



# R410A CMV-DC INVERTER VRF SYSTEM



More than engineering we are about  
**innovative** partnerships



# VRF System - CMV-X

## Units Combination, Capacity Up to 72-HP

Cool Point VRF Systems have highest efficiency in the market and are customized specially for the Pakistan (T3) environment. VRF Systems have full DC inverter multiple compressors. This gives maximum energy saving and long term reliable operation.



8-HP ~ 18-HP



20-HP ~ 32-HP



34-HP ~ 48-HP



50-HP ~ 72-HP



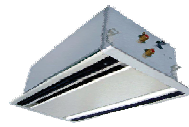
4-Way Cassette



Universal Unit



Wall Mounted



1 / 2-Way Cassette



High Static Ducted FCU

## Combination Table

Cooling Capacity								
Cooling Capacity		Cooling Capacity						Max. Connected Indoor Unit Quantity
HP	KW / TR	8-HP	10-HP	12-HP	14-HP	16-HP	18-HP	
8	25.2 / 7.1	●						13
10	28 / 7.9		●					16
12	33.5 / 9.5			●				16
14	40 / 11.3				●			20
16	45 / 12.7					●		20
18	50 / 14.3						●	20
20	56 / 15.9		●●					24
22	61.5 / 17.4		●	●				24
24	68 / 19.3		●		●			28
26	73 / 20.7		●			●		28
28	78.5 / 22.3			●		●		28
30	85 / 24.1				●	●		32
32	90 / 25.5					●●		32
34	95 / 27.2					●	●	36
36	100 / 28.7						●●	36
38	106.5 / 30.2		●	●		●		36
40	113 / 32.1		●		●	●		42
42	118 / 33.5		●			●●		42
44	123.5 / 35.1			●		●●		42
46	130 / 36.9				●	●●		48
48	135 / 38.3					●●●		48
50	140 / 40.7					●●	●	54
52	145 / 41.5					●	●●	54
54	150 / 43.0						●●●	54
56	156 / 44.9		●●				●●	58
58	163 / 46.3		●			●●●		58
60	168.5 / 47.9			●		●●●		58
62	175 / 49.7				●	●●●		64
64	180 / 51.1					●●●●		64
66	185 / 52.1					●●●	●	64
68	190 / 54.0					●●	●●	64
70	195 / 55.4					●	●●●	64
72	200 / 56.8						●●●●	64

## Core Technology Make High Efficiency

### Brushless DC Motor

- High Efficiency
- Low Noise

### 180 Sine Wave Control

- High precision rotor Speed Control

### Stepless Control

- On-demand output, high efficiency & energy saving

### CCT Inner-grooved Tube

- Excellent heat-exchanging efficiency



### DC Inverter Compressors

- High Pressure Type (T3)
- Asymmetric Scroll Design
- Neodymium Permanent
- Magnet Rotor

### 2-in-1 Refrigerant Flow Path

- Increase the liquid refrigerant Volume Proportion

### Supercooling Design

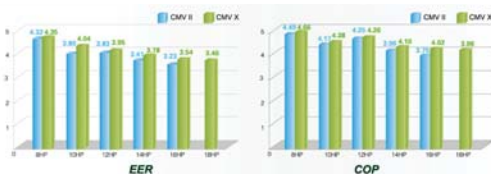
- Enhance the supercool of refrigerant to increase systems efficiency

### Cross Flow Fins

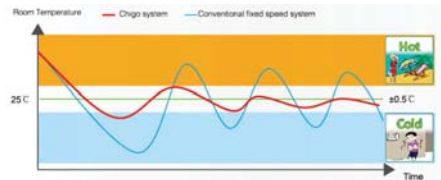
- Reduce air resistance
- Frosting improved

## Benefits for Users

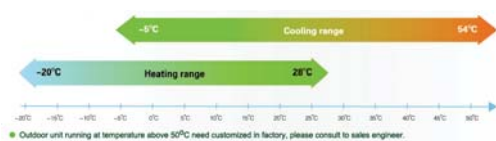
### Excellent in EER and COP



### Outstanding Comfort Ability



### Wide Operation Range



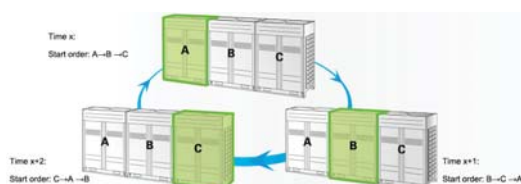
### The PHE Economizer



### 3-Stage backup function

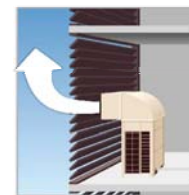


### All outdoor Units Cycle Operation

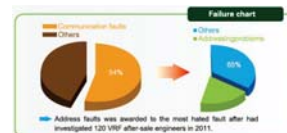


## Benefits for Installer

### Adjustable Outdoor Fan External Static Pressure



### Automatic Addressing



### LED Display on the PCB

### Refrigerant Recycle Program



### Service Window



### 6-Stage Oil Control



### 3-Phase Power Protector





# Mini VRF Systems

Cool Point Mini VRF Systems Suitable for the application where multiple indoor units of different types / capacities can be connected with single outdoor condensing unit. Mini VRF System is suitable for following applications and can gives 45% energy saving in compression with conventional split air conditioning units.

- House & Offices
- Semi Commercial Buildings
- Banks / Restaurants

- Retail Outlets & Shops
- Apartments / Hotels
- Schools & Universities



Model name		CMV-V100W/R1 CMV-V100W/ZR1	CMV-V125W/R1 CMV-V125W/ZR1	CMV-V140W/R1 CMV-V140W/ZR1	CMV-V160W/R1 CMV-V160W/ZR1
Power supply		380V-415V/3PH/50HZ ; 220V-240V/1PH/50HZ			
Cooling	Capacity	10KW	12.5KW	14KW	16KW
	Input	2.69KW	3.38KW	3.98KW	4.58KW
Heating	Capacity	11.5KW	14KW	16KW	18.5KW
	Input	2.91KW	3.66KW	4.3KW	5.13KW
Size W*H*D mm		900*1328*345			
Noise level dB(A)		≈ 58			
Max connected indoor unit quantity		6	6	7	8

## DC Inverter Light Commercial

Capacity(Btu/h)	18000	24,000	36,000	48,000	60,000
4-way Cassette Unit					
Floor-ceiling Unit					
Low ESP Ducted Unit					
Medium ESP Ducted Unit					
High ESP Ducted Unit					
Outdoor Unit					

## Light Commercial AC Units

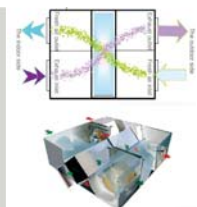
Capacity(Btu/h)	9,000	12,000	18,000	24,000	36,000	48,000	60,000	70,000	96,000
Compact 4-way Cassette Unit									
4-way Cassette Unit									
Floor-ceiling Unit									
Low ESP Ducted Unit									
Medium ESP Ducted Unit									
High ESP Ducted Unit									
Floor-standing Unit									
96K Btu/h High ESP Ducted Unit									
Outdoor Unit									

## Multi Split AC Units

Capacity(Btu/h)	7,000	9,000	12,000	14,000	18,000	21,000	27,000
Wall-mounted Panel code:84#							
Wall-mounted Panel code:87#							
Wall-mounted Panel code:107#							
Outdoor Unit (1 drives 2)							
Outdoor Unit (1 drives 3)							

## Heat Recovery Ventilator

200 m³/h to 10000 m³/h



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