

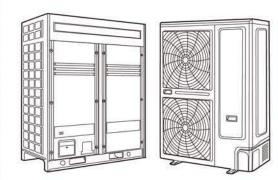
GUANGDONG CHIGO HEATING & VENTILATION EQUIPMENT CO., LTD.

Address : Helangsha , Chigo Industrial District, Lishui, Nanhai, Foshan, Guangdong, China P.C:528244 Tel : 86-757-88781037 Fax : 86-757-88789825 E-mail : isc@chigo-cac.com Web : www.chigo-cac.com

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

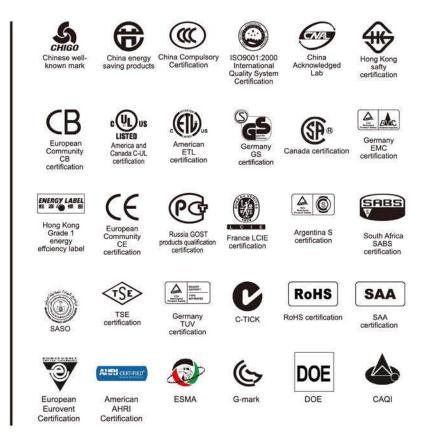












CHIGO GROUP

GUANGDONG 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.

As 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.

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V 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.

GHIGO 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 of people.



THE CHIGO HEATING & VENTILATION EQUIPMENT CO., LTD.

nigo 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

Pass the reexamination of "High-tech Enterprise", honor of "High-tech Enterprise" again.

Honor of "Famous Brand of Guangdong Province" for Chigo CAC product; Honor of "Guangdong Provincial Technology Center for Enterprise"; Honor of "High-tech Enterprise"

Successful bid ten million real estate project (Shenzhen Grade A office) Successful bidder Luo Fu railway project Beijing to participate in China Refrigeration Expo, launched a new "tech blog CMV DC inverter central air conditioning"

The Chigo (including Central Air-conditioning) own the honor "the Best Energy-saving prize of Government Procurement Air-conditioning Project in 2009" The Top Ten Brand Enterprises of Low-carbon & Energy-saving Air-conditioning in the Eleventh Five-Year Plan

The Chigo Central Air-conditioning own the honor of "Top Ten National Brands'

had been established

The Chigo central Air-conditioning



The Chigo Air-cooled (Heat Pump) Chiller is included in the 2009 Energy-saving Product Catalog of National Commerce Domain The Chigo Central Air-conditioning obtains the title "The Chinese Designers Most Trust Ten Nationality Brand of HVAC in 2009" The Chigo industrial air-conditioner obtains "the Guangdong Province Famous Brand Goods"

The Chigo Central Air-conditioning obtains "The Guangdong Famous Brand Goods"

> The Chigo Air-conditioning commence into Commercial Air-conditioning domain



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.

t 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.



Chinese Energy Efficiency Label Management Center's Verification.



Long-term Cooperation with Professional Certification Test Organization.



World-class Professional HR.



Denmark B&K 3560 Acousitics and Vibration Noise Test Analysis System.

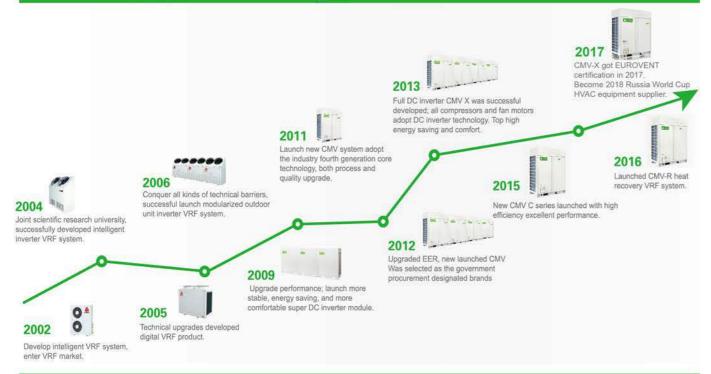


15 Engineers, all had got professional training before commencement.

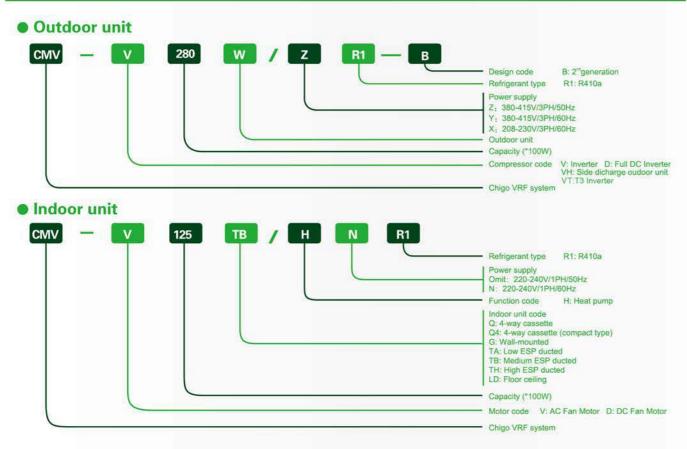
Directory

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CMV Development History



How To Read The Model Name



CMUL-X 380V - 415V / 50Hz & 60Hz FULL DC INVERTER VRF SYSTEM

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.





Capacity	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP
Сараску	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 & 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 5.0 describes the efficiency at full load conditions, the IPLV is derived from the equipment efficiency 4.0 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 1.0 energy usage and operating costs throughout the lifetime of the equipment.



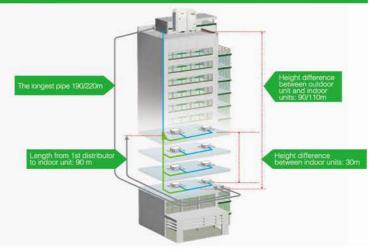




			1	COOM	ng Capacity			r-	1	
HP	Cooling Capacity(KW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	Max. Connected Indoor Unit Quantit
8	25.2	0								13
10	28		•							16
12	33.5			•						16
14	40	1			۲					20
16	45					•				20
18	50									20
20	56									24
22	61.5								0	24
24	67									28
26	73		•							28
28	78	(•				0			28
30	84		•							32
32	89.5								•	32
34	95									36
36	101									36
38	106.5									36
40	112		1		-					42
42	117.5				-					42
44	123									42
46	129		•			•				48
48	134.5	-	•			0				48
50	140	-								54
52	145.5	-						•		54
54	151		•							54
56	156.5									58
58	162.5					•			0	58
60	168		-	-	-	0				58
62	173					-				64
64	179					-		•		64
66	184.5									64
68	190.5				-	•		•	0	64
70	196				-					64
72	201.5				-	-				64
74	207									64
76	212.5				-			-		64
78	218	-	-	•	-			-		64
80	224	-	-		-	0				64
82	229.5		-					-		64
84	234.5	_			0			-		64
86	240.5		-		-					64
88	246				-	-				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.





Conceity	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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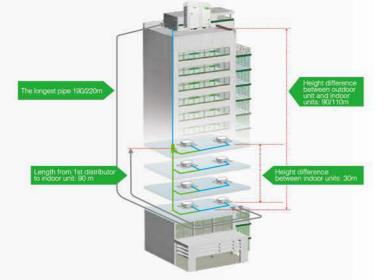
12/14/16HP

18/20HP

			C	ooling Cap	acity			Cooling Capacity							
HP	Cooling Capacity(KW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	Max. Connected Indoor Unit Quanti						
8	25.2							· · · · · ·	13						
10	28		•				1		16						
12	33.5			0					16						
14	40								20						
16	45					•			20						
18	50							1	20						
20	56							•	24						
22	61.5		•						24						
24	68								28						
26	73								28						
28	78								28						
30	84							•	32						
32	89.5							•	32						
34	95								36						
36	101						1	•	36						
38	106							•	36						
40	112								42						
42	117.5							•	42						
44	123							•	42						
46	129	-			-			•	48						
48	134	-						•	48						
50	140		•						54						
52	145.5								54						
54	152			0.80	•				54						
56	157								58						
58	162	-					•	00	58						
60	168								58						
62	175.2	•							64						
64	179							00	64						
66	185						-	00	64						
68	190					2.74		00	64						
70	196						-	000	64						
70	201.5	-						000	64						
74	201.5			-		•		00	64						
76	207							000	64						
78	213					•		000	64						
78 80	218					-		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



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

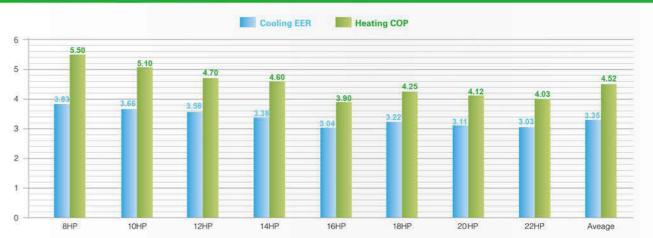
Basic Modules

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



Capacity 6	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+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(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 5.0 describes the efficiency at full load conditions, the IPLV is derived from the equipment efficiency 4.0 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 1.0 energy usage and operating costs throughout the lifetime of the equipment.

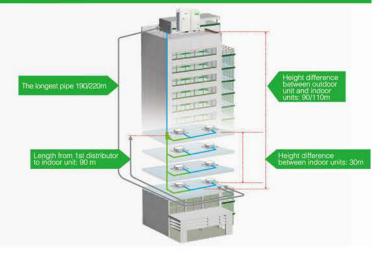




HP	Cooling	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	Max. Connected
	Capacity(KW)							20111		Indoor Unit Quantity
8	25.2	0								13
10	28		0							16
12	33.5			۲						16
14	40									20
16	45					0				20
18	50						0			20
20	56							0		24
22	61.5								•	24
24	67									28
26	73					0				28
28	78		•							28
30	84		•					0		32
32	89.5								•	32
34	95									36
36	101									36
38	106.5					•				36
40	112									42
42	117.5							•		42
44	123									42
46	129		•			•			1	48
48	134.5		•			0			0	48
50	140		•							54
52	145.5								•	54
54	151									54
56	156.5		30.							58
58	162.5					0				58
60	168		-			0				58
62	173	-							00	64
64	179				1					64
66	184.5								000	64
68	190.5				-	•		•	0	64
70	196									64
72	201.5	-				-				64
74	207							0		64
76	212.5								000	64
78	218			•	-			-		64
80	210				-			•	00	64
82	229.5		-						000	64
84	234.5	-			-			-	-	64
86	234.5				-				000	64
88	240.5							0	000	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



CML-C 380V - 415V / 50Hz & 60Hz DC INVERTER VRF SYSTEM

Basic Modules

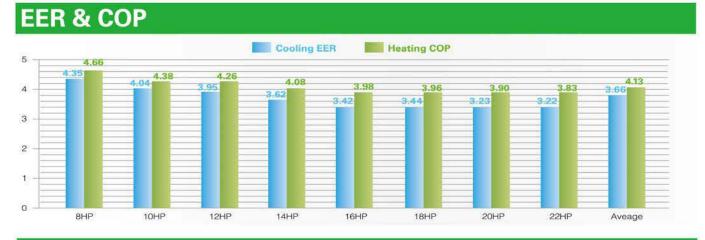
CMV -C is a upgraded product base on CMV -II, it has higher energy saving efficiency by adopting high efficiency big displacement compressors.





8/10HP

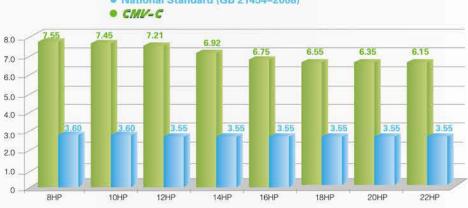
Conceitu	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP
Capacity -	25.2kW	28kW	33.5kW	40kW	45kW	50kW	56kW	61.5kW
Compressor	DC	DC	DC	DC+FIX	DC+FIX	DC+FIX	DC+FIX+FIX	DC+FIX+FIX
Fan motor	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC



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 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 VRF system does not always run at 100% capacity, the EER or COP is not an ideal representation of 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.







12/14/16HP

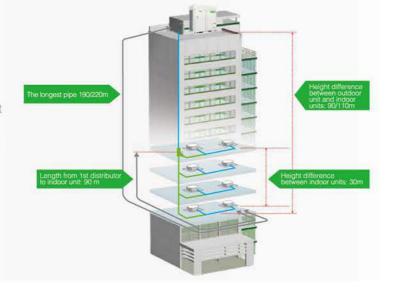
18/20/22HP



				COOII	ng Capaci					
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			0						16
14	40				0					20
16	45					•				20
18	50									20
20	56									24
22	61.5								•	24
24	67									28
26	73		0							28
28	78		•				•			28
30	84		0					•		32
32	89.5		•						•	32
34	95								•	36
36	101					•				36
38	106.5								•	36
40	112									42
42	117.5								•	42
44	123									42
46	129		0							48
48	134.5		•			•			•	48
50	140		0							54
52	145.5		•						•	54
54	151		0							54
56	156.5									58
58	162.5								•	58
60	168					•				58
62	173									64
64	179									64
66	184.5									64
68	190.5		•			•			•	64
70	196		0							64
72	201.5								•	64
74	207							•		64
76	212.5									64
78	218			•						64
80	223			-		•		•	0.0	64
82	229.5					•		1000		64
84	234.5						•		000	64
86	240.5							•		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



CINCLET 380V - 415V / 50Hz INDIVIDUAL TYPE VRF SYSTEM

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

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

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 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 VRF system does not always run at 100% capacity, the EER or COP is not an ideal representation of 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.





26/28/30/32HP



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

CMU-mini SMALL CAPACITY FULL DC INVERTER VRF UNIT

10 Models

8/10kW

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			38	80-415V	
50HZ		1 phase		8/10	/12.5/14/16	W				
300112		3 phase					12	2.5/14/16/18	/22.4/26/28/	33.5kW
60HZ		1 phase		8/10	/12.5/14/16	W				
OUFIZ		3 phase					12	.5/14/16/18	122 4/26/28	33.5kW

EER & COP



Long Piping & Height Difference

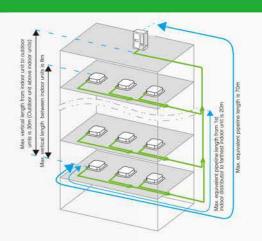
- The total pipe length: 100m (8-18kW), 120m (22.4-33.5kW)
- The longest pipe :
- Actual length 60m
- Equivalent length 70m
- Equivalent length from first indoor distributor to last indoor unit: 20m
- Height deference between indoor and outdoor unit:
- Outdoor unit above <30m
- Outdoor unit below <20m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



12.5/14/16/18kW



22.4/26/28/33.5kW



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



- High Efficiency
- Benefits For Users
- Benefits For Installers



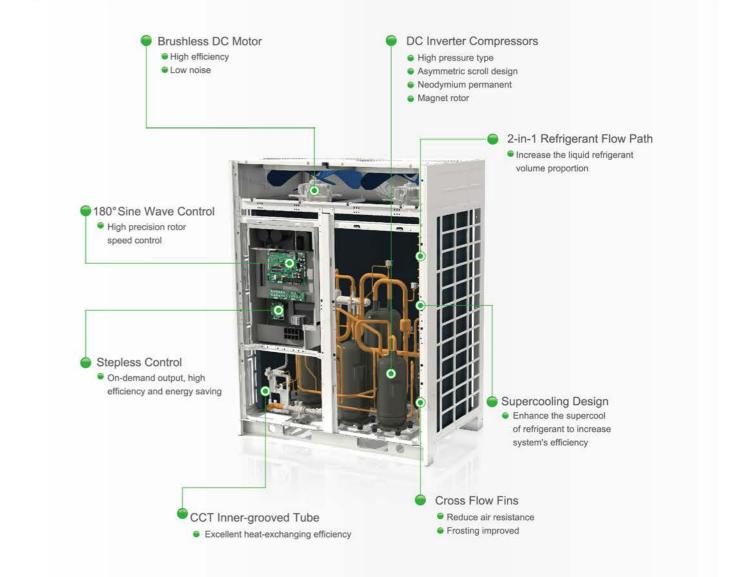
Advantages

High Efficiency

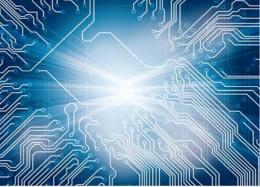
Low carbon life advocate

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











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

High precision processing, improving compression

High strength bearing, high rigidity shell

.

Concentrated winding, improving low frequency efficiency

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

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Special scroll design for R410a

efficiency by 15%

- Small torque fluctuation, low vibration and guiet operation.
- High efficiency due to its patent internal structure design.
- Internal oil circulation structure.
- High Reliability.
- Wide rotation speed range.
- Neodymium permanent magnet rotor, has powerful magnetic force, large torque and high efficiency.
- Concentrated winding, improving low frequency effciency.

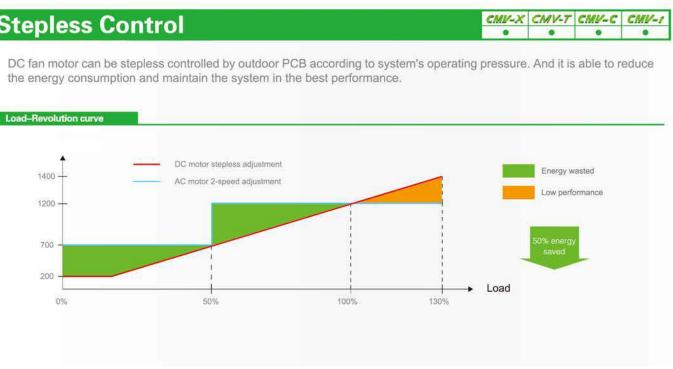


High Efficiency DC Motor

- 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.

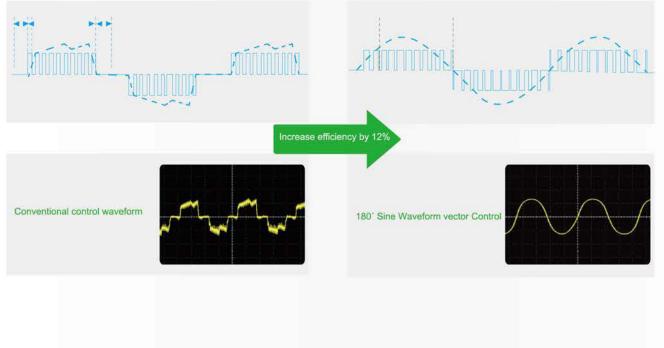


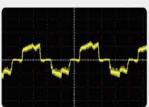




180° Sine Waveform Control

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 efficicency by 12%.







CMV-X	CMV-T	CMV-C	CMV-I	ľ
•	•	•	•	
				1

CCT Inner-grooved Tube

CMV-X	CMV-T	CMV-C	CMV-1
	•	•	•

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

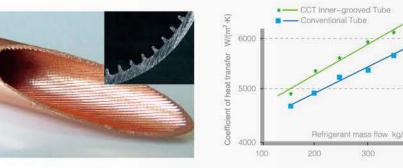
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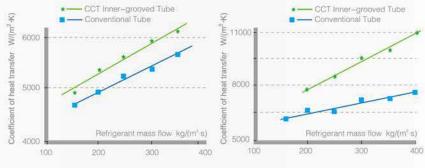
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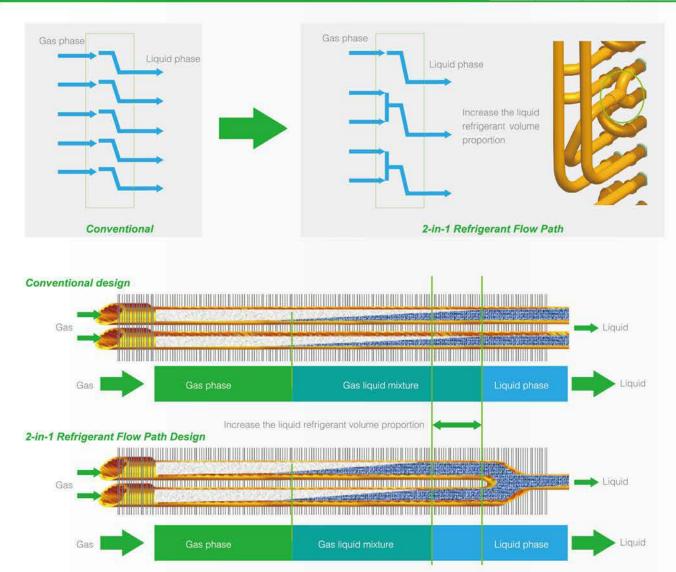
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CCT(Continuous Cooling Transformation) inner-grooved copper tube has high thermometic conductivity. This inner-grooved fins break the refrigerant flow boundary layer to enhance refrigerant disturbance to increase heat-exchanging efficiency.



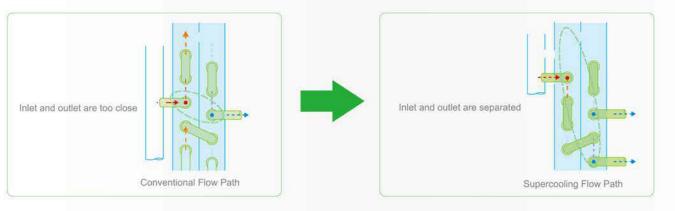


2-in-1 Refrigerant Flow Path Design



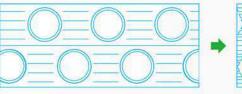
Supercooling Flow Path Design

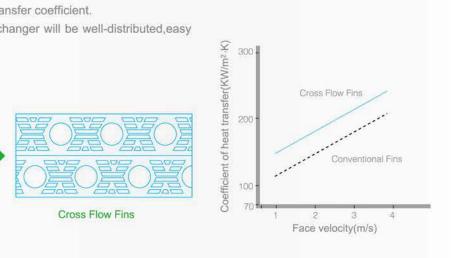
Supercooling flow path design, separates the refigerant inlet and outlet, increase the supercooling degree, reduce the effect of high temperature inlet gas refrigerant to low temperature outlet liquid refigerant, therefore, the system efficiency will be greatly increased.



Cross Flow Fins

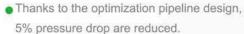
- Has low air resistance and great heat transfer coefficient.
- Frosting improved, frost on the heat-exchanger will be well-distributed, easy for defrosting.



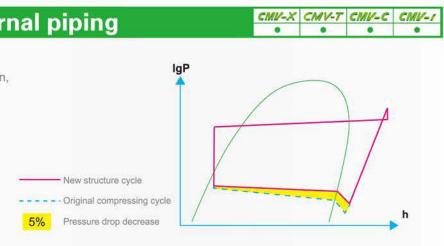


Convention Fins

Low Resistance Internal piping



EER and COP increase, because of evaporating temperature increase and compressor work decrease.





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



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

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

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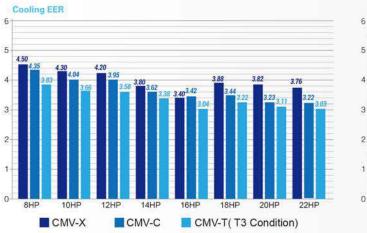
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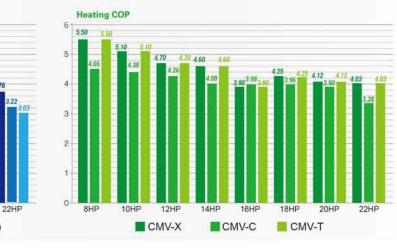
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Excellent in EER and COP

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

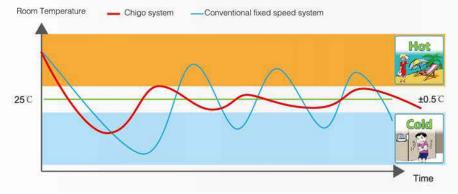




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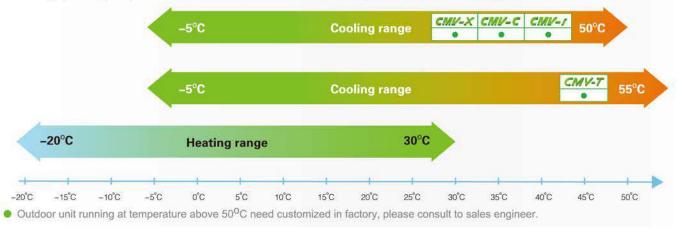
Outstanding Comfort Ability

- 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 N





Low Noise Fan Blade

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



CMV-X	CMV-T	CMV-C	CMV-I	
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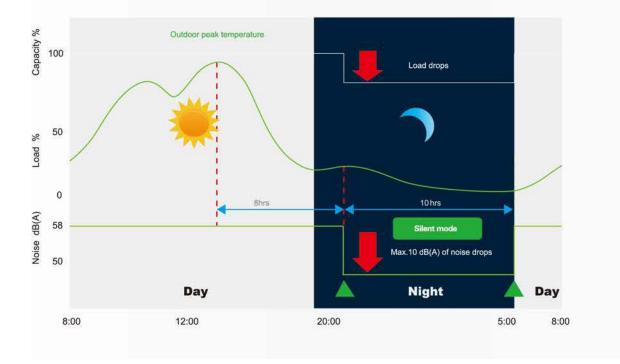
hot region. For T3 VRF units, the cooling operating temperature is up to 55°C. winter, CMV system can stably produce heat.

loise	CMV-X	CMV-T	CMV-C	CMV-I
NOISE	•	•	•	•

CMV-X	X CMV-T	CMV-C	CMV-1
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CMV-X CMV-T CMV-C CMV-I Silent Mode, Night Time Noise Control

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



Snow-proof Function

- 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.



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

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CMV-X CMV-T CMV-C CMV-!

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The PHE Economizer

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



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3-stage Back Up Function

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

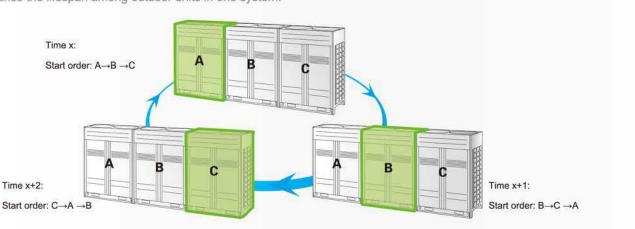






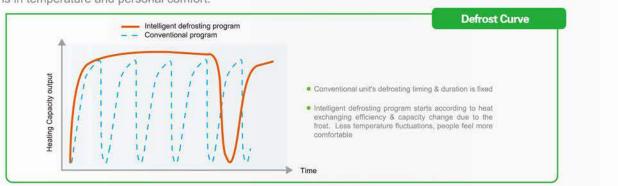
All Outdoor Units Cycle Oper

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



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.



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Fan motor back up function.

When one fan motor is failure, the other onecan keep running by simply settings.





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	CMV-X	CMV-T	CMV-C	CMV-I
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Remote ON/OFF Control Function

- 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

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	Remote ON/OFF		
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Benefits For Installers



Optimization for designer and installer

Emergency Stop Operation Function

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

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

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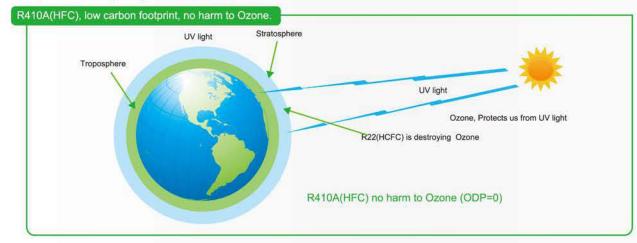
CMV-X CMV-T CMV-C CMV-I

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

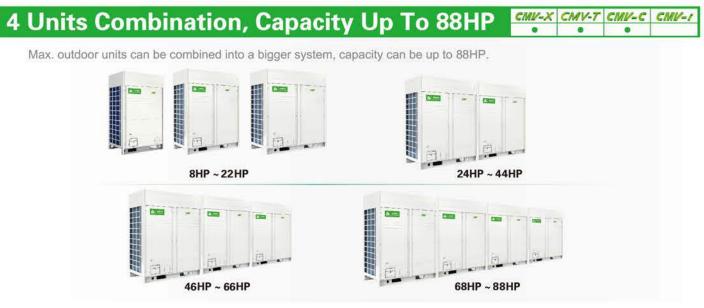


Environment Friendly

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







Individual Type, Saving Insta

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



32HP

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!

llation Work	CMV-X	CMV-T	CMV-C	CMV-1
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Adjustable Outdoor Fan Static Pressure

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



Indoor unit operation state

Indoor unit control order

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.

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

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

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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.



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Addressing Methods

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

LED Display On The PCB

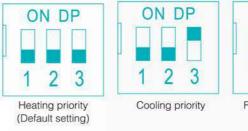
LED display on the PCB, it can show system's operation status and error codes.

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.

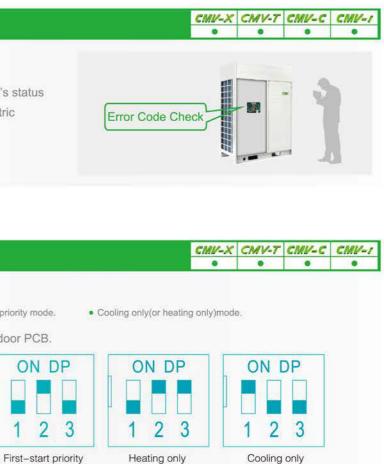
Mode Restriction

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



	CMV-X	CMV-T	CMV-C	CMV-I
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natically.			tomatic	G
e switch on outdoor PCB.		Add	dressing	





Humanized Internal Structure

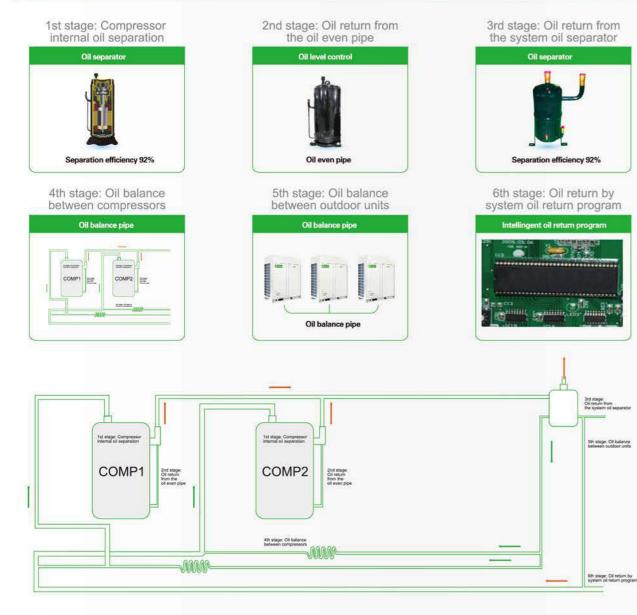
- All key components are designed to close to outside, it is convenient for repair and replacement.
- Thanks to the new balance technology, gas balance pipe does no longer exist, brazing points and leaking risk are decreased.



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

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

6-Stage Oil Control



3–Phase Power Protector (Op

Protect the outdoor unit from instable voltage.



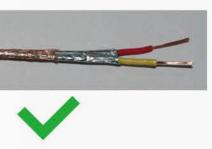
Easy Installation

- Easy for the outdoor unit to transport to roof floor by elevator due to its compact size.
- Communication wire length can be up to 1000m.



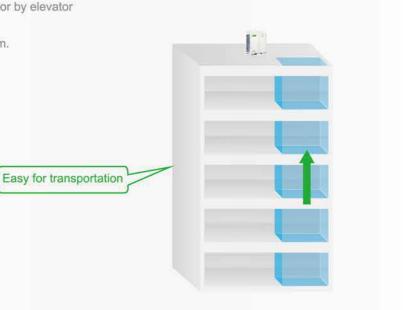
- Save installation cost.
- Reduce manual works.





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CMV-X	CMV-T	CMV-C	CMV-1	
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CMV-X 380V - 415V / 50Hz & 60Hz FULL DC INVERTER VRF SYSTEM

						Basic	modules									2 modules co	mbination				
	HP		08	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
Madal Nama	380~415V/3	PH/50Hz	CMV-D252W/ZR1	CMV-D280W/ZR1	CMV-D335W/ZR1	CMV-D400W/ZR1	CMV-D450W/ZR1	CMV-D500W/ZR1	CMV-D560W/ZR1	CMV-D615W/ZR1	CMV-D670W/ZR1	CMV-D730W/ZR1	CMV-D780W/ZR1	CMV-D840W/ZR1	CMV-D895W/ZR1	CMV-D950W/ZR1	CMV-D1010W/ZR	1 CMV-D1065W/ZR1	CMV-D1120W/ZR1	CMV-D1175W/ZR	1 CMV-D1230W/Z
Model Name	380~415V/3	PH/60Hz	CMV-D252W/YR1	CMV-D280W/YR1	CMV-D335W/YR1	CMV-D400W/YR1	CMV-D450W/YR1	CMV-D500W/YR1	CMV-D560W/YR1	CMV-D615W/YR1	CMV-D670W/YR1	CMV-D730W/YR1	CMV-D780W/YR1	CMV-D840W/YR1	CMV-D895W/YR1	CMV-D950W/YR1	CMV-D1010W/YR	1 CMV-D1065W/YR1	CMV-D1120W/YR1	CMV-D1175W/YR	1 CMV-D1230W/Y
Max. Connected	indoor units q	uantity	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	61.5	67.0	73.0	78.0	84.0	89.5	95.0	101.0	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		BT	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
	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	22.95	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
	1.	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 dat			01010		1							1.1.1.1	1.000			1		10101		1	- P
	Quantity			1DC		2DC		T	1DC+1DC	1DC+1DC 1DC+2DC				2DC+2DC							
Compressor	Type			1101000		Herma	tic scroll	200							Hermatic scrol	ermatic scroll					
	Туре					R4					B410A										
Refrigerant	Throttle type						XV					EXV									
	Volume	Ka	1	0	12		14	16	16.5	17											
	Туре			21		DC	motor		dia dia mandri dia mandri A dia mandri dia man A dia mandri dia ma							DC motor					
Motor	Quantity				1	1.225.54		DC			2DC+2DC		1DC+2DC 2DC+2DC								
	ESP	Pa				8	35	5.0.								85					
Dimension	Net	mm	970×7	65×1620		1260×765×162	0	-	1349×765×1620										1		
(W×D×H)	Packing	mm	1030×8	325×1750		1315×825×175	0		1405×825×1780										E		
Net v	reight	Kg	2	208	242	2	86	295	312	323									7		
Sound pre		dB(A)			58	10	50	60		63									1		
Piping data		1																			
Total equivale	nt Liquid	mm	Ø9.52	Ø	12.7	Ø15	5.88				Ø15.88		019	9.05		1		Ø1	9.05		
peline length <		mm	Ø22.2		25.4	Ø2	8.6	1	Ø31.80		Ø31.80		Ø34	4.90		1		Ø3	8.10		
Total equivale	nt Liquid	mm		012.7		Ø15.88			Ø19.05		Ø19.05		Ø23	2.20					2.20		
ipeline length ≥		mm	Q	ð25.4	Ø28.6	Ø3	1.8		Ø31.80		Ø34.90		Ø38	8.10				Ø4	1,30		
Oil bala	nce pipe	mm			-		1					-				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.

							3 modules	combination	1.			3 modules o	ombination					.4	modules c	ombination	1			
	HP		46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88
lodel Name	380~415V/3	PH/50Hz	CMV-D1290W/ZR1	CMV-D1345W/ZR1	CMV-D1400W/ZR	1 CMV-D1455W/ZI	R1 CMV-D1510W/ZR1	CMV-D1565W/ZR1	CMV-D1625W/ZR1	CMV-D1680W/ZR	CMV-D1730W/ZR1	CMV-D1790W/ZR1	CMV-D1845W/ZR	1 CMV-D1905W/ZR	R1 CMV-D1960W/ZR1	CMV-D2015W/ZR1	CMV-D2070W/ZR	1 CMV-D2125W/ZR	CMV-D2180W/ZR1	CMV-D2240W/ZR1	CMV-D2295W/ZR1	CMV-D2345W/ZR1	CMV-D2405W/Z	11 CMV-D2460W/Z
iouei Name	380~415V/3	PH/60Hz	CMV-D1290W/YR1	CMV-D1345W/YR1	1 CMV-D1400W/YR	1 CMV-D1455W/Y	R1 CMV-D1510W/YR1	CMV-D1565W/YR1	CMV-D1625W/YR1	CMV-D1680W/YR	1 CMV-D1730W/YR1	CMV-D1790W/YR1	CMV-D1845W/YR	1 CMV-D1905W/YF	R1 CMV-D1960W/YR1	CMV-D2015W/YR1	CMV-D2070W/YR	1 CMV-D2125W/YR	CMV-D2180W/YR1	CMV-D2240W/YR1	CMV-D2295W/YRT	CMV-D2345W/YR1	CMV-D2405W/Y	1 CMV-D2460W/Y
lax. Connected	indoor units qu	uantity	48	48	54	54	54	58	58	58	64	64	64	64	64	64	64	64	64	64	64	64	64	64
erformance	e data																							
		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	and the second se	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	144.5	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	and a set	Btu/h	493000	513000	537000	557000	578000	598000	620000	641000	661000	685000	706000	728000	743000	772000	793000	813000	834000	856000	876000	897000	921000	941000
rioaang	Power input	- Hiller	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
hysical dat																								
Compressor	Quantity				1DC+	2DC+2DC				20	C+2DC+2DC					1DC+2DC-	+2DC+2DC					2DC+2DC+2DC+	2DC	
	Type						Hermatic scrol							-					Hermatic scroll					
2002000000000	Туре						R410A												R410A					
Refrigerant	Throttle type						EXV												EXV					
	Volume	Kg					/												1					
	Туре				100.000.000		DC motor				0.000.000						~		DC motor					
Motor	Quantity	De			1DC+2DC+2DC		05			20	C+2DC+2DC			-	100	+2DC+2DC+2D	C		07		2DC+2DC+2	DC+2DC		
	ESP	Pa					85							-					85					
Dimension (W×D×H)	Net Packing	mm					1												1					
	weight	Ka					1							-					T					
	essure level	dB(A)					1. Contraction of the second s												1					
iping data		abit v																						
fotal equivale	ent Liquid	mm	Ø	9.05				Ø	22.2				Ø25.4		Ø25.4					6	125.4			
eline length <		mm		38.10					44.5				Ø44.5		044.5						54.0			
otal equival	ent Liquid	mm	Ø	22.20				Ø	25.4				Ø25.4						Ø25.4					
eline length 2		mm	Ø	1.30				Ø	44.5				Ø54,0						Ø54.0					
Oil bala	ince pipe	mm		14.307-04			Ø6.35						The second second						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.

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

			-			Basic	modules								2	modules co	mbination				
	HP		08	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
	380~415V/3P	H/50Hz	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-D670W/ZR	1 CMVT-D730W/ZR1	1 CMVT-D780W/ZR1	CMVT-D840W/ZR1	CMVT-D895W/ZR1	CMVT-D950W/ZR1	CMVT-D1010W/ZR1	CMVT-D1065W/ZR1	CMVT-D1120W/ZR	1 CMVT-D1175W/ZR	CMVT-D1230W/ZF
Model Name	380~415V/3P		CMVT-D252W/YR1	CMVT-D280W/YR1	CMVT-D335W/YR1	CMVT-D400W/YR1	CMVT-D450W/YR1	CMVT-D500W/YR1	CMVT-D560W/YR1	CMVT-D615W/YR1	CMVT-D670W/YR	1 CMVT-D730W/YR1	1 CMVT-D780W/YR1	CMVT-D840W/YR1	CMVT-D895W/YR1	CMVT-D950W/YR1	CMVT-D1010W/YR	1 CMVT-D1065W/YR1	CMVT-D1120W/YR	1 CMVT-D1175W/YR	1 CMVT-D1230W/YF
Max. Connected	indoor units gu	Jantity	13	16	16	20	20	20	24	24	28	28	28	32	32	36	36	36	42	42	42
Performance	data																				
		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	228000/20640	0 249000/225300	266000/241300	286000/259900	305000/276600	324000/293400	344000/312400	363000/329100	382000/347000	400000/363700	419000/380400
Cooling		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
	Capacity	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
(1) and a set	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 dat	а			1 5.10 4.70 4.60 3.90 4.25 4.12														aha			
	Quantity			1DC				2DC		1	1DC+1DC	0	1DC	+2DC				2DC	+2DC		
Compressor	Туре			1DC 2DC Hermatic scroll												Hermatic scrol	6				
	Type					R4	10A									8410A					
Refrigerant	Throttle type					E	XV									EXV					
	Volume	Kg	1	0	12	1	14	16	16.5	17						1					
	Type					DC r	notor		ito visio	· · · · · · · · · · · · · · · · · · ·						DC motor					
Motor	Quantity						2	DC			2DC+2DC		1DC	+2DC				2DC	+2DC		
	ESP	Pa				8	35									85					
Dimension	Net	mm	970×7	65×1620		1349×765×1620	0	1	1349×765×1620										1		
(W×D×H)	Packing	mm	1030×8	325×1750		1405×825×1780	0		1405×825×1780										L		
Net w	veight	Kg		208	242	21	86	295	312	323									1		
Sound pre	ssure level	dB(A)			58	6	50	60		63									1		
Piping data																					
Total equivale	nt Liquid	mm	Ø9.52	Ø1	2.7	Ø15	5.88				Ø15.88		Ø1	9.05				Ø1	9.05		
peline length <	90m Gas	mm	Ø22.2	Ø2	25.4	Ø2	8.6	1	Ø31.80		Ø31.80		Ø3	4.90				Ø3	8.10		
Total equivale	nt Liquid	mm		012.7		Ø15.88			Ø19.05		Ø19.05		Ø2	2.20				Ø2	2.20		
peline length ≥	90m Gas	mm	6	ð25.4	Ø28.6	Ø3	1.8		Ø31.80		Ø34.90		Ø3	8,10					1,30		
Oil balar	nce pipe	mm		923.4 920.0 931.0 931.00												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

The cooling operating temperature range is non-35 to 55 to 56 to 56 to 18 to

							3 modules	combination	n.			3 modules of	ombination						modules c	ombinatio	n			
	HP	415V/3PH/50Hz CMVT-D1290W/2R1 CMVT-D1345W/2R1 CMVT-D145SW/2R1 CMVT-D1510W/2R1 CMVT-D155SW/2R1 CMVT-D1625W/2R1 415V/3PH/50Hz CMVT-D1290W/YR1 CMVT-D1345W/YR1 CMVT-D1455W/2R1 CMVT-D155SW/2R1 CMVT-D155SW/2R1 CMVT-D155SW/2R1 CMVT-D1625W/2R1 415V/3PH/50Hz 48 48 54 54 54 58 58 State of the state						60	62	64	66	68	70	72	74	76	78	80	82	84	86	88		
	380~415V/3F	PH/50Hz	CMVT-D1290W/ZR1	46 48 50 52 54 56 58 MYF-D1290W/ZR1 CMVT-D1345W/ZR1 CMVT-D1400W/ZR1 CMVT-D1455W/ZR1 CMVT-D1550W/ZR1 CMVT-D1555W/ZR1 CMVT-D1555W/ZR1 CMVT-D1555W/ZR1 CMVT-D1625W/ZR1 S15							1 CMVT-D1730W/ZR1	CMVT-D1790W/ZR1	CMVT-D1845W/ZR1	CMVT-D1905W/ZR1	CMVT-D1960W/ZR1	CMVT-D2015W/ZR1	CMVT-D2070W/ZR1	CMVT-D2125W/ZR1	CMVT-D2180W/ZR1	CMVT-D2240W/ZR1	CMVT-D2295W/ZR	1 CMVT-D2345W/ZR	CMVT-D2405W/ZF	11 CMVT-D2460
lodel Name	380~415V/3F	PH/60Hz	CMVT-D1290W/YR1	CMVT-D1345W/YR1	CMVT-D1400W/YR1	CMVT-D1455W/YR	1 CMVT-D1510W/YR1	CMVT-D1565W/YR1	CMVT-D1625W/YR1	CMVT-D1680W/YR	1 CMVT-D1730W/YR1	CMVT-D1790W/YR1	CMVT-D1845W/YR	CMVT-D1905W/YR1	CMVT-D1960W/YR1	CMVT-D2015W/YR1	CMVT-D2070W/YR1	CMVT-D2125W/YR1	CMVT-D2180W/YR1	CMVT-D2240W/YR	CMVT-D2295W/YR	1 CMVT-D2345W/YR	CMVT-D2405W/YF	R1 CMVT-D2460V
lax Connected				48		-	54	58	58	58	64	64	64	64	64	64	64	64	64	64	64	64	64	64
erformance		((001) (105X)	1			.1. (2011)	1			1.17			1	d) 75% d		1		11		1.			1. 2.1:	(T.)
		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	246/22
	Capacity	-	440000/398800	and the second se	477000/433400	1001 AT 2781 C 10174	515000/466800	533000/483600	554000/502600	573000/519300		61000/553900	629000/570600	649000/589000	668000/605700	687000/623600	706000/640300	725000/657000	743000/673800	764000/694000	783000/709500	800000/725500	000000000000000000000000000000000000000	the second s
Cooling			the water and the attention and			Company of the second sec				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.
(T1/T3)	Power input	KW	34,25/36,73			a second s				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	65.7873.0
	EER	and the second second						and the second se		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	3.69/3.09	3.67/3.03	3.77/3.07	3.77/3.05	3.74/3.03
		KW	144.5	CONTROLOGY CONTROLS					204 036 036 8 0340	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
101.0	Capacity	10.00 C	a souther the second	513000 537000 557000 578000 598000 620000 64100 36.12 36.76 38.59 40.42 42.22 45.23 47.06							661000	685000	706000	728000	743000	772000	793000	813000	834000	856000	876000	897000	921000	941000
Heating	Power input											49.53	51.36	51.41	53.24	53.88	55.71	57.54	59.34	62.35	54.19	64.54	66.66	68.49
	COP	- Alicenter				distance in the second second		V (a Colar		11125	111.02	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
hysical dat		t kW 34.29 36.12 36.76 38.59 40.42 42.22 45.23 47.06 47.42 W/W 4.21 4.17 4.28 4.24 4.19 4.16 4.02 3.99 4.09 IDC+2DC+2DC									100													
	Quantity				1DC+2	2DC+2DC				20	C+2DC+2DC					1DC+2DC+	2DC+2DC					2DC+2DC+2DC	+2DC	
Compressor	Туре						Hermatic scrol		Al										Hermatic scroll					
	Туре																	B410A						
Refrigerant	Throttle type	1														EXV								
	Volume						1												1					
	Туре						DC motor												DC motor					
Motor	Quantity				1DC+2DC+2DC			1		20	C+2DC+2DC				100	C+2DC+2DC+2D	P.				2DC+2DC+2	DC+2DC		
0.000	ESP	Pa					85								1076				85		178.0.750.01	an a		
Dimension	Net	- Andrew					1												1					
(W×D×H)	Packing	mm					Ĩ												Ť					
Net	veight	Ka					T												7					
	ssure level	dB(A)					ÚF-												1					
iping data																			1.200					
Total equivale	nt Liquid	mm	Ø1	9.05				Ø	22.2				Ø25.4	Ø	25.4						Ø25.4			
line length <		mm	Ø3	18.10				Ø	44.5				Ø44.5	Ø	44.5						Ø54.0			
Total equivale	nt Liquid	mm	Ø2	2.20				Ø	25.4				Ø25.4						Ø25.4					
eline length ≥		mm	Ø4	1.30				Ø	44.5				Ø54.0						Ø54.0					
	nce pipe	mm	11.20	044.5 Ø6.35									In the second second						Ø6.35					

as:1. Cooling operating temperature range is from -5°C to 55°C. Heating operating temperature range is from -20°C to 30°C
The cooling conditions: T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB, T3 condition: indoor side 27°C(80.6°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
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 for future improvement on quality and performance.

CMU-X 208V-230V / 60Hz FULL DC INVERTER VRF SYSTEM

					Bas	ic modules									2 modules con	nbination					
1	1P		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
Model Name	208~230V/3PH/6	OHz C	MV-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	R1 CMV-D1175W/XR	R1 CMV-D1230W/X
Max. Connected	indoor units quant	ity	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	$\begin{array}{c c c c c c c c c c c c c c c c c c c $						191000	209000	228000	249000	266000	286000	305000	324000	344000	361000	382000	400000	419000	
Cooling	0.000	Basic modules 8 10 12 14 16 18 -230V/3PH/60Hz CMV-D252W/XR1 CMV-D280W/XR1 CMV-D335W/XR1 CMV-D400W/XR1 CMV-D450W/XR1 CMV-D450W/XR1 CMV-D500W/XR1 CMV-D450W/XR1 CMV-D450W/XR1 CMV-D450W/XR1 CMV-D500W/XR1 CMV-D500W/XR1 CMV-D500W/XR1 CMV-D450W/XR1 CMV-D450W/XR1 CMV-D500W/XR1 CMV-D450W/XR1 CMV-D500W/XR1 CMV-D450W/XR1 MV-D450W/XR1 CMV-D450W/XR1 MV-D450W/XR1 MV-D450W/						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	
	Power input	KW	5.79	CMV-D280W/XR1 CMV-D335W/XR1 CMV-D400W/XR1 CMV-D450W/XR1 CMV-D500W/XR1 CMV-D50W						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	3.56	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	190960	214000	235000	255000	278000	298000	322000	342000	361000	385000	406000	429000	450000	470000
Heating	Power input	KW	5.89	7.2	8.82	10.99	12.45	14.14	16.02	16.02	17.64	19.65	21.34	23.22	25.17	26.59	28.47	30,16	32.04	33.04	33.66
	COP	W/W	4.65	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																					
	Quantity			1				2		1+1	1+1		1-	+2				2+2		1	+1+2
Compressor	Туре	1 2 Hermetic scroll													Herme	etic scroll					
	Туре				R4	10A										R	410A				
Refrigerant	Throttle type				E	<v .<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td><td>EXV</td><td></td><td></td><td></td><td></td></v>										E	EXV				
	Volume	Kg	1	0	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+16.5
	Туре				DC n	notor									DC motor						- S.
Motor	Quantity			1	t		2			1+2	2+2		1+2		24	2		2+2		1+2+2	2+2+2
	ESP	Pa			14	85							85						85		
Dimension	Net	mm	970×76	65×1620		1260×765×162	0	1349 ×76	65×1620				1						T		
(W×D×H)	Packing	mm	1030×8	25×1750		1315×825×17	50	1405 ×82	25×1780				1				1		1		
Net weig	ght	Kg	20	08	242	2	86	305	320				1						1		
Sound pressu Piping data	ure level	IB(A)		58			60		63				T						1		
Total equivalent	Liquid	mm	(30.52	(b.1	2.7			01	15.99		Ø15.88			Ø19.05			1		Ø19.05		
peline length < 90	Contraction of the local data in the	mm	Ø 22.2			0	28.6	0	Ø3	1.9	6 15.00			©34.9		1	1		Ø 38.1		
Total equivalent		mm	@ ZZ.Z @1			Ø15.88	60.0		Ø19.05	1.0	Ø19.05			And 6			22.2		\$20.1		
peline length ≥ 90	and the second s				@28.6	2710.00	m31.8			31.8	Ø 34.9			Ø 38.1			P. Balla		Ø41.3		
Oil balance		mm Φ25.4 Φ28.6 Φ31.8							, v		20 34,8			12.30.1	Ф6.35						

Notes:

Cooling 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 outdoor side 35°C(95°F) DB
 The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB
 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 for future improvement on quality and performance.

	and the second			and the second secon	3 modules c	ombination	-	and the second second			and the second secon				4 modules comb	pination		and the second se		
	KW 129.0 134.0 140.0 145.5 Capacity Btu/h 440000 457000 477000 496000 RT 36.6 38.1 39.8 41.3 Power input KW 35.5 3.52 3.47 3.48 EER WW 3.55 3.52 3.47 3.48 Capacity Btu/h 443000 513000 537000 Power input KW 36.6.7 37.38 39.24 40.86 Cope W/W 4.05 4.03 4.01 4.00					54	56	58	60	62	64	66	68	70	72	74	76	78	80	
Model Name	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$						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	CMV-D2180W/XR1	CMV-D2240W/XR1	
Max. Connected in	$\begin{array}{c c c c c c c c c c c c c c c c c c c $					58	58	64	64	64	64	64	64	64	64	64	64			
Perform	ance 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		496000	518000	535000	552000	573000	597000	610000	631000	648000	668000	687000	706000	726000	743000	764000
Cooling		BT							46.0	47.7	49.8	50.8	52.6	54.0	55.7	57.2	58.8	60.5	61.9	63.6
ocomig	Power inpu	ut KW					10.0 20121		47.82	50.04	49.17	50.34	53.02	54.76	56.98	58.53	60.54	62.76	64.50	66.72
									3.39	3.36	3.56	3.56	3.49	3.47	3.44	3.44	3.42	3.39	3,38	3.36
-	In tail V.								182.0	189.0	195.4	201.0	207.5	213.5	220.5	224.0	232.0	239.0	245.0	252.0
Heating	Capacity								620000	644000	666000	685000	707000	728000	752000	764000	791000	815000	835000	859000
nearing		EP CONTIT							46.18	48.06	48.31	49.68	51.69	53.38	55.26	56.88	58.63	60.51	62.20	64.08
	Company of the second second second							1	3.94	3.93	40.51	4.05	4.01	4.00	3.99	3.94	3.96	3.95	3.94	3.93
Dhuni		VV/VV	4,00	4,05	4.01	4.00	5,95	3,80	3.94	3.93	4,04	4.00	4.01	4.00	0.99	3.84	3,90	3,95	5,84	3,95
Filysi		1		31.010				24212			1+2+2+2	2+2+2+2		3.4	+2+2			242	+2+2	
Compressor	and the second sec			17272	Demontio e cent			27272			1727272	2727272	Hermel		7272	4		272	7272	
-													R4							_
Refrigerant		4												XV						
Reingerant	and the second s	e	40+40+40 E	40+45+40 E		10.100.000	40,40	6.10 E	15+16.5+16.5	16.5+16.5+16.5	10+15+15+15	10140140 5140 5	10+16+16.5+16.5		40.40 5.40 5.40 5	40140 C140 E140 E	10,40,40,5,40,5	40.40 E140 E140 E	45.405.405.405	16.5+16.5+16.5+16.
2		ĸg	10+10+10.5	10+10+10.0		12+10.3+10.5	10+10	.0+10.0	10710.0110.0	10.3+10.3+10.3	10+15+15+15	12712710.0710.0			10+10.0+10.0+10.0	12+10.3+10.3+10.3	10+10+10.0+10.0	10+10.0+10.0+10.0	10+10.0+10.0+10.0	10.0+10.0+10.0+10.
440500	and the second sec	-	373	040				0.0.0				0.0.0.0	DC 1					0.0.0.0		
Motor	The second secon		1+2	(+Z	1107101000			2+2+2			1+2+2+2	2+2+2+2		1+2+2+2				2+2+2+2		
1	7.5				85		<i>w</i>						8	0		11				
Dimension (W×D×H)	1070					19	/									4				
																1				
							<u>[</u>									1				
		dB(A)					15									1				
Total equivalent pipeline length < 90	100 million	mm	Ø1					Ø2	2.2			1272			202		Ø25.4			
hiberine religni < ao	Guo	mm		Ø38.1				Ø44.5				14.5			44.5				4.0	
Total equivalent	Liquid	mm	Ø22.2		Ø25.4			02				25.4			25.4				25.4	
pipeline length ≥ 90	040	mm	Ø41.3		Ø44.5			Ø4				44.5		Ø	54.0			Ø5	4.0	
Oil balar	nce pipe	mm			Φ6.35			Φ6	.35		Φį	5.35				Φ	3.35			

Notes:

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.

CMU-C 380V - 415V / 50Hz

						Basic m	odules								2	modules combin	ation				
1	Acceled indoor units quantity 13 16 16 20 20 20 24 24 Ance data KW 25.2. 28.0 33.5 40.0 45.0 50.0 56.0 66.1 61.5 Burk 85000 95000 114000 138000 153000 170000 191000 2090 Power input KW 5.79 6.95 8.48 11.05 13.16 14.53 17.34 19.1 EER WW 4.35 4.03 3.95 3.62 3.42 3.44 3.23 3.32 Capacity Burk 93000 107000 127000 153000 170000 214000 23500 Power input KW 5.88 7.21 8.80 11.03 12.56 14.14 16.15 18.0 Power input KW 5.88 7.21 8.80 11.03 12.56 14.14 16.15 18.0 Or Type 1DC DC DC					22	24	26	28	30	32	34	36	38	40	42	44				
Model Name	380~415V/3PI	H/50Hz C	MV-V252W/ZR1-C	CMV-V280W/ZR1-0	CMV-V335W/ZR1-0	CMV-V400W/ZR1-C	CMV-V450W/ZR1-C	CMV-V500W/ZR1-C	CMV-V560W/ZR1-C	CMV-V615W/ZR1-C	CMV-V670W/ZR1-C	CMV-V730W/ZR1-	C CMV-V785W/ZR1-C	CMV-V835W/ZR1-0	CMV-V900W/ZR1-C	CMV-V950W/ZR1-0	CMV-V1000W/ZR1-	C CMV-V1065W/ZR1-	CMV-V1115W/ZR1-	C CMV-V1175W/ZR1-	CMV-V1230W/ZR
		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	28.0	33.5	40.0	45.0	50.0	56.0	61.5	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
0.000	Power input	t 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
	and the second s		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
			27.4	31.5	37.5		50.0	56.0		69.0	75.0	81.5	87.5	93.5	100.0	106.0	112.0	119.0	125.0	132.0	138.0
	Capacity	Btu/h	93000		127000			191000	10000	235000	255000	278000	298000	319000	341000	361000	382000	406000	426000	450000	470000
Heating	Power input	t 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
		and the second se	4.66	4.37	4.26	4.08		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																					
11540 0 K 11925 VOL4025 COL		1		1DC			1DC+1Fix		1DC	⊧2Fix	1DC+1DC		2DC+1Fix			2DC+2Fix		2DC-	+3Fix	2DC	+4Fix
Compressor	Type					Herr	natic scroll									Hermatic scrol					
						1	R410A									R410A					
Refrigerant	Throttle type						EXV									EXV					
	Volume	Kg		10	12	11	14	15	16.5	17						1					
	Type					D	C motor									DC motor					
Motor			3	DC				2	2DC		2DC+2DC	1DC+2DC				2DC+2DC					
	ESP	Pa					85									85					
Dimension	Net	mm	970×	765×1620		1260×765×1620			1349×765×1620							1					
(W×D×H)	Packing	mm														1					
Net wei	ight	Ka		206	242			295	3	15						7					
Sound press	¥						60		6	3						1					
Piping data		1																			
Total equivalent	Liquid	mm	Ø9:52	Ø	12.7			Ø15.88			Ø15.88		Ø1	9.05				Ø	9.05		
peline length < 90		mm	Ø22.2		25.4	Ø	28.6	5.050570	Ø31.8		Ø31.8			4.9					38.1		
Total equivalent		mm		2.7	File.	Ø15.88			Ø19.05		Ø19.05			2.2					22.2		
peline length ≥ 90		mm		25.4	Ø28.6		Ø31	.8			Ø34.9			38.1					41.3		
Oil balance	e plac	mm			and the state of the	Ø	6.35	1973								04	.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.

					3 modules combination					3 modules of	ombination		
	HP		46	48	50	52	54	56	58	60	62	64	66
odel Name	380~415V/3PH	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
ax. Connected	ndoor units quan	tity	48	48	54	54	54	58	58	58	64	64	64
erformance	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	C Annother and the second second	438000	460000	477000	494000	516000	533000	551000	573000	590000	610000	629000
Cooling	1.	RT	36.5	38.3	39.8	41.2	43.0	44.4	45.9	47.7	49.1	50.8	52.4
	Power input	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
		KW	143.5	150.0	156.5	162.0	169.0	175.0	181.0	188.0	194.0	201.0	207.0
Heating	Capacity	Btu/h	489000	511000	533000	552000	576000	597000	617000	641000	661000	685000	706000
Heating	Power input	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		4.04	3.98	3.97	3,97	3.92	3.91	3.91	3.87	3.87	3.85	3.83
nysical data													
Compressor	Quantity		2DC+4Fix		3DC+3Fix		3DC+4Fix	3DC+	-4Fix	3DC	+5Fix	3DC+6Fix	3DC+6Fix
oompreasor	Туре				Hermatic scroll					Herma			
	Туре				R410A					R4	10A		
Refrigerant	Throttle type	£			EXV					E	XV		
	Volume	Kg			1						/		
	Туре				DC motor					DC			
Motor	Quantity				2DC+2DC+2DC+2DC					2DC+2DC	+2DC+2DC		
	ESP	Pa			85					5	15		
Dimension (W×D×H)	Net	mm			1						1		
(W×D×H)	Packing	mm			1						1		
Netv		Kg			1						1		
Sound pr	essure level	dB(A)			1						1		
iping data													
Fotal equivalent aline length < 90	Liquid	mm	Ø19	9.05		Ø22.2				Ø2	2.2		Ø25.4
line length < 9	Om Gas	mm	Ø3			Ø44.5				Ø4	4.5		Ø44.5
otal equivalen	Liquid	mm	Ø2	2.2		Ø25.4				Ø2	5.4		Ø25.4
line length ≥ 9	0m Gas	mm	Ø4			Ø44.5				Ø4			Ø54.0
Oil bala	nce pipe	mm	Ø6	.35		Ø6.35				Ø6	35		

Notes:

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.

CMV-C

					4 modules combination	E		-
Max. Connected indoor 1 Performance data Cooling Cooling Heating Heating Compressor Compressor Compressor Compressor Compressor Compressor Compressor Compressor Physical data Total equivalent Total equivalent Sound press Total equivalent	IP		68	70	72	74	76	78
Model Name	380~415V/3PH	/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
Model Name 380-41 Max. Connected indoor unil Performance data Performance data Cay Cooling Powe Powe E Heating Powe Heating Powe Heating Powe Compressor Que Compressor Throt Voi Tr Motor Que Net weight Sound pressure lew Pipeline length < 90m C Total equivalent Lii Total equivalent Lii	door units quanti	ty	64	64	64	64	64	64
Performance d	ata							
		KW	190.0	195.0	200.0	206.5	213.0	218.0
	Capacity	Btu/h	648000	665000	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
	Conneller	KW	212.0	218.0	224.0	231.5	238.0	244.0
Model Name 380-4 Max. Connected indoor ui Performance data Cooling Co Cooling Pow Heating C Heating C Physical data Q Compressor Q Refrigerant Thru Wotor Q Dimension Q Dimension P Sound pressure le Piping data Total equivalent I pipeline length < 90m	Capacity	Btu/h	723000	743000	764000	788000	812000	832000
nealing	Power input	KW	53.41	54.99	56.57	58.88	61.16	62.74
	COP	W/W	3.97	3.96	3.96	3.93	3.89	3.89
Physical data								
Compressor	Quantity			4DC+4Fix		4DC+5Fix	4DC	+6Fix
Compressor	Туре				Hermat	ic scroll		
	Туре				R41	10A		
Refrigerant	Throttle type				E)	<		
	Volume	Kg				(
	Туре				DC n	notor		
Motor	Quantity				2DC+2DC+	2DC+2DC		
	ESP	Pa			8	5		
	Net	mm)	(
(W×D×H)	Packing	mm						
Net we	eight	Kg				1		
Sound pre	Quantity Quantity Type Type Type Type Refrigerant Throttle type Volume Kg Quantity Guantity Motor ESP Dimension (W×D×H) Net mm Net weight Kg Sound pressure level dB(A) oial equivalent Liquid mm				1			
Piping data								
Total equivalent		mm	Ø25	5.4		0	25.4	
pipeline length < 90r	n Gas	mm	Ø44	4.5		Ø	54.0	
	Liquid	mm			Ø25.4			
	m Gas	mm			Ø54.0			
Oil balan	ce pipe	mm			Ø6.35			

Notes:

Cooling 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 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		
51	P		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	door units quanti	ty	64	64	64	64	64
Performance d	ata						
		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	66.6	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	Capacity	Btu/h	852000	876000	897000	921000	941000
rieaung	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							
Comproses	Quantity		4DC+6Fix		4DC+7Fix	4DC	+8Fix
Compressor	Туре				Hermatic scroll		
	Туре				R410A		
Refrigerant	Throttle type				EXV		
	Volume	Kg			1		
	Туре				DC motor		
Motor	Quantity				2DC+2DC+2DC+2DC		
	ESP	Pa			85		
Dimension	Net	mm			1		
(W×D×H)	Packing	mm			1		
Net we	light	Kg			1		
Sound pres	ssure level	dB(A)			/		
Piping data							
Total equivalent	Liquid	mm		Ø2	25.4		
pipeline length < 90n	n Gas	mm		Ø5	54.0		
Total equivalent	Liquid	mm		Ø2	25.4		
ipeline length ≥ 90	n Gas	mm		Ø5	54.0		
Oil balan	ce pipe	mm		Ø6	1.35		

Notes:

Cooling 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 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.

CMV-1

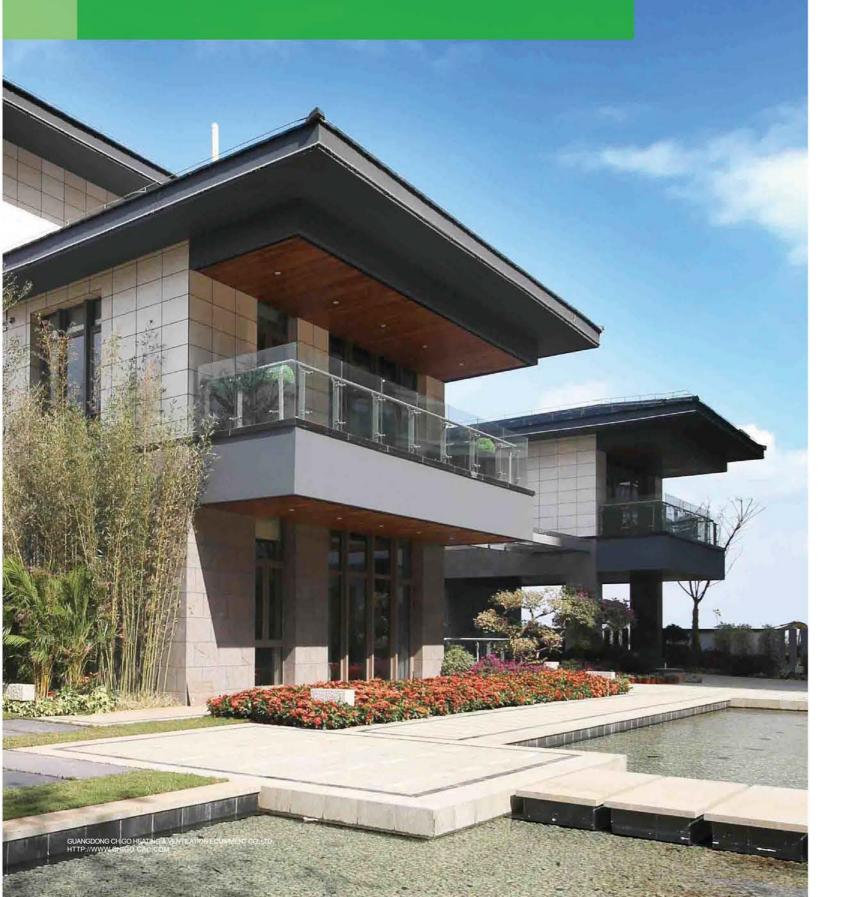
HP)		18	20	22	24
Model Name	380~415V/3P	H/50Hz	CMV-V530W/ZR1-Bi	CMV-V560W/ZR1-Bi	CMV-V600W/ZR1-Bi	CMV-V670W/ZR1-B
Max.Connected indoor u	inits quality		20	20	24	28
Performance data						
		KW	53	56	60	67
	Capacity	Btu/h	180000	190000	204000	228000
Cooling		RT	15.1	16.0	17.1	19.1
	Power input	KW	18.6	17.6	18.3	20.8
	EER	W/W	2.85	3.18	3.28	3.22
	Consoitu	KW	60	63	67	75
Unation	Capacity	Btu/h	204000	215000	228000	255000
Heating	Power input	KW	17	17	17.8	19.8
	COP	W/W	3.53	3.71	3.76	3.79
Physical data						
0	Quantity		3	3	3	3
Compressor	Туре	1		Hermet	ic scroll	
	Туре			R4	10A	
Refrigerant	Throttle type			E	KV .	
	Volume	Kg	17	17	17	17
	Туре	1977	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
Dimension (WXNXD)	Packing	mm	2030×1750×825	2030×1750×825	2030×1750×825	2030×1750×825
Net weight		Kg	390	390	390	390
Sound pressure	elevel	dB(A)	≤63	≤63	≤63	≤63
Piping data						
Total equivalent pipeline	Liquid	mm	Φ15.88	Φ15.88	Ф15.88	Φ15.88
length<90m	Gas	mm	Ф31.8	Φ31.8	Ф31.8	Ф34.9
Total equivalent pipeline	Liquid	mm	Φ19.05	Ф19.05	Φ19.05	Φ22.2
length>=90m	Gas	mm	Ø31.8	Φ31.8	Φ31.8	Φ34.9

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

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-B
Max.Connected ind	door units quality		28	28	32	32
Perform	nance 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
	Connaity	KW	81.5	88	95	100
Heating	Capacity	Btu/h	278000	300000	324000	341000
Heating	Power input	KW	20.6	25.4	26	26.8
	COP	W/W	3.96	3.46	3.65	3.73
Phys	ical data					
0	Quantity		4	4	4	4
Compressor	Туре			Hermet	ic scroll	
	Туре			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	5	
Dimension (WxHxD)	Net	mm	2541×1620×765	2541×1620×765	2541×1620×765	2541×1620×765
Dimension (WXHXD)	Packing	mm	2601×1750×825	2601×1750×825	2601×1750×825	2601×1750×825
Net weight		Kg	530	530	530	530
Sound pressure	level	dB(A)	≤65	≤65	≤65	≤65
Pipi	ng data					
Total equivalent pipeline	Liquid	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05
length<90m	Gas	mm	Ф34.9	Ф34.9	Ф34.9	Ф34.9
Total equivalent pipeline	Liquid	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
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. 5. The above data may be changed without notice for future improvement on quality and performance.







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:

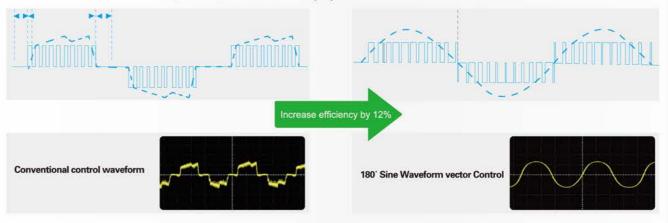
Reduced the vibration during compressor start and operation by using 2CYL Structure, simplified the match of air-conditioning.

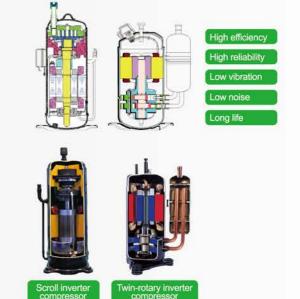
High Efficiency DC Motor

- 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%.

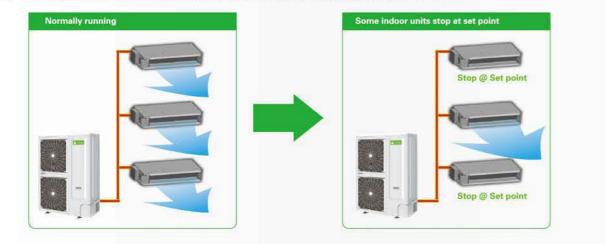




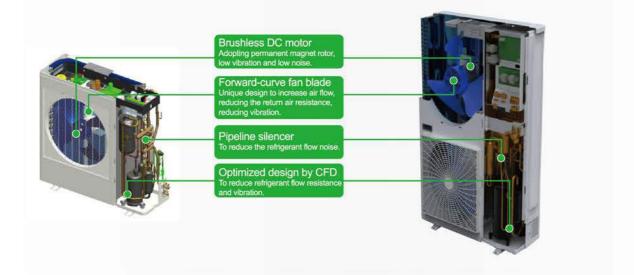


Fast Cooling And Heating

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.

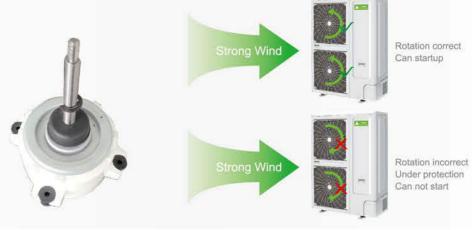


Intelligent Defrosting Program

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



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.



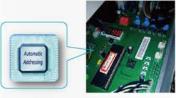


Active PFC Module

- 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

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



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



CMV mini Specification

	1 Statement			Cooling					Heatin	g		Compr	essor	Mo	itor	Refrig	jerant	Sound	Sound power	Dimension(V	V×H×D)	We	ight	Conr	recting	Max. Connect
Model name	Power type		pacity Btu/h	Power input kW	Current	EER		acity F Btu/h	ower input	Current	COP	Туре	Quantity	Туре	Quantity	Туре	Volume kg		Level dB(A)	Packing	Body				Liquid	indoor u
CMV-V080W/R1	220-240V-1ph-50Hz		27300	2.15	5.70	3.72		30700	2.28	6.04	3.95						3			mm	mm	80	kg 92	11811	1101	4
CMV-V100W/R1	220-240V-1ph-50Hz	1000		2.68	7.10	- and the second	11.5		2.90	7.69	3.93						3	45~56	52~63	1145×1120×475	1054×994×399	80	92			5
CMV-V125W/R1	220-240V-1ph-50Hz			3.38	8.96	3.69		47000	3.65	9.68	3.83						3.1	-			-	89	100			6
MV-V125W/ZR1	380-415V-3ph-50Hz			3.38	5.24	3.69	1.0	47000	3.66	5.67	3.83						3.1	-				93	104			6
CMV-V140W/R1	220-240V-1ph-50Hz	1.00	1.1.1.1.1.1	3.96	10.50			54000	4.3	CONTRACT.	1.15.000						3.45					89		Φ15.9	Φ9.53	7
CMV-V140W/ZR1	380-415V-3ph-50Hz	-		3.98	6.17	1.41.6.00	1.052	54000	4.3	6.67	3.72	DC/Twin-		DC/fan	2	R410a	3.45	45~58	52~65	964×1445×402	900×1328×400	93	104			7
CMV-V160W/R1	220-240V-1ph-50Hz		1	4.57	12.11			61000	5.13	10000	3.61	rotary		motor			42	1000				96	107			8
CMV-V160W/ZR1	380-415V-3ph-50Hz			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	3,47	20	63000	5.62	8.71	3.56						42	r				100	111	Φ19.1	Ø9.53	9
CMV-VH224W/ZR1	380-415V-3ph-50Hz			6.74	10.5	3.32	25	85300	5.85	9.9	4.27	1					6.1	45~58	52~65			145	165			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		'	145	165	Φ22.2	Φ9.53	12
MV-VH280W/ZR1	380-415V-3ph-50Hz	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	1120×1549×528	176	196			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	DC/Scroll					8	48~62	57~68			176	196	Φ25.4	Φ12.7	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	22720	1017-011			80	92			4
MV-V100W/XR1	220-240V-1ph-60Hz	10	34000	2.68	7.10	3.70	11.5	39000	2.90	7.69	3.93						3	45~56	52~63	1145×1120×475	1054×994×399	80	92			5
CMV-V125W/XR1	220-240V-1ph-60Hz	12.5	42000	3.38	8.96	3.69	14	47000	3.65	9.68	3.83	1					3.1					89	100			6
CMV-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	Φ15.9	Φ9.53	7
MV-V140W/YR1	380-415V-3ph-60Hz	14	47000	3.98	6.17	3.52	16	54000	4.3	6.67	3.72	DC/Twin-		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	1	motor	÷.	199100	4.2					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						4.2					100	111	Φ19.1	Ø9.53	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	165			10
MV-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	4070 4700	1100 1510 100	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
MV-VH335W/YR1	380-415V-3ph-60Hz	33.5	114200	9.45	14.9	3.54	37.5 1	127900	9	14,2	4.17	DC/Scrol					8	48~62	57~68			176	196	Φ25.4	Ф12.7	18

1. The cooling conditions: indeor 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 (86°F), 15°C WB (40.8°F) outdoor temp.: 7°C DB (86.28°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

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	۲				٠		•
2.8	۲				•		•
3.6	•				•		•
4.5	۲	۲			۲	٠	•
5.6	۲	۲	•			•	•
7.1	•	•	•	•		•	•
8.0		•	•			•	
9.0				•		•	
10.0			•	•		•	
11.2			۲	۲		۲	
12.0						•	
12.5			٠	•		•	
14.0			۲	•		۲	
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)							
2.2	•	٠		۲			
2.8	•	•		•			
3.6	•	•		•			
4.5	•	•	•	۲			
5.6	•	۲	•	•			
7.1	•	٠	•	•	•	٠	
8.0	•		•		٠	•	
9.0			•		۲	•	
10.0					•	•	
11.2			•				
12.0					•	•	
14.0			•				•
15.0					۲		
16.0			•				
20.0						•	
22.4							•
25.0						•	
28.0						•	•
45.0						•	•
56.0						•	•



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, e	easv to ins	tall			
	250mm height, i	t is specially suitable	Suspended ceiling		250 260 mm
Built-in wit	and the second	and the second of the second	hand in		
1200mm, flexible fo		nage pump,Pumping esign.	Suspended ce	aling	1200mr

0

.

Specification

			Ca	pacity		Motor	Air	flow	Sound	-		Dimensior	(W×H×D)		Body	Weight	Co	nnecting	g pipe		
Model name	Power type	Co	oling	He	ating	input	2000	iic)w	Level	ESP	Packing	Body	Panel packing	acking Panel	Net	Gross	Gas	Liquid	Drain	Standard	
	Abc.	kVV	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	CON INCOME	
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														Φ6.35	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				controlle	
CMV-V56Q1/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	750	440	35~41		4470-005-000	1001-000-000	1000 70 500	1000 50 500	0400	2015.0	Φ12.7				
CMV-V71Q1/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.09	950	550	38~45	an A	1470×305×690) 1304×290×572	1390x70x560	1380x50x520	34/3.6	39/5.0	Φ15.9	Φ9.53			

Notes: 1. Power supply: 220–240V/1PH for 50Hz; 2. Coating 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.

GUANGDONG CHIGO HEATING & VENTILATION EQUIPMENT CO., LTD, HTTP://WWW.CHIGO-CAC.COM



		Controller											
Standard		Optional											
Wireless	Wireless	Wired	Centralized										
1			-										

2-way Cassette

4-way Cassette / Round-flow Cassette



Standard		Optional	
Vireless	Wireless	Wired	Centralized
888			



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

Tenne Second III			Ca	pacity		Motor	Aire	low	Sound	ESP Dimension (W×H×D)					Body	Weight	Cor	nnecting	pipe	
Model name	Power	Co	oling	He	ating	input	A	ROAA	Level	ESP	Packing	Packing Body		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	CCA 18 CAREA
CMV-V45Q2/HR1-B	50Hz	4.5	15.3	5.0	17															
CMV-V56Q2/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	800	470	470 36~42		1215×365×630) 1068×310×517	1235×70×655	1205×50×630	33/6.5	36/8.5	Φ12.7	Φ6.35		Remote
CMV-V71Q2/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.40		050						1115 50.000	40/7.5				OD Ф25	controller
CMV-V80Q2/HR1-B	50Hz	8.0	27.2	9.0	30.7	0.10	1120	650 40~46	40~46	- /	1455×365×630	1308×310×517 1475×70×6	1475×70×655	475×70×655 1445×50×630		47/10.0	Φ15.9	Φ9.53		

^c wer supply: 220-240V/IPH for 50Hz; oiling 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 und level: measured at a point if 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. e 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.



• Built-in with drainage pump

Built-in with low noise long life drainage pump, Pumping 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

Standard		Optional										
Wireless	Wireless	Wired	Centralized									
		Trends Inc.										
238	111	2222										
<u> </u>		1000-000 (* * * * * *	ol									

•	360° round panel is optional.
i head is n	Suspended ceiling
2	Suspended 230 260 mm

Specification

4-way Cassette Unit

			Cap	acity		Motor	7.484	flow	Sound	-		Dimen	sion (W×H×D)		Body	Weight	Co	nnecting	j pipe	
Model name	Power	Co	oling	He	ating	Motor input	AN	IIOW	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	controller
CMV-V56Q/HR1-C	50Hz	5.6	19.1	6.0	21.4	0.054	810	470	35-39						24	20	440.7	+0.05		
CMV-V56Q/HNR1-C	60Hz	5.0	19.1	6.3	21.4	0.004	010	410	00 00						24	30	Φ12.7	Φ6.35	OD Φ25	
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	1.1	24.2	0.0	21.2	0.000	4000	700	20.00						24	30				
CMV-V80Q/HR1-C	50Hz	8	27.2	8.8	30	0.093	1200	700	36~39						24	30	ľ			Remote
CMV-V80Q/HNR1-C	60Hz	0	21.2	0.0	30					1			1030×105×1030	050-50-050	24	30				
CMV-V90Q/HR1-C	50Hz	9	30.7	10.0	34.1					1.6			1030×103×1030	900-00-900	28.5	35	1	9 Φ9.53		
CMV-V90Q/HNR1-C	60Hz	9	30.1	10.0	34.1										20.0	35				
CMV-V100Q/HR1-C	50Hz	10	34.1	11.0	37.5	1									28.5	35	Ф15.9			
CMV-V100Q/HNR1-C	60Hz	10	04.1	11.0	51.5										20.0	55				
CMV-V112Q/HR1-C	50Hz	11.2	38.2	12.5	42.6	1									28.5	35				
CMV-V112Q/HNR1-C	60Hz	11.2	30.2	12.0	42.0										20.5	35				
CMV-V125Q/HR1-C	50Hz	12.5	42.6	14.0	47.7	0.16	1600	940	37~41		920x310x985	833×286×900			28.5	35	1			
CMV-V125Q/HNR1-C	60Hz	12.0	42.0	14.0	41.1	0.10		0.0			010 010 000	000 200 000			20.5	55				
CMV-V140Q/HR1-C	50Hz	14.0	47.7	15.0	51.1	1									28.5	35				
CMV-V140Q/HNR1-C	60Hz	14.0	41.1	13.0	51.1										20.0	35				
CMV-V160Q/HR1-C	50Hz	16.0	54.5	17.0	58	1									28.5	35	1			
CMV-V160Q/HNR1-C	60Hz	10.0	54,5	17.0	30										20.0	30				

4-way Cassette Unit (Compact type)

			Cap	acity		Motor	1.4.40		Sound	-		Dimension	n (W×H×D)		Body	Weight	Con	necting	pipe'	
Model name	Power	Co	oling	He	ating	input	Ar	flow	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-V22Q4/HR1-C	50Hz	0.0	75	0.5	0.5	0.000	447	000	00.04		1				17.5	25				
CMV-V22Q4/HNR1-C	60Hz	2.2	7.5	2.5	8.5	0.038	447	263	22~34						17.5	25	40.50			
CMV-V28Q4/HR1-C	50Hz	20	9.5	3.2	10.9	0.000	447	263	22~34						17.5	ne	Φ9.53			
CMV-V28Q4/HNR1-C	60Hz	2.8	9.5	3.2	10.9	0.038	447	203	22~34	- V	745-075-075	05000070505	750-05-750	050-00-050	1/.5	25		d6 35	OD 025	Remote
CMV-V36Q4/HR1-C	50Hz	3.6	12.2	4.0	13.6	0.040		202	27~38		003×207×303	750×95×750	650×30×650	175	OF.		\$0.50	00.420	controller	
CMV-V36Q4/HNR1-C	60Hz	3.0	12.2	4.0	13.0	0.040	515	303	21~30					17.5	25	Φ12.7				
CMV-V45Q4/HR1-C	50Hz	4.5	15.3	5.0	17	0.040	515	303	27~38						475	25	Ψ12.7			
CMV-V45Q4/HNR1-C	60Hz	4.5	15.5	5.0	11	0.040	515	303	21~30						17.5	25				

Round-flow Cassette

T			Cap	acity		Motor		-	Sound			Dimension	n (W×H×D)		Body	Weight	Con	necting	pipe	
Model name	Power	Co	oling	Hea	ating	input	Air	flow	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-V56QR/HR1	50Hz	5.6	19.1	6.3	21.4	0.09	860	500	32-39		1				24	30	Ø12.7	Ø6.5		1
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	1	1200	100	33~39						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	1222	1022221	07.44	1			1030×105×1030	950×50×950	28.5	35	0159	Ø9.52	Ø25	controller
CMV-V112QR/HR1	50Hz	11.2	38.2	12.5	42.6	1	1400	820	37-41		000-040-005	000.000.000			28.5	35	010.0	DO.OL		
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	1050	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;

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.

Floor standing unit



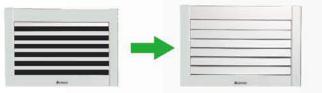
Features

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 .



Specification

Floor Standing Unit

			Cap	acity	1	Motor	Air flow	Sound	ليعير	Dimens	ion (W×H×D)	W	eight	Connect	ng pipe		1
Model name	Power type	Co	oling	He	ating	input	AIT NOW	Sound Level	ESP	Body	packing	Body	packing	Gas	Liquid	Drain	Standard
	dhe.	kW	kBtu/h	kW.	kBtu/h	kW	m³/h	dB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	
CMV-V45F/HR1	50Hz	4.5	15.3	5	17.0		920	48					22242		10000		
CMV-V56F/HR1	50Hz	5.6	19	6.3	21.4		920	40				38.5	49.5	Φ12.7	Φ6.35	Φ20	
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												
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	Φ9.53	Φ25	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.



Standard		Optional	
Wireless	Wireless	Wired	Centralized
333		2333 824	

• 3 dimensional air supply

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

Floor standing unit

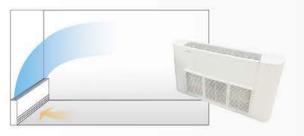


Features

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

	1.1		Cap	acity		Motor	Airflow	Sound	ESP	Dimens	sion (W×H×D)	W	leight	C	connecting pi	pe	
Model name	Power type	Co	oling	He	ating	input	(H/M/L)	Level	ESP	Body	packing	Net	Gross	Liquid	Gas	Drain	Standard
	-Mhe	kW	kBtu/h	kW	kBtu/h	W	m³/h	dB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	CONTRONC
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		Φ9.52		
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	-/-	1170×491×230	1270×570×300	27	30		Φ9.52	Φ20	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		Ψ9.52		
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				
CMV-V80TE/HR1	50Hz	8.0	27.2	9.0	30.7	124	1018/882/793	40/36/33	1	1720×491×230	1820×570×320	38	42	Φ9.53	Φ15.88		

Concealed Type

			Cap	acity		Motor	Airflow	Sound	ESP	Dimens	sion (W×H×D)	W	eight	6	onnecting pi	pe	
Model name	Power type	Co	oling	He	ating	input	(HAM/L)	Level	EaP	Body	packing	Net	Gross	Liquid	Gas	Drain	Standard controller
	Abe	kW	kBtu/h	kW	kBtu/h	W	m³/h	dB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	CONTROLINES
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	Φ6.35	_		
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		Φ9.52	Φ20	Wired controller
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		.Ψ9.5Z		
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				
CMV-V80TC/HR1	50Hz	8.0	27.2	9.0	30.7	67	1005/868/769	38/35/33		1330×600×230	1435×705×325	32	37	Φ9.53	Φ15.88		

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

Short Ceiling Concealed Ducted Unit



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.







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



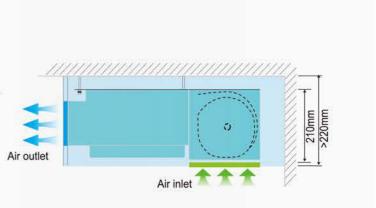
 High efficiency low noise motor, motor and support frame with rubber ring isolation, can absorb vibration and reduce noise.



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

			Cap	acity	Ĩ.	Motor		flow	Sound	FOR	Dim	ension (W×H	xD)		Body	Weight	Con	nectin	g pipe	40.000
Model name	Power type	Ce	oling	He	ating	input	AIF	now	Level	Ear	Packing	Body	Packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controlle
	-316-0	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	22	1.5	2.5	0.0	0.05		0000							10	10.0	40.50			
CMV-V28TA/HR1-C	50Hz	2.8	9.5	20	10.0	0.05	450	260	24~29						10	10.5	Φ9.53			
CMV-V28TA/HNR1-C	60Hz	2.0	9.5	3.2	10.9]		16	18.5				
CMV-V36TA/HR1-C	50Hz	3.6	12.2		13.6	0.07	550	224	25. 22		910×240×510	814×210×46/			16.5	19		Ф6.35		
CMV-V36TA/HNR1-C	60Hz	3.0	12.2	4	13.0	0.07	550	324	25~32	30			1	1	10.5	19			OD Ф25	Wired controller
CMV-V45TA/HR1-C	50Hz	4.5	15.3	5	17	0.00	620	200	20. 27						40.5	19	Φ12.7			
CMV-V45TA/HNR1-C	60Hz	4.5	10.3	5	17	0.08	620	300	32~37						16.5	19	Ψ12.7			
CMV-V56TA/HR1-C	50Hz	5.6	19.1	6.3	21.4	0.09	000	500	20.20						21	24	1			
CMV-V56TA/HNR1-C	60Hz	0.0	19.1	0.3	21.4	0.09	800	520	28~38		1110×240×510	1010×210×467			21	24				
CMV-V71TA/HR1-C	50Hz	74	04.0		07.0	0.42	1000	040	20.20		1010-040-010	1011-010-107			25.5	28.5	±15.0	0.50		
CMV-V71TA/HNR1-C	60Hz	7.1	24.2	8	27.2	0.11	1000	640	30~39		1310×240×510	1214×210×467			20.0	20.0	Ψ15.9	Φ9.53		

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.

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Medium Static Pressure Ducted Unit

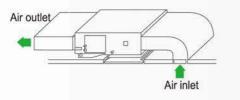


Features

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.



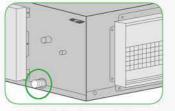


70Pa ESP, suitable for long distance air supply

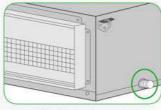
30Pa (can be set on site), suitable for low noise requirement rooms

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

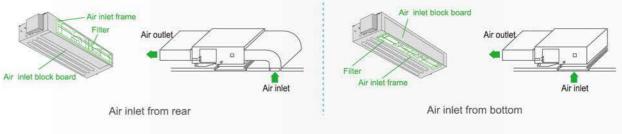
Whole unit low noise design, silent operation

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

			Cap	acity		Motor	Air	fow	Sound	ESD	D	imension (W×H×D)			Body	Weight	Con	necting	pipe	
Model name	Power	Co	oling	He	ating	input			Level	COP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard
	900	kW	kBtu/h	kW	kBtu/h	kW	m3/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	controller
CMV-V71TB/HR1-B	50Hz	7.1	24.2	8.0	27.2										33	37				
CMV-V71TB/HNR1-B	60Hz	9.1	24.2	0.0	21.2	0.30	1220	710	36~41		1255x325x720	1209×260×680								
CMV-V80TB/HR1-B	50Hz	8.0	27.2	9.0	30.7	0.30	1220	/ 10	30~41		120083208720	1209×200×000			33	37				
CMV-V80TB/HNR1-B	60Hz	0.0	21.2	5.0	30.7															
CMV-V90TB/HR1-B	50Hz	9.0	30.7	10.0	34.1		1850	1080	38~43				1		46	50				
CMV-V90TB/HNR1-B	60Hz	5.0	50.7	10.0	04.1		1000	1000	30~43	70							Φ15.9	do 53	OD Φ25	Wired
CMV-V100TB/HR1-B	50Hz	10.0	34.1	11.0	37.5					70				1	46	50	\$13.5	45.55	00 423	controller
CMV-V100TB/HNR1-B	60Hz	10.0	54.1	11.0	01.0	0.34					1490x325x720	1115-000-000								
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	0.0	15.0	-1.0			1170												
CMV-V150TB/HR1-B	50Hz	15.0	51.1	17.0	58		2000	11/0	40~44						46	50				
CMV-V150TB/HNR1-B	60Hz	13.0	01.1	17.0	30															

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.

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High Static Pressure Ducted Unit



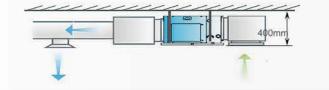
Features

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.

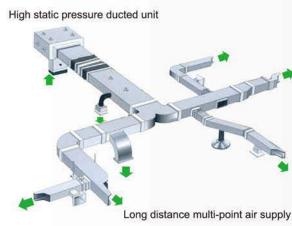


• Can be used with various diffusers

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



• High static pressure Big air flow with high static pressure, easy for large rooms duct design. Suitable for different shape of rooms. Oblong shape room Large room L shape room 20



Specification

			Cap	acity		Motor	AF	flow	Sound	-		imension (W×H×D)			Body	Weight	Cor	necting p	sipe	
Model name	Power	Co	oling	He	ating	input	AND	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	CONBONE
CMV-V71TH/HR1-B	50Hz												1	1						
CMV-V71TH/HNR1-B	60Hz	7.1	24.2	7.8	26.6										46	50	ļ			
CMV-V80TH/HR1-B	50Hz	0.0	07.0	0.0	00	0.04	4500	000	10.10		1490×325×720	4445-000-000			10					
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	207	10.0	244										10	50				
CMV-V90TH/HNR1-B	60Hz	9.0	30.7	10.0	34.1										46	50	Φ15.9	Φ9.53		
CMV-V100TH/HR1-B	50Hz	10.0		11.0	07.6										1440					
CMV-V100TH/HNR1-B	60Hz	10.0	34.1	11.0	37.5										47	51				
CMV-V120TH/HR1-B	50Hz	12.0	40.9	13.0	44.3	0.45	2300	1350	44~52	150	1245×445×655	1190×370×620	1	0	47	51			OD Φ25	Wired
CMV-V120TH/HNR1-B	60Hz	12.0	40.9	13.0	44.5	0.45	2300	1350	44~52	150	1245×445×655	1190^370^020	1.60	18	47	53			00 425	controll
CMV-V150TH/HR1-B	50Hz	15.0	51.1	17.0	58.0										47	51				
CMV-V150TH/HNR1-B	60Hz	10.0	-21.1	17.0	30.0										- 47	-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	15.0	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	d22.2	Φ12.7	OD 030	
CMV-V250TH/HNR1-B	60Hz	23.0	00.5	61.9	55.0	2.6	4200	2410	43-34		1010-000-070	1400-440-011			102	115	466.6	\$ 16.1	00 430	1
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	55.5	- 00.0	105.0	1.2		2300	40-50						102	113				
CMV-V450TH/HZR1-B	50Hz	45.0	153.5	50.0	170.6	1.6	6000	3520	60						222	260				
CMV-V450TH/HXR1-B	60Hz	40.0	100.0	00.0		1.0	0.00	5520	50	200	2267×840×1050	2165×676×916				200	m28.6	m15.0	OD @32	
CMV-V560TH/HZR1-B	50Hz	56.0	191.0	63.0	214.9	2.5	8000	4700	64	200	2201 ×040×1050	2100-070-910			222	260	₩20.0	\$10.9	00 432	
CMV-V560TH/HXR1-B	60Hz	00.0	151.0	0.0	E14.3	2.5	0000	4700	54							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. 4. The above data may be changed without notice for future improvement on quality and performance.

Wall Mounted Unit

				Controller	
		Standard		Optional	-11
		Wireless	Wireless	Wired	Centralized
Снар	3.0.0				
_			w m	2223 91110	
			-	<u>2222</u>	1
	84# panel		L		
ting for			-		
7# (optional)	107# (optional)	150# (optional) 155	# (optional)	156# (optional)	

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.

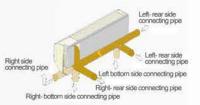
Flexible in installation

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

		12	Cap	acity		Motor	141	flow	Sound		D	imension (W×H×D)	-		Body	Weight	Con	necting	pipe	
Model name	Power	Co	oling	He	ating	input	Air	IW	Level	ESP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
	lype	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	Controller
CMV-V22G/HR1-B2	50Hz				0.5	0.000		000	01.00		000-077-000	000-000-040		1 7	10				1	1
CMV-V22G/HNR1-B2	60Hz	2.2	7.5	2.5	8.5	0.033	540	320	24~33		983×377×300	900×296×216			12	14	00.52			
CMV-V28G/HR1-B2	50Hz				100	0.000									10	1000	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	12.2	10	10.0	0.014		360			000.077.000				- 10	14				
CMV-V36G/HNR1-B2	60Hz	3.6	12.2	4.0	13.6	0.041	600	360	24~33	8	983×377×300	900×296×216	1.20	3	12	14		Φ6.35	OD Ф20	Remote
CMV-V45G/HR1-B2	50Hz	100	100	-			000			1			1.1	1		14	Φ12.7		00 \$20	controller
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		10.4	0.0		0.050	000	100	05.40		1145×392×318	4000-004-004			10	- 10				
CMV-V56G/HNR1-B2	60Hz	5.6	19.1	6.2	21.1	0.052	920	540	35-43		1143×392×318	1080×304×221			16	18				
CMV-V71G/HR1-B2	50Hz	- 442	040	7.8	000	0.050	920		05.40		4445 000 040	4000.004.004				18	A15.0	A0 50		
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	Φ15.9	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



Standard		Optional	
Wireless	Wireless	Wired	Centralized
		3222 122	

Features

Accessories

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

Suspended installation, saves valuable floor space

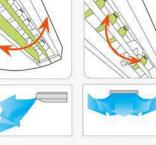
- The use of ark effect: need to take up valuable floor position.
- The use of a hanging type indoor machine effect: Due to the adoption of a suspended installation, without occupying the ground position, will be valuable floor space to save up to add a set of dining table.



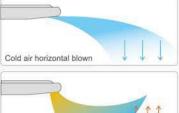
• Wide angle air supply



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



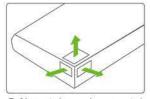
 3 dimensional air supply, wide air supply angle, easily supply to every corners.

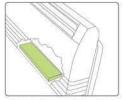




horizontal. In heating mode, warm air is blown from vertical.

Easy for installation





Refrigerant pipe can be connected from 3 directions.

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

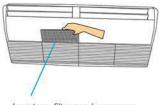
Specification

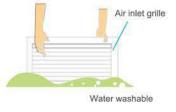
		1	Cap	acity		Motor	A5	flow	Sound			imension (W×H×D)			Body	Weight	Con	necting p	pipe	12
Model name	Power	Co	oling	He	ating	input	<i>?</i> !!	NOW	Level	ESP	Packing	Body	packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
	type	kW	kBtu/h	kW	kBtu/h	kW	m³/h	CFM	dB(A)	Pa	mm –	mm	mm	mm	kg	kg	mm	mm	mm	CONTRONET
CMV-V45LD/HR1-B	50Hz		100		47	1			07.10		() () () () () () () () () ()				-	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 @20	
CMV-V56LD/HR1-B	50Hz	5.6	19.1	0.0	21.4	0.00	300	300	07 40							42	Ψ12./	Ψ0.33	00 \$20	2
CMV-V56LD/HNR1-B	60Hz	0.0	19.1	6.3	21.4				37-46						36	42				
CMV-V71LD/HR1-B	50Hz	-	040		070				39~48		1325×770×330	1245×680×240			36	42				
CMV-V71LD/HNR1-B	60Hz	7.1	24.2	8.0	27.2	0.15	4000	700	39~48		1000 1000000	100.00 0000.00.00			30	42				
CMV-V80LD/HR1-B	50Hz	8.0	07.0	0.0		0.15	1300	760	39~48					1	36	10	1			
CMV-V80LD/HNR1-B	60Hz	8.0	27.2	8.8	30				39~48						30	42				Remote
CMV-V90LD/HR1-B	50Hz	9.0	00.7	100		0.075	4000	000	41.70	1			1	1		uac:	1			controlle
CMV-V90LD/HNR1-B	60Hz	9.0	30.7	10.0	34.1	0.375	1500	880	44~50						38	44	A1E 0	00.52	00 405	
CMV-V112LD/HR1-B	50Hz		38.2	12.5	10.0				15.60						144		Φ15.9	Φ9.55	OD Ф25	÷
CMV-V112LD/HNR1-B	60Hz	11.2	38.Z	12.5	42.6	0.26		1000	45-52						51	58				
CMV-V140LD/HR1-B	50Hz		199	40		0.26	2300	1350	15 50		1750×770×330	1670×680×240				50	1			
CMV-V140LD/HNR1-B	60Hz	14.0	47.7	15	51.1				45~52		110041104000	10/0×080×240			51	58				
CMV-V160LD/HR1-B	50Hz						0000	1000	15 50							-				
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

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







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

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

Fresh Air Processor



Standard		Optional	
Wired	Wired	Wireless	Centralized
			in the second
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Acres 1		1.00
22222	4 41 5 0	585	

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.

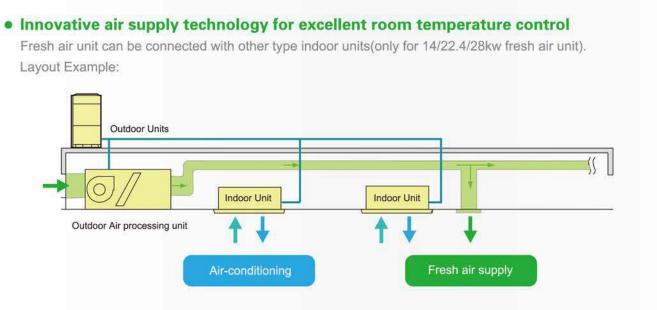
100% Fresh air processing unit

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.

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 14	flow	Sound	-	D	imension (W×H×D)			Body	Weight	Cor	necting p	ripe	
Model name	Power	Co	oling	He	ating	input	AI	BOW.	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-V140TF/HR1-B	50Hz	14.0	47.7	9.0	30.7	0.45	1400	820	10.10	2000	4045-445-055	4400-070-000			47	51	Φ15.9	Φ9.53		
CMV-V140TF/HNR1-B	60Hz	14.0	97.7	9.0	30.7	0,45	1400	820	42-48	220	1245×445×655	1190×370×620			141	01	\$15.5	\$3.55		
CMV-V224TF/HR1-B	50Hz	22.4	70.4	10.0	CA.F.	10	2000	4470	AE 50	000	4540+680+870	4405-440-044			400				OD 025	
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	Φ22.2	Φ12.7	00 425	
CMV-V280TF/HR1-B	50Hz	28.0	95.5	20.0	68.2	1.2	2800	1640	45~52	220	1510×580×870	1465×448×811	1		100	1000	WLLL	W12.1		Wired
CMV-V280TF/HNR1-B	60Hz	20.0	90.5	20.0	00.2	1.2	2000	1040	40~02	220	1010×560×670	1400^440^011	1.1	1	100	111				controlle
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	155.5	31.4	107.1	1.0	4000	3320	00	300	2207 4040 4 1050	2103~070~910			111	200	Φ28.6	Φ15.9	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	1		222	260	- a a a a			
CMV-V560TF/HXR1-B	60Hz	30.0	101.0	35.0	100.0	4.0		4/00	UZ	500	2201-040-1030	2100-010-910			ell	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 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
 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.
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Heat Recovery Ventilator



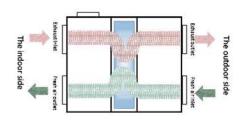
Features

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 efficient	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.



CONTROLLERS AND SOFTWARE

A TATA STA

Wireless Remote Controllers

Wireless remote controllers

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





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

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.



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







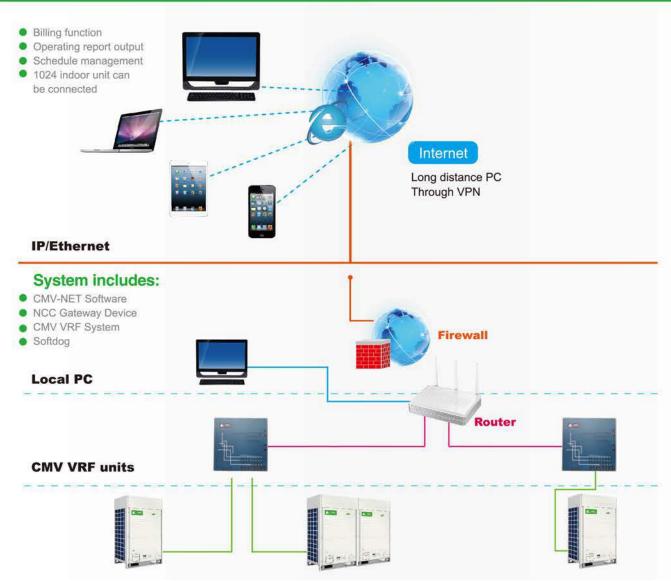


Touch screen centralized controller

- Build in WIFI modular
- Build in Modbus protocol
- Weekly schedule management
- Operation parameter equiry
- User friendly UI design

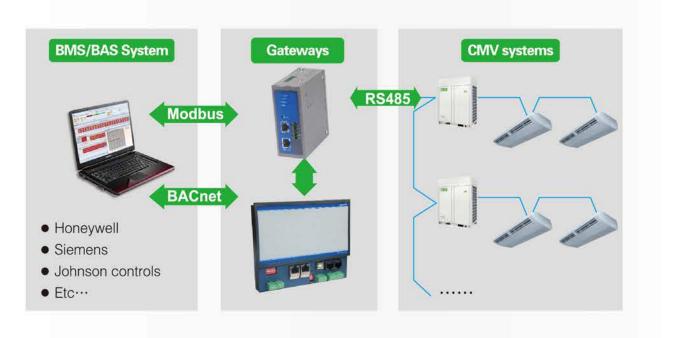


CMV–NET Control Software



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

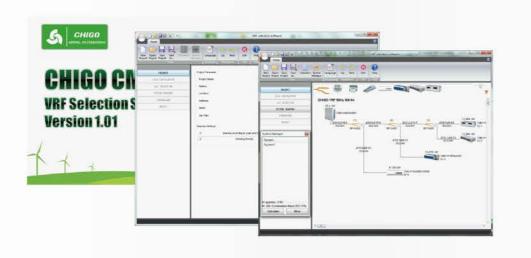


PROJECTS



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

VRF Selection Software Pro





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

PROJECTS



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



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



Meezan Bank, Karachi Cooling capacity 1350KW; with CMV-DC inverter VRF system.



PROJECTS

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