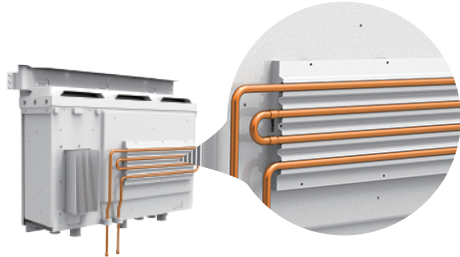


High Reliability

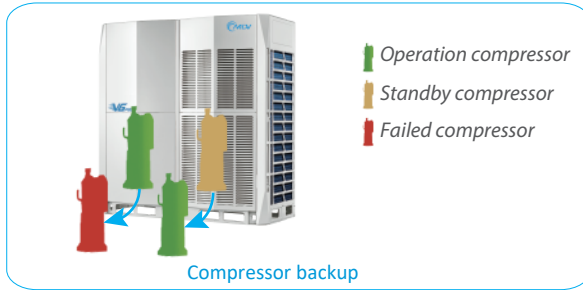
Refrigerant Cooling PCB

The V6 Pro VRF uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8 degrees, guaranteeing the stable and safe running of the control system.



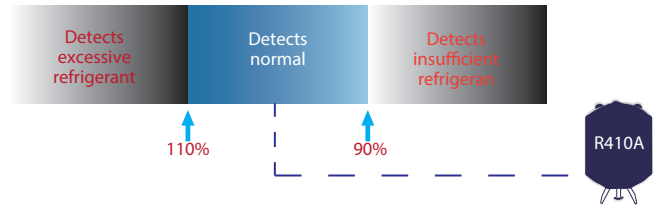
Backup Operation

In one unit with two compressors, if one compressor is failed, the other compressor can be backup instead of the failed one to maintain up to 4 days interim capacity, allowing time for maintenance or repair while comfort remains guaranteed.



Real-time Refrigerant Amount Monitoring

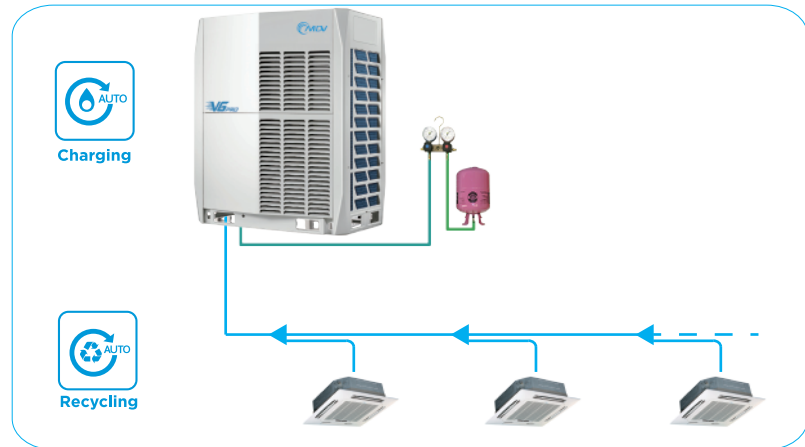
The temperature and pressure of refrigerant can be real-time monitored by the outdoor unit. When the level of refrigerant is too low or too high, this can cause damage to the unit and poor performance. V6 Pro outdoor unit can detect excessive or insufficient amounts of refrigerant, to ensure consistent performance.



Automatic Charging/Recycling Function*

Automatic refrigerant charging and recycling function makes the installation and service more easy and high efficiency.

**This function needs to be customized.*



Specifications

Capacity	8HP	10HP	12HP	14HP	16HP
Model name	MV6-252WV2GN1-AU	MV6-280WV2GN1-AU	MV6-335WV2GN1-AU	MV6-400WV2GN1-AU	MV6-450WV2GN1-AU
Cooling capacity (kW)	25.2	28.0	33.5	40.0	45.0
Heating capacity (kW)	27.0	31.5	37.5	45.0	50.0
Total capacity of connectable IDUs	50-130% of outdoor unit capacity				
Max. quantity of connectable IDUs	13	16	19	23	26
Compressor type	DC inverter				
Compressor quantity	1				
Fan motor type	DC				
Fan motor quantity	1				
Liquid pipe (mm)	Φ12.7		Φ15.9	Φ19.1	
Gas pipe (mm)	Φ25.4		Φ28.6	Φ31.8	
Dimensions (WxHxD)(mm)	990x1635x790		990x1635x825	1340x1635x825	
Refrigerant	R410A				
Operating temperature range	Cooling: -5~54℃; Heating: -25~24℃				

Capacity	18HP	20HP	22HP	24HP	26HP
Model name	MV6-504WV2GN1-AU	MV6-560WV2GN1-AU	MV6-615WV2GN1-AU	MV6-680WV2GN1-AU	MV6-735WV2GN1-AU
Cooling capacity (kW)	50.4	56.0	61.5	68.0	73.5
Heating capacity (kW)	56.5	63.0	69.0	75.0	81.5
Total capacity of connectable IDUs	50-130% of outdoor unit capacity				
Max. quantity of connectable IDUs	29	33	36	39	43
Compressor type	DC inverter				
Compressor quantity	1				2
Fan motor type	DC				
Fan motor quantity	2				
Liquid pipe (mm)	Φ19.1				Φ22.2
Gas pipe (mm)	Φ31.8				Φ31.8
Dimensions (WxHxD)(mm)	1340x1635x790				1730x1830x825
Refrigerant	R410A				
Operating temperature range	Cooling: -5~-54°C; Heating: -25~24°C				

Capacity	28HP	30HP	32HP	34HP	36HP
Model name	MV6-785WV2GN1-AU	MV6-850WV2GN1-AU	MV6-900WV2GN1-AU	MV6-952WV2GN1-AU	MV6-1010WV2GN1-AU
Cooling capacity (kW)	78.5	85.0	90.0	95.2	101.0
Heating capacity (kW)	87.5	95.0	100.0	106.0	112.0
Total capacity of connectable IDUs	50-130% of outdoor unit capacity				
Max. quantity of connectable IDUs	46	50	53	56	59
Compressor type	DC inverter				
Compressor quantity	2	2	2	2	2
Fan motor type	DC				
Fan motor quantity	2				
Liquid pipe (mm)	Φ22.2	Φ22.2		Φ22.2	
Gas pipe (mm)	Φ31.8	Φ38.1		Φ42.2	
Dimensions (WxHxD)(mm)	1730x1830x825				
Refrigerant	R410A				
Operating temperature range	Cooling: -5~54℃; Heating: -25~24℃				

Notes:

Capacities are based on the following conditions:

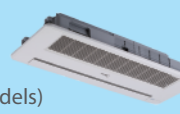
1. Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Interconnecting piping length is 7.5m, level difference is zero.
 2. Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB; Interconnecting piping length is 7.5m, level difference is zero.
- Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

Indoor Units Lineup

Cassette Type

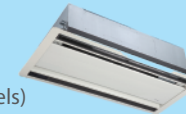
One-way Cassette

Capacity range:
1.8/2.2/2.8/3.6/4.5/5.6/7.1kW (7 models)



Two-way Cassette

Capacity range:
2.2/2.8/3.6/4.5/5.6/7.1kW (6 models)



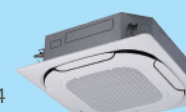
Compact Four-way Cassette

Capacity range:
1.7/2.2/2.8/3.6/4.5/5.2kW (6 models)



Four-way Cassette

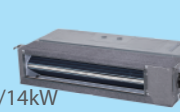
Capacity range:
2.8/3.6/4.5/5.6/7.1/8/9/10/11.2/14 kW (10 models)



Duct Type

Medium Static Pressure Duct

Capacity range:
1.7/2.2/2.8/3.6/4.5/5.6/7.1/8/9/11.2/14kW (11 models)



High Static Pressure Duct

Capacity range:
7.1/8/9/11.2/14/16/20/25/28/40/45/56kW (12 models)



Ceiling & Floor Type

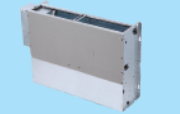
Ceiling / Floor Units

Capacity range:
3.6/4.5/5.6/7.1/8/9/11.2/14kW (8 models)



Floor Standing Units

Capacity range:
2.2/2.8/3.6/4.5/5.6/7.1/8kW (7 models)



Fresh Air Type

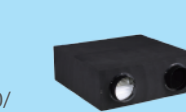
Fresh Air Processing Unit

Capacity range:
12.5/14/20/25/28kW (5 models)



Hear Recovery Ventilation

Capacity range:
200/300/400/500/800/1000/1500/2000m³/h (8 models)



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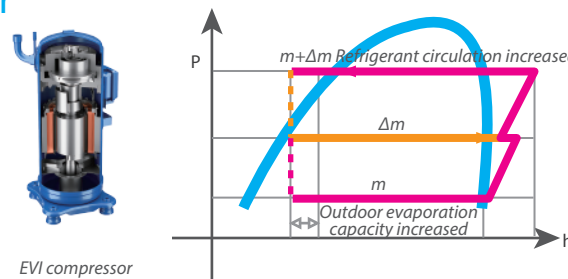
MDV V6 Pro VRF 8-108HP



HIGH EFFICIENCY

» EVI (Enhanced Vapor Injection) Compressor

Thanks to the vapor injection DC inverter compressor, the V6 Pro VRF can run heating mode stably down to -25°C, and the heating capacity can be improved greatly.

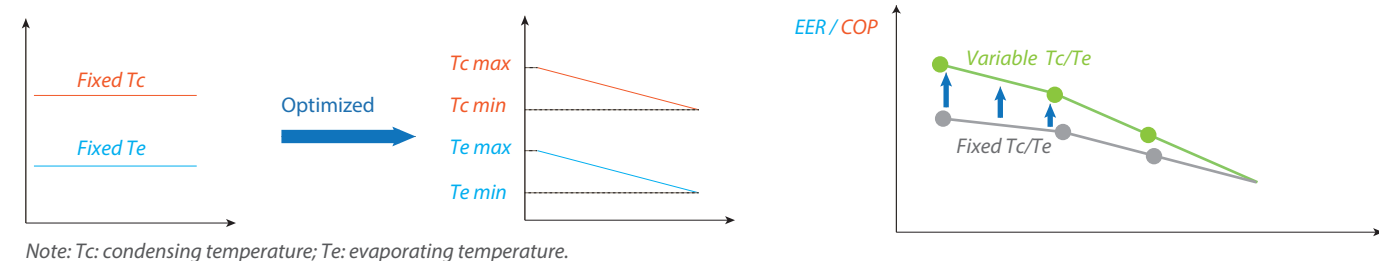


» Energy Management System (EMS)

With the Smart Automatic Refrigerant Temperature Control and 7 Levels of Energy Management, the V6 Pro can supply an advanced Energy Management System. The system can automatically maximize the comfort and energy efficiency and also supply 7 levels of capacity output to response to temporary electricity supply restrictions.

• Smart Automatic Refrigerant Temperature Control

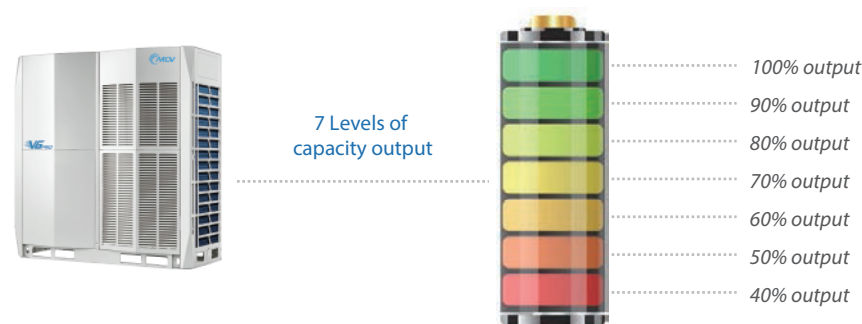
The evaporating temperature (in cooling) and condensing temperature (in heating) are automatically adjusted according to both indoor and outdoor temperature to maximize the comfort and energy efficiency. The capacity is controlled by the inverter compressor and variable refrigerant temperature in order to achieve the highest seasonal efficiency. The seasonal efficiency is increased by 30%.



Note: Tc: condensing temperature; Te: evaporating temperature.

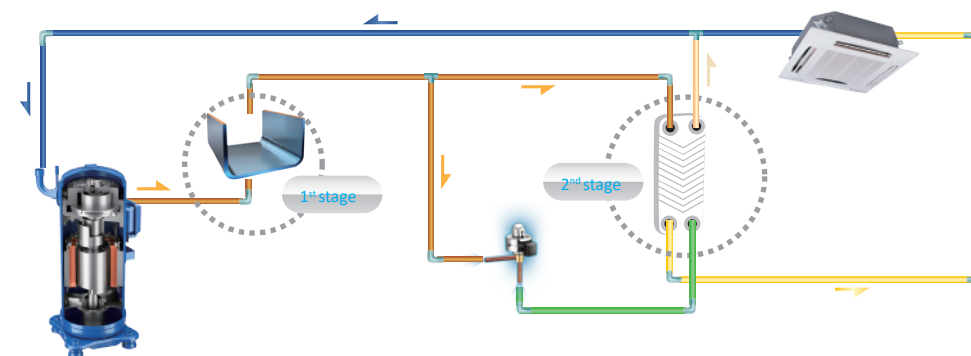
• 7 Levels of Energy Management

With the integration of EMS, for projects with temporary electricity supply restrictions, V6 Pro supports 7 Levels of Energy Management which can be set to output 40-100% capacity.



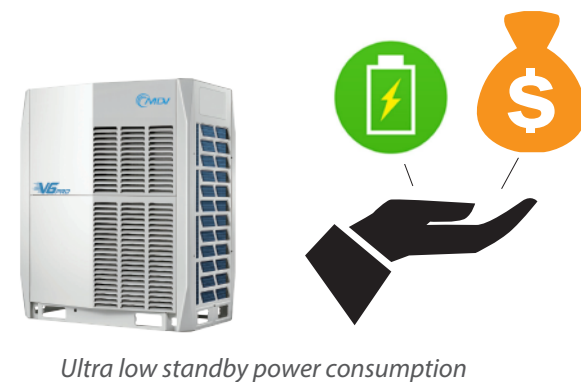
» PHE (Plate Heat Exchanger) Subcooling

Plate Heat Exchanger as a secondary intercooler to gain up to 18°C subcooling and improves 10% energy efficiency.



» Ultra Low Standby Power Consumption

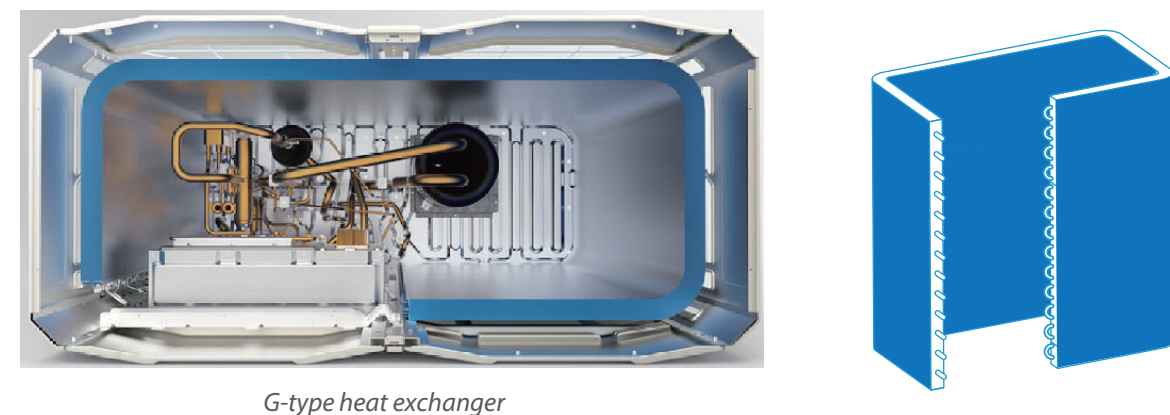
Compared to the standby power consumption of traditional VRF of about 30W, the V6 Pro VRF uses optimized control scheme to further reduce standby power consumption to about 5W. Taking 200,000 V6 Pro systems as an example, it is estimated that standby power consumption could save nearly 25 million kilowatt-hours a year.



Ultra low standby power consumption

» High Efficiency G-Type Heat Exchanger

From 12HP to 36HP, the V6 Pro use high efficiency G-type heat exchanger which has larger heat exchanger area than traditional C-type heat exchanger.

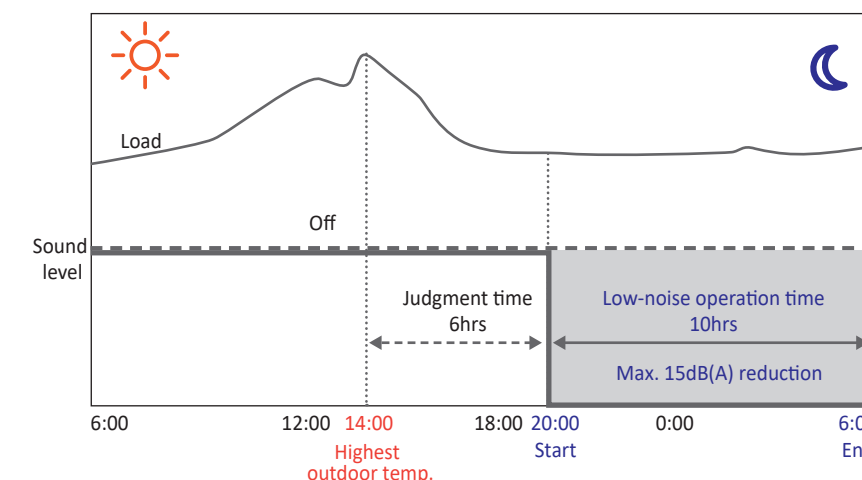


G-type heat exchanger

Enhanced Comfort

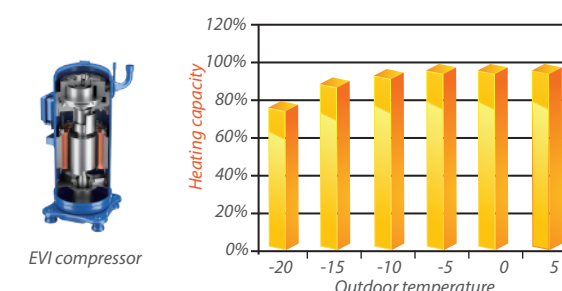
» Night Silent Mode

The night silent mode feature, which is easily configured on the outdoor unit's PCB, includes various scheduling options that can be used to reduce noise levels at times when low noise operation is required.



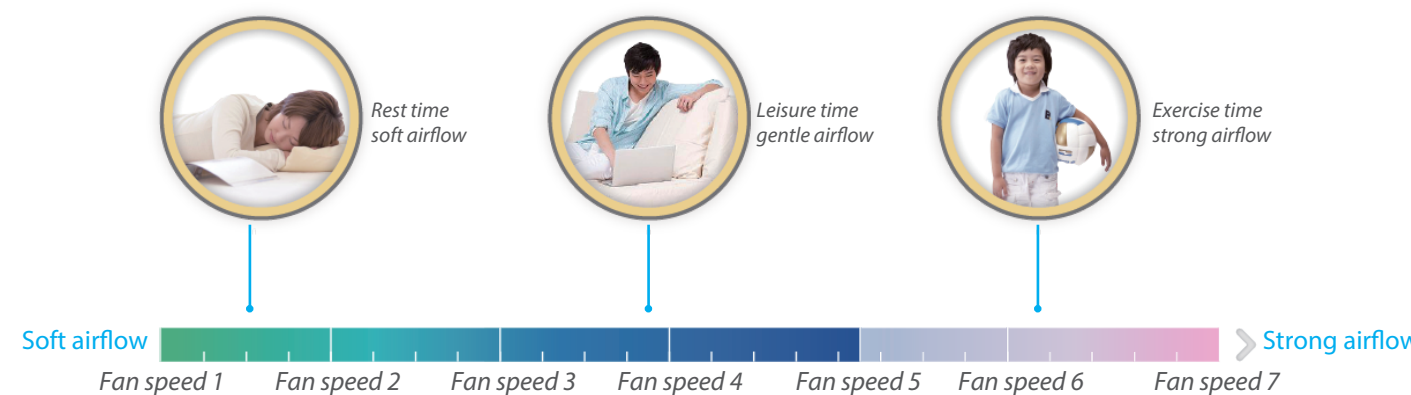
» Enhanced Heating Capacity

Thanks to the vapor injection DC inverter compressor, the V6 Pro VRF can run heating mode stably down to -25°C and the heating capacity can be improved greatly. The heating capacity is 100% of rated capacity at ambient temperatures as low as -5°C and 90% of rated capacity at -15°C.



» 7 Indoor Fan Speed Adjustment

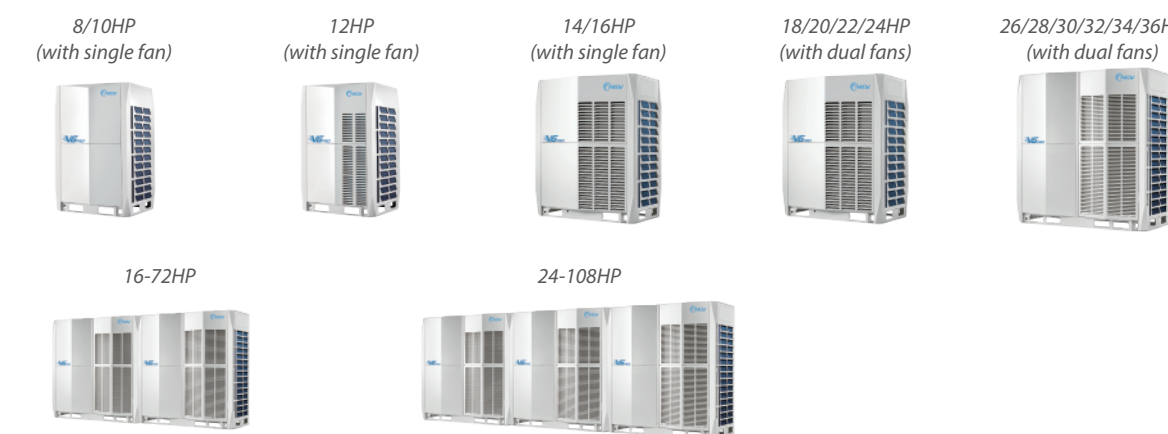
7 indoor fan speed adjustments design can maximum meet the needs of different conditions, providing control flexibility.



Wide Application Range

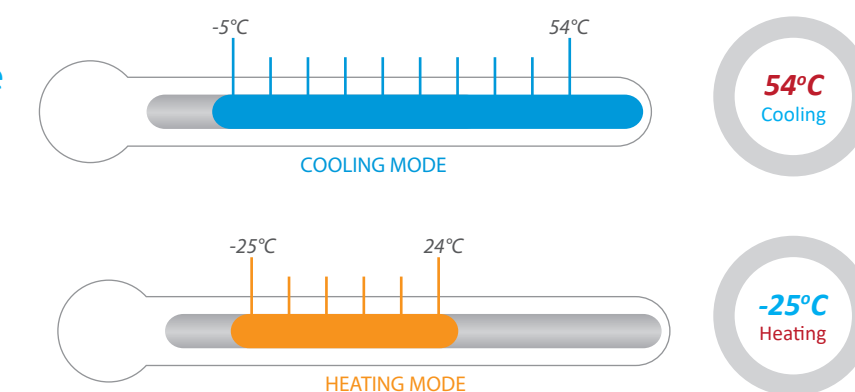
» Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 108HP, which is perfect for small to large buildings.



» Wide Operation Range

V6 Pro VRF can operate in a wide ambient temperature range. It can operate stably from -5°C up to 54°C in cooling mode and from -25°C to 24°C in heating mode.



» Long Piping Capability

- Total piping length: 1000m
- Longest piping length – actual (equivalent): 175m (200m)
- Longest piping length after first branch: 90m
- Level difference between IDUs and ODU – ODU up (down): 90m (110m)
- Level difference between IDUs: 30m

