh	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controller
CMV-V71TH/HR1-B	50Hz	201	200	100											100					
CMV-V71TH/HNR1-B	60Hz	7.1	24.2	7.8	26.6										46	50				
CMV-V80TH/HR1-B	50Hz		47.0		24	0.04	4500	000			1400-005-700	4115 000 000				in				
CMV-V80TH/HNR1-B	60Hz	8.0	27.2	8.8	30	0.34	1500	880	40-42		1490×325×720	1445×260×680			46	50				
CMV-V90TH/HR1-B	50Hz	0.0	20.7	400	044										400					
CMV-V90TH/HNR1-B	60Hz	9.0	30.7	10.0	34.1										46	50	Ф15.9	Ф9.53		
CMV-V100TH/HR1-B	50Hz	40.0	200		07.5												4 10.0	+0.00		
CMV-V100TH/HNR1-B	60Hz	10.0	34.1	11.0	37.5										47	51				
CMV-V120TH/HR1-B	50Hz	12.0	400	40.0	440	0.40	0000	1000	44.50	450	1245×445×655	1190×370×620	.,	9	47				OD 425	Wired
CMV-V120TH/HNR1-B	60Hz	12.0	40.9	13.0	44.3	0.45	2300	1350	44~52	150	1245*445*655	119043704020			47	51			OD 420	controller
CMV-V150TH/HR1-B	50Hz	15.0	51.1	17.0	58.0										47	51				
CMV-V150TH/HNR1-B	60Hz	15.0	31.1	17.0	56.0										41	01				
CMV-V200TH/HR1-B	50Hz	20.0	68.2	22.0	75.0	1.2	4000	2350	45~53						102	113				
CMV-V200TH/HNR1-B	60Hz	20.0	00.2	22.0	75.0	1.4	4000	2550	45-55						102	113				
CMV-V250TH/HR1-B	50Hz	25.0	85.3	27.5	93.8	1.2	4200	2470	45~54		1510×580×870	1465×448×811			102	113	ф22.2	Ф12.7	OD 430	
CMV-V250TH/HNR1-B	60Hz	20.0	00.0	61.0	30.0	1.45	7600	2.70	10 01		101040004070	1100-110-011			102	110		7 14.1	00 400	ì
CMV-V280TH/HR1-B	50Hz	28.0	95.5	30.8	105.0	1.2	4400	2580	45~55						102	113				
CMV-V280TH/HNR1-B	60Hz	20.0	30.0	30.0	100.0	1.2	4400	.2000	40 00						102	113				
CMV-V450TH/HZR1-B	50Hz	45.0	153.5	50.0	170.6	1.6	6000	3520	60	1					222	260				
CMV-V450TH/HXR1-B	60Hz	40.0	100.0	00.0	170.0	1.0	0000	0020	1 41.0	2267×840×1050	2165×676×916			444	2.00	M28 6	Ø15.0	OD Ф32		
CMV-V560TH/HZR1-B	50Hz	56.0	191.0	63.0	214.9	2.5	8000	4700		2207 4040 4 1000	2100-070-310			222	260	Ψ20.0	W 10.5	00 432		
CMV-V560TH/HXR1-B	60Hz	00.0	101.0	00.0	2,4.0	2.0	5500	-1700	31	64					-	200				

Notes: 1, 45kW & 56kW units' power supply are 380~415V/3PH for 50Hz and 208~230V/3PH for 60Hz, the others' power supply is 220~240V/1PH for 50Hz and 208~230V/1PH for 60Hz

- 2. Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB
- 3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

Wall Mounted Unit



Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
1	Standard	Standard (built-in)	1	Standard	1

Air supply smoothly

Cross flow fan, In Cooling mode, cold air is blown from horizontal. I heating mode, warm air is blown from vertical.

. 6 panels can be chosen, suitable for all kinds of decoration style

Simple, elegant, stylish, mirror design, suitable for all kinds of decoration style.

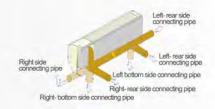


Flexible in installation

Refrigerant pipe can be connected from 3 directions.

Wide adjustable angle air supply

65°Wide angle air supply, louver angle can be fixed or set to auto-swing by controller.



Specification

			Cap	acity		Motor	Ale	flow	Sound			imension (W×H×D)		_	Body	Weight	Cor	necting p	oipe	
Model name	Power	Co	oling	He	ating	input	All	liow	Level	ESP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standan
	type	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controlle
CMV-V22G/HR1-B2	50Hz	2.2	70	0.5	0.5	0.000	510	000	04.00		983×377×300	000-000-046			40	- 11				
CMV-V22G/HNR1-B2	60Hz	22	7.5	2.5	8.5	0.033	540	320	24~33		983×377×300	900×296×216			12	14	Ф9.53			
CMV-V28G/HR1-B2	50Hz	2.8	0.5	20	10.9	0.000	F40	200	04.00			000-000-040			40		Φ9.53			
CMV-V28G/HNR1-B2	60Hz	2.8	9.5	3.2	10.9	0.033	540	320	24~33		983×377×300	900×296×216			12	14				
CMV-V36G/HR1-B2	50Hz	3.6	400		40.0	0.041	600	200	04.00		983×377×300	200, 200, 240			12	.24		40.00		
CMV-V36G/HNR1-B2	60Hz	3.0	12.2	4.0	13.6	0.041	600	360	24~33		903×3//×300	900×296×216		100	12	14		Ф6.35	OD Ф20	Remote
CMV-V45G/HR1-B2	50Hz		450		17	0.044	200	200	20 40	1		414-114-114	1	1	40	44	Ф12.7		00 420	controlle
CMV-V45G/HNR1-B2	60Hz	4.5	15.3	5.0	17	0.041	600	360	33~40		983×377×300	900×296×216			12	14	Ψ12.1			
CMV-V56G/HR1-B2	50Hz	5.6	40.4	6.2		0.000	920	F40	05.40		1145×392×318	4000-004-004			40	40				
CMV-V56G/HNR1-B2	60Hz	5.6	19.1	6.2	21.1	0.052	920	540	35-43		1145*392*310	1080×304×221			16	18				
CMV-V71G/HR1-B2	50Hz	74	010		00.0	0.050	000	F40	OF 40		4445.000.040	4000004004			40	46	4450	Ф9.53		
CMV-V71G/HNR1-B2	60Hz	7.1	24.2	7.8	26.6	0.052	920	540	35~43		1145×392×318	1080×304×221			16	18	Ψ15.9	Ψ9.53		

Notes: 1. Power supply: 220~240V/1PH for 50Hz; 208~230V/1PH for 60Hz

- 2. Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB

 3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

 4. The above data may be changed without notice for future improvement on quality and performance.



Floor Ceiling Unit



		Controller	
Standard		Optional	
Wireless	Wireless	Wired	Centralized
	- II	100	

Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
1	Standard	Standard (built-in)	Optional	Standard	1

Suspended installation, saves valuable floor space

- . The use of ark effect: need to take up valuable floor position.
- . The use of a hanging type indoor machine effect: Due to the adoption of a suspended installation, without occupying the ground position, will be valuable floor space to save up to add a set of



Wide angle air supply



· Configured with low noise high performance centrifugal fans, has big air flow and long distance air supply.

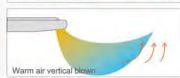






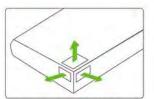
. 3 dimensional air supply, wide air supply angle, easily supply to every corners.



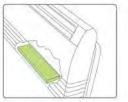


In Cooling mode, cold air is blown from horizontal. In heating mode, warm air is blown from vertical.

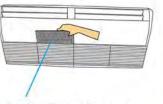
Easy for installation



Refrigerant pipe can be connected



Electrical control box is in the rear of fan wheel casing, easy to remove, convenient



long term filter can be remove from air inlet grille to clean



Specification

1	-		Cap	acity		Motor	Air	flow	Sound	- man	E	Dimension (W×H×D)			Body	Weight	Con	necting p	oipe .	B. C.
Model name	Power	Co	coling	He	ating	input	N/M	IILIW	Level	ESP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid		Standard
	type	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm -	mm	mm	mm	kg	kg	mm	mm	mm	controller
CMV-V45LD/HR1-B	50Hz	40	450	50	474				27 40						200	40				
CMV-V45LD/HNR1-B	60Hz	4.5	15.3	5.0	17	0.06	950	550	37-46						36	42	Ф12.7	AC 25	OD Ф20	
CMV-V56LD/HR1-B	50Hz		40.4	00	24.4	0.00	300	550	07.40						00	10	Ψ12.7	Ψ0.35	OD 420	
CMV-V56LD/HNR1-B	60Hz	5.6	19.1	6.3	21.4				37~46						36	42				
CMV-V71LD/HR1-B	50Hz		24.2	8.0	07.0				00: 10		1325×770×330	1245×680×240			nn	42				
CMV-V71LD/HNR1-B	60Hz	7.1	24.2	8.0	27.2	0.15		700	39-48		1020-170-000	1210.000.210			36	42				
CMV-V80LD/HR1-B	50Hz	0.0	07.0	0.0		0.15	1300	760	20. 10						00	42				
CMV-V80LD/HNR1-B	60Hz	8.0	27.2	8.8	30				39-48	7			7	,	36	42				Remote
CMV-V90LD/HR1-B	50Hz	2.0	222				Views			1			1	1		200				controller
CMV-V90LD/HNR1-B	60Hz	9.0	30.7	10.0	34.1	0.375	1500	880	44~50						38	44	4450	40.50	00 400	
CMV-V112LD/HR1-B	50Hz		200		100				10.00						51		Ф15.9	Ψ9.53	OD Φ25	
CMV-V112LD/HNR1-B	60Hz	11.2	38.2	12.5	42.6		****	7444	45~52						51	58				
CMV-V140LD/HR1-B	50Hz		100	220		0.26	2300	1350			1750×770×330	4070000040								
CMV-V140LD/HNR1-B	60Hz	14.0	47.7	15	51.1				45~52		1750-770-550	1670×680×240			51	58				
CMV-V160LD/HR1-B	50Hz				ma.										100					
CMV-V160LD/HNR1-B	60Hz	16.0	54.5	17	58	0.26	2300	1350	45~52						51	58				

Notes: 1 Power supply: 220~240V/1PH for 50Hz; 208~230V/1PH for 60Hz

- 2. Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB, Heating test condition: Indoor side 20°C DB, 15°C WB outdoor side 7°C DB
- 3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4. The above data may be changed without notice for future improvement on quality and performance.



Fresh Air Processor



	Con	troller	
Standard		Optional	
Wired	Wired	Wireless	Centralized
			24
	1		-
-	51.75		

Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC Motor	DC Motor
Standard	Optional	Standard (built-in)	Optional	Standard	1

Healthy and comfortable

Fresh air is imported, provides a healthy and comfortable living environment.

• 100% Fresh air processing unit

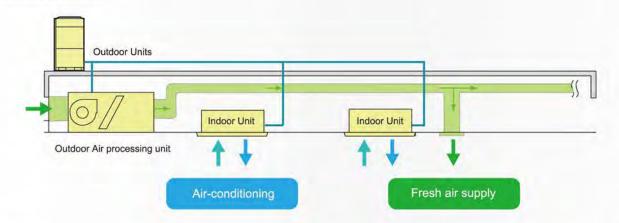
Both fresh air filtration and heating/cooling can be achieved in a single system. Indoor units and fresh air processing unit can be connected to the same refrigerant system, increase design flexibility and greatly reduce total system costs.

High external static pressure

External static pressure can be up to 300Pa for more flexible duct applications. The maximum distance of air supply is about 20m and the maximum height of air supply is about 6.5m.

• Innovative air supply technology for excellent room temperature control

Fresh air unit can be connected with other type indoor units(only for 14/22.4/28kw fresh air unit). Layout Example:



Notes: 1. When VRF system connect fresh air indoor unit and other type indoor units together, the capacity combination ratio between indoor unit and outdoor unit should within 100%.

2. Fresh air unit capacity can't not bigger than 30% of total indoor units capacity.

Specification

			Cap	acity		Motor	A.C.	flow	Sound		D	imension (W×H×D)			Body	Weight	Cor	necting	oipe	Lucial Control
Model name	Power	Co	xoling	He	ating	input	M	now -	Level	ESP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard
	type	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controller
CMV-V140TF/HR1-B	50Hz	440	17.7	9.0	20.7	0.45	1400	200	10.10	200	1245×445×655	4400-070-000			47	51	Ф15.9	Ф9.53		
CMV-V140TF/HNR1-B	60Hz	14.0	47.7	9.0	30.7	0.45	1400	820	42-48	220	1240*440*600	1190×370×620			41	51	Ψ10.0	Ψ3.55		
CMV-V224TF/HR1-B	50Hz	00.4	70.4	400		40	0000	4470	40.00	000	4540500070	4400 440 044			400				OD Ф25	
CMV-V224TF/HNR1-B	60Hz	22.4	76.4	16.0	54.5	1.2	2000	1170	45~52	220	1510×580×870	1465×448×811			100	111	Ф22.2	Ф12.7	00 425	
CMV-V280TF/HR1-B	50Hz	28.0	OF C	20.0	68.2	40	2800	1640	45~52	220	4540-500-070	1465×448×811	7			44.	WZZZ	W12,1		Wired
CMV-V280TF/HNR1-B	60Hz	28.0	95.5	20.0	08.2	1.2	2800	1640	45~52	220	1510×580×870	1465×446×811	1	1	100	111				controller
CMV-V450TF/HZR1-B	50Hz	45.0	153.5	31.4	107.1	1.6	4000	3520	58	300	2267×840×1050	2165×676×916			222	260				
CMV-V450TF/HXR1-B	60Hz	45.0	103.5	31.4	107.1	1.0	4000	3020	28	300	2267×840×1050	2100*0/0*910			111	200	ф28.6	ф15.9	OD 432	
CMV-V560TF/HZR1-B	50Hz	56.0	191.0	39.0	133.0	2.5	6000	4700	62	300	2267×840×1050	2165×676×916			222	260	+20.0	4 10.0	OD TOL	
CMV-V560TF/HXR1-B	60Hz	30.0	191.0	39.0	133.0	4.5	0000	4/00	02	300	2207 *040 × 1030	2100-0/04910	0		222	200				

Notes: 1. 45kW & 56kW units' power supply are 380~415V/3PH for 50Hz and 208~230V/3PH for 60Hz, the others' power supply is 220~240V/1PH for 50Hz and 208~230V/1PH for 60Hz 2. Cooling test condition: Indoor and outdoor side 33°C DB, 28°C WB. Heating test condition: Indoor and outdoor side 0°C DB, -2.9°C WB 3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions. 4. The above data may be changed without notice for future improvement on quality and performance.

Heat Recovery Ventilator



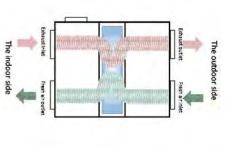
Features

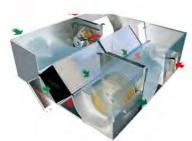
How it works

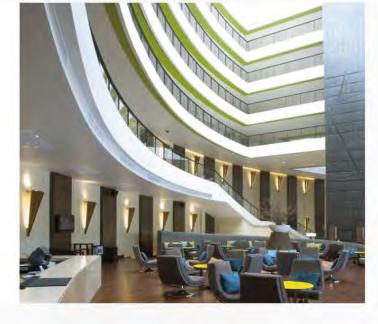
When air flow formed by exhaust air and outdoor air through the heat exchanged core in cross way, because of temperature difference in the two sides of flat partition board, the heat transmission is occurred.

In summer, outdoor air acquire cooling from air exhaust to decrease environment temperature; In winter, outdoor air acquire heating from air exhaust to increase temperature, that is to say, it realizing the energy recovery during air exhaust process to exchange the heating in heat exchanged core to outdoor air.

Application for : business office buildings, hotels, restaurants, meeting rooms, exhibition centres, leisure centres, workshop and other places.







Specification

Suspended type specification

Model	Air flow	ESP	Power input	Power supply	Temperatur efficien	e exhanging cy (%)	Enthalpy efficien	exhanging cy (%)	Noise	Body dimension (WxDxH)	Weight
	m³/h	Pa	W	(V)	Cooling	Heating	Cooling	Heating	dB(A)	mm	kg
QR-X02D	200	75	65		60.0	65.0	50.0	55.0	30	666x580x264	25
QR-X03D	300	75	130		60.0	65.0	50.0	55.0	33	744×599×270	27
QR-X04D	400	80	200		60.0	65.0	50.0	55.0	35	744×804×270	30
QR-X05D	500	80	220	220V/1PH/50Hz	60.0	65.0	50.0	55.0	38	824×904×270	41
QR-X06D	600	90	242		60.0	65.0	50.0	55.0	40	824×904×270	42
QR-X08D	800	100	410		60.0	65.0	50.0	55.0	42	1116×884×388	68
QR-X10D	1000	150	510		60.0	65.0	50.0	55.0	43	1116×1134×388	82
QR-X13D	1300	150	530		60.0	65.0	50.0	55.0	45	1116×1134×388	82
QR-X15DS	1500	160	1000		60.0	65.0	50.0	55.0	51	1600×1200×540	200
QR-X20DS	2000	170	1200		60.0	65.0	50.0	55.0	53	1650×1400×540	225
QR-X25DS	2500	180	2000		60.0	65.0	50.0	55.0	55	1430×1610×600	240
QR-X30DS	3000	200	2100		60.0	65.0	50.0	55.0	57	1600×1700×640	270
QR-X40DS	4000	220	2400	380V/3PH/50Hz	60.0	65.0	50.0	55.0	60	1330×1725×1050	265
QR-X50DS	5000	240	3000		60.0	65.0	50.0	55.0	61	1660×1820×1050	280
QR-X60WS	6000	290	3600		60.0	65.0	50.0	55.0	70	1660×1820×1050	310
QR-X70WS	7000	310	4200		60.0	65.0	50.0	55.0	73	2060×1660×1168	360
QR-X80WS	8000	320	6000		60.0	65.0	50.0	55.0	74	2060×1660×1168	382
QR-X90WS	9000	340	7500		60.0	65.0	50.0	55.0	77	2310×1900×1200	500
QR-X100WS	10000	400	8000		60.0	65.0	50.0	55.0	78	2310×1900×1200	534

Notes:1, Cooling test condition; Indoor side 27°C DB; 19.5°C WB; outdoor fresh air 35°C DB; 28°C; 2. Heating test condition: Indoor side 21°C DB; 13°C WB outdoor fresh air 5°C DB; 2°C; 3. The above data may be changed without notice for future improvement on quality and performance.





Wireless Remote Controllers

Wireless remote controllers

- Indoor unit address inquiry
- Indoor unit address setting
- Temperature setting
- Operation mode setting
- Fan speed setting
- Timer function







Wired Controllers

 Bidirectional communication. Indoor unit's operating parameters (error code, temperature, address) can be inquired and displayed on the controller.











Touch Screen Wired Controller

- APP remote control by WIFI.
- Air filter cleaning reminding function.
- Touch screen with black background and white light
- Ultra thin body and stylish design meet high-end environments.
- On/off, temperature setting, fan speed setting, mode setting, timer and check function.



Simple Centralized Controller

- Easy to install. Controller connects to outdoor units only.
- Able to install this controller after building decoration.
- 1 Controller can control max. 64 indoor units.
- Mode lock function, user can lock the running mode of indoor unit.



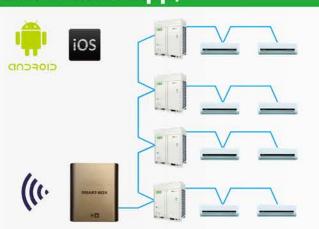


CMV-SMART (Smart centralized control App)

- Available on iOS and Android
- Single unit controller or group control
- Weekly schedule management
- 64 indoor unit can be controlled
- Operation parameter enquiry
- Remote control via cloud server



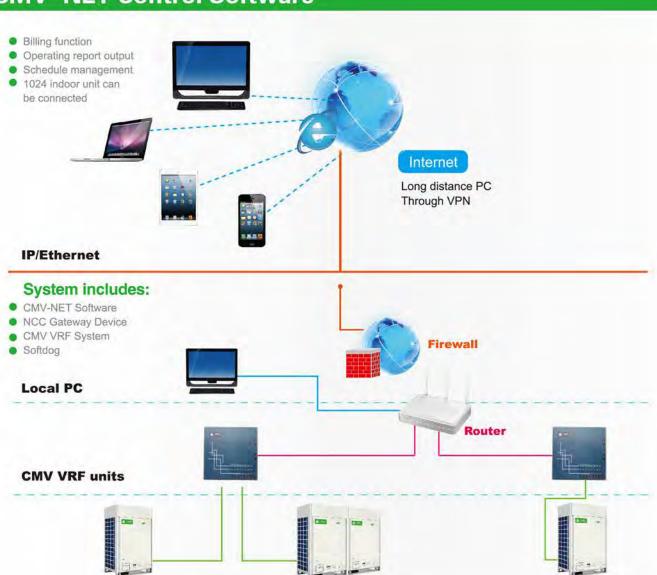




Touch screen centralized controller



CMV-NET Control Software



BMS Gateway

- BACnet gateway
 Verified by BACnet International, fully compatible with all BACnet protocol product
- Modbus gateway
 Outdoor unit built in with Modbus gateway can be customized



Doctor Kit Pro

- · Operating status, error codes inquiry.
- Compressors, sensors, valves operating parameter. real-time monitored and display.
- Commissioning results can be reported.
- Built-in with troubleshooting instruction.



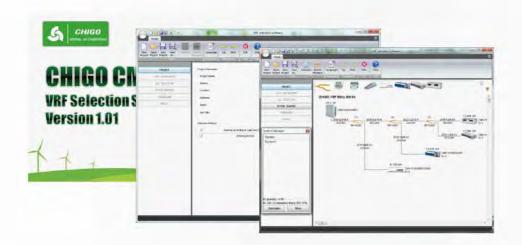
AHU Connection kit

- Chigo AHU connection kit is an interface to allow 3rd party manufacturer's AHU connecting to Chigo VRF outdoor units.
- 4 basic modules: 5HP/10HP/20HP/30HP
- Can be combined into bigger capacity.





VRF Selection Software Pro



PROJECTS



Volgograd Arena, Important venue of the 2018 Russian World Cup, total VRF capacity 2400KW.



Nizhny Novgorod Stadium, Important venue of the 2018 Russian World Cup, total VRF capacity 1600KW.

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PROJECTS

PROJECTS

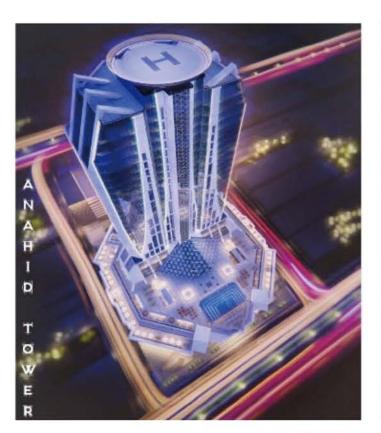


Main venue of the Universiade in Shenzhen, total VRF capacity 8000 kW.



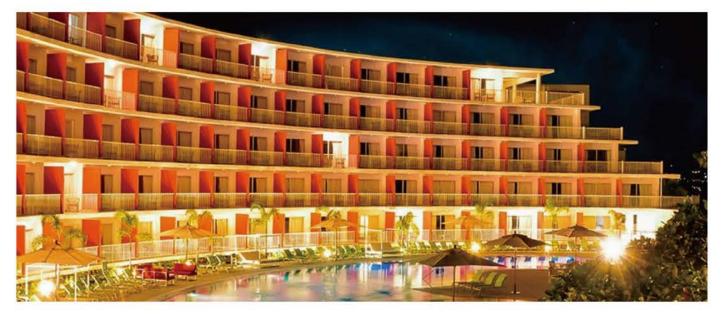
DOUBLE TREE Providence of the contract of the

Double Tree (Hilton) in Russia, with 3 -pipe VRF system.





Tehran, Iran Cooling capacity 2000KW; with CMV-DC inverter VRF system.



Montego bay resort in Jemaica, with DC inverter VRF system.

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