

SUPER KOOL

DC INVERTER VRF SYSTEM CAC Catalogue



SUPER KOOL

SOCIETE CASA FROID

39 RUE SSLMASSA BELVEDERE
20300 CASABLANCA MAROC

+212 661 141 984

casafroid@menara.ma

Note

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

Provide You With Fresh Air

V.SQRQ



2002
Develop intelligent VRF system, enter VRF market.



2004
Successfully developed intelligent inverter VRF system.



2009
Upgrade performance, launch more stable, energy saving, and more comfortable super DC inverter module.



2011
Launch new CMV system adopt the industry fourth generation core technology, both process and quality upgrade.



2012
Upgraded EER, new launched CMV. Was selected as the government procurement designated brands.

VRF Development History



2019
Launched New generation CHV-Pro VRF series.



2018
Launched CMV-X* Full DC inverter EVI VRF system.



2017
CMV-X got EUROVENT certification in 2017. Become 2018 Russia World Cup HVAC equipment supplier.



2016
Launched CMV-R heat recovery VRF system.



2015
New CMV-C series launched with high efficiency and excellent performance.



2013
Full DC inverter CMV-X was successful developed; all compressors and fan motors adopt DC inverter technology, top high energy saving and comfort.



How To Read The Model Name



Outdoor unit

CMV - V 280 W / Z R1 - B

CMV/CHV-GCHV VRF system
Inverter code
V: Inverter D: Full DC Inverter
VH: Side discharge outdoor unit
VT: T3 Inverter
R: Heat Recovery DC Inverter

Capacity(*100W)

Design code B: 2nd generation
Refrigerant type R1: R410a
Power supply
Z: 380-415V/3PH/50Hz
Y: 380-415V/3PH/60Hz
X: 208-230V/3PH/60Hz
Outdoor unit



Indoor unit

CMV - V 125 TB / H N R1

CMV/CHV-GCHV VRF system
Motor code
V: AC Fan Motor
D: DC Fan Motor

Capacity(*100W)

Refrigerant type R1: R410a
Power supply
Omit: 220-240V/1PH/50Hz
N: 220-240V/1PH/60Hz
Function code H: Heat pump
Indoor unit code
Q: 4-way cassette
TH: High ESP ducted
LD: Floor ceiling
G: Wall-mounted
TA: Low ESP ducted

CHV Pro

380~415V/3N/50Hz&60Hz
New generation Full DC
Inverter EVI VRF



8/10/12HP



14/16HP



18/20HP



22HP



24HP

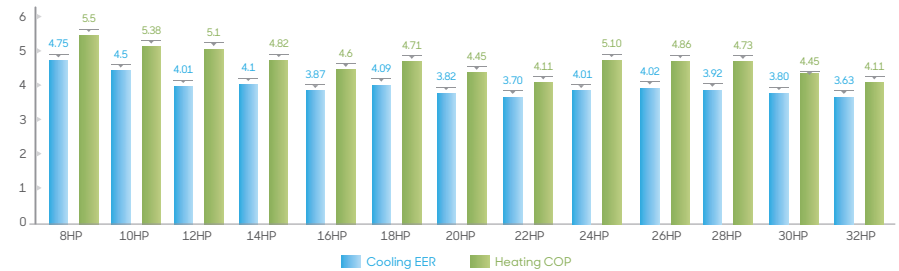


26/28/30/32HP

13 Basic Modules

Capacity	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
	25.2kW	28kW	33.5kW	40kW	45kW	50kW	56kW	61.5kW	67kW	73kW	78.5kW	85kW	90kW
Compressor	DC	DC	DC	DC	DC	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+DC	DC+DC	DC+DC	DC+DC

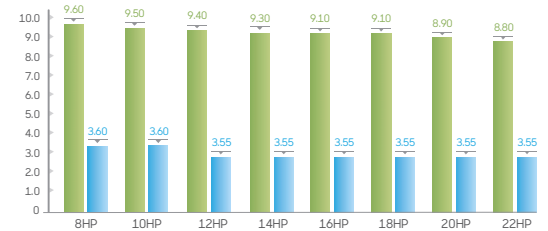
EER&COP



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 Air-Conditioning, Heating and Refrigeration Institute (AHRI). It is most commonly used to describe the performance of an 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.



*Note: Due to space limited, here just list IPLV from 8HP-22HP Units.

• National Standard (GB 21454-2008) • CHV Pro

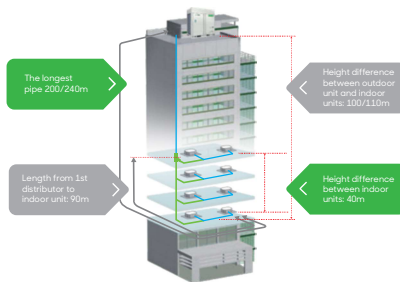
Combination Table

HP	Cooling Cap. (KW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
8	25.2	●												
10	28		●											
12	33.5			●										
14	40				●									
16	45					●								
18	50						●							
20	56							●						
22	61.5								●					
24	67									●				
26	73										●			
28	78											●		
30	83.5												●	
32	89.5													●
34	95					●								
36	101						●							
38	106.5							●						
40	111.5								●					
42	117.5									●				
44	123										●			
46	128.5											●		
48	134.5												●	
50	140													●
52	145													
54	151													
56	156.5													
58	163													
60	168													
62	173													
64	179													
66	184.5													
68	190													
70	196													
72	201.5													
74	206.5													
76	212.5													
78	218													
80	224.5													
82	229.5													
84	234.5													
86	240.5													
88	246													

*Note:Single modules can be freely combined to become a larger unit.Recommended maximum capacity of single system is 96HP,table above listed combination to 88HP for your reference only.

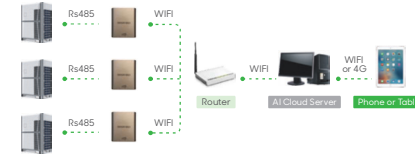
Long Piping & Height Difference

The total pipe length	1000 m
The longest pipe length	200 /240m
Height difference	Outdoor unit above <100m Outdoor unit below <110m
Height difference between indoor units	40m
Length from first indoor distributor to last indoor unit	90 m
Communication wire length	can be up to 1000m.



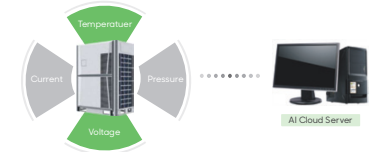
Features

Long Distance Remote Control
Long distance remote control by phone or tablet.



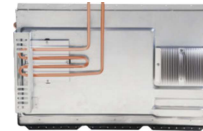
Malfunction Forecasting

- Thanks to the AI cloud server, malfunction can be forecasted when system running parameter is abnormal.
- Technician can be sent to site to check the system before it stops.



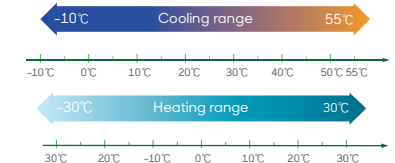
Refrigerant Cooling Design

We use refrigerant to cool down inverter modular board to keep it in a safe condition even when outdoor temperature is up to 55°C.



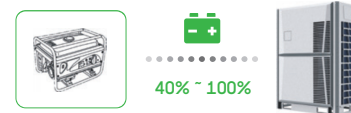
Wide Outdoor Operation Range

- Due to EVI technology, CHV PRO heating performance increased by 35% compare to conventional VRF system.
- Due to EVI technology, CHV PRO still has 85% of rated capacity even in -15°C.



Power Saving Mode

In the case of power shortage, CHV PRO can run power saving mode to ease generator's pressure.



Refrigerant Status Detection

- Built-in with smart refrigerant auto check function, which can give suggestion about refrigerant status.
- Different code means different refrigerant status:



- 4: Extremely insufficient
- 12: Insufficient
- 11: Slightly insufficient
- 0: Normal
- 1: Slightly excess
- 2: Overmuch