

VRF V6 HEAT PUMP SERIES

WIDE APPLICATION RANGE

WIDE CAPACITY RANGE

Starting at 8HP, capacity increases in 2HP increments up to 32HP, which is the world's largest single VRF unit capacity.

8/10/12HP
(with single fan)



14/16/18HP
(with single fan)



20/22HP
(with dual fans)

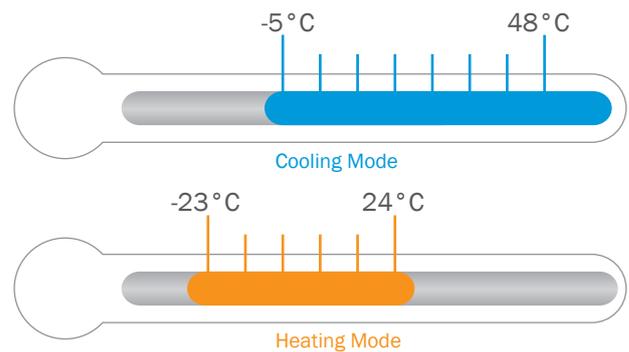


24/26/28/30/32HP
(with dual fans)



WIDE OPERATION RANGE

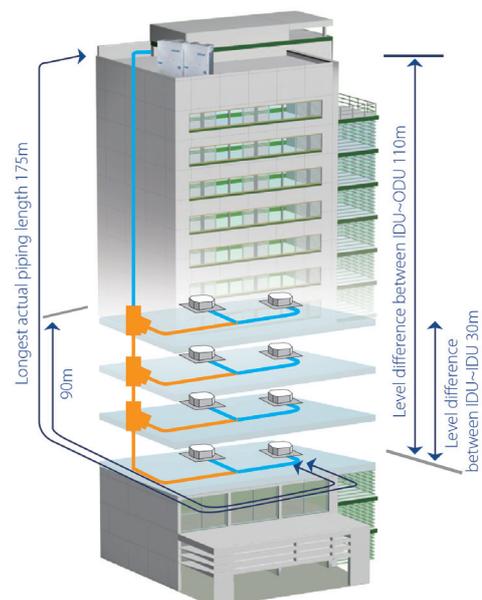
The V6-i VRF can operate stably in a wide ambient temperature range: from -5°C to 48°C in cooling mode and from -23°C to 24°C in heating mode.



LONG PIPING CAPABILITY

- Total piping length: 1000m
- Longest piping length – actual (equivalent): 175m (200m)
- Longest piping length after first branch: 40/90*m
- Level difference between IDUs and ODU – ODU above (below): 90m (110m)
- Level difference between IDUs: 30m

*The longest length after first branch is 40m as standard but can be extended to up to 90m under certain conditions. Please contact your local Midea dealer for further information.



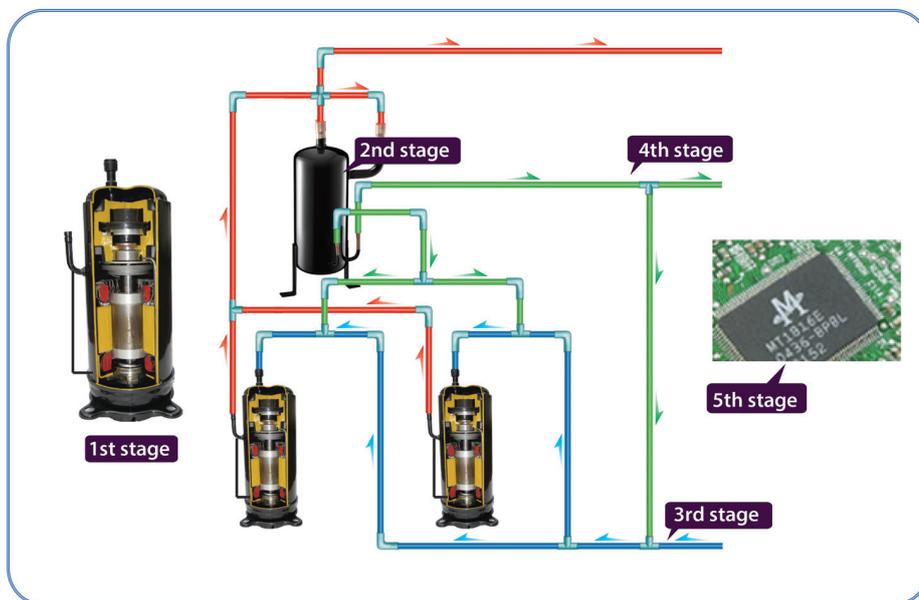
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HIGH RELIABILITY

PRECISE OIL CONTROL TECHNOLOGY

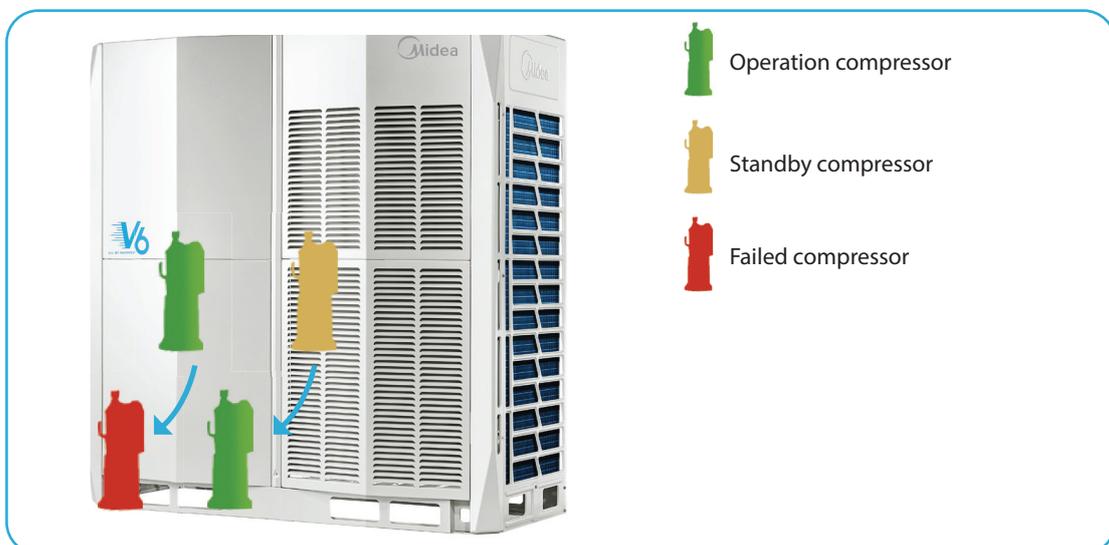
Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

- Compressor internal oil separation.
- High efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.
- Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
- Auto oil return program monitors the running time and system status to ensure reliable oil return.



BACK UP OPERATION

In units with two compressors, if one compressor fails, the other compressor can run on its own for up to 4 days, allowing time for maintenance or repair whilst maintaining comfort.



Compressor backup

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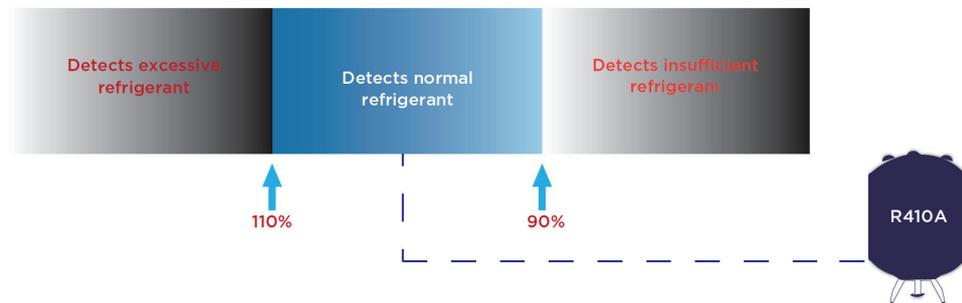
HIGH RELIABILITY

REFRIGERANT COOLING PCB

The V6-i 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.

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 outdoor unit can detect excessive or insufficient amounts of refrigerant, to ensure consistent performance.



ANTI-CORROSION PROTECTION

Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customised with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.

Fan motor

Standard products:
72h of neutral salt mist

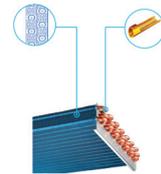


Heavy anti-corrosion products:
240h of neutral salt mist

Painted sheet metal

Standard products:
500h of neutral salt mist
1000h of moisture and heating test
500h of light aging test

Heavy anti-corrosion products:
1000h of neutral salt mist
2000h of moisture and heating test
720h of light aging test



Heat exchanger aluminum foil

Standard products:
72h of neutral salt mist

Heavy anti-corrosion products:
1000h of neutral salt mist
140h of acid salt mist

Heat exchanger copper pipe

Standard products:
24h of neutral salt mist

Heavy anti-corrosion products:
120h of neutral salt mist

Screws / bolts / gaskets

Standard products:
300h of neutral salt mist

Heavy anti-corrosion products:
720h of neutral salt mist



Electric control box case

Standard products:
96h of neutral salt mist

Heavy anti-corrosion products:
240h of neutral salt mist



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EASY INSTALLATION AND SERVICE

NON-POLARIZED COMMUNICATION WIRING*

Only one chain of 2-core non-polarized shielded communication wiring required for indoor and outdoor unit communication.

*In installations where relatively strong electromagnetic fields are present, 3-core shielded wiring should be used in order to prevent interference.



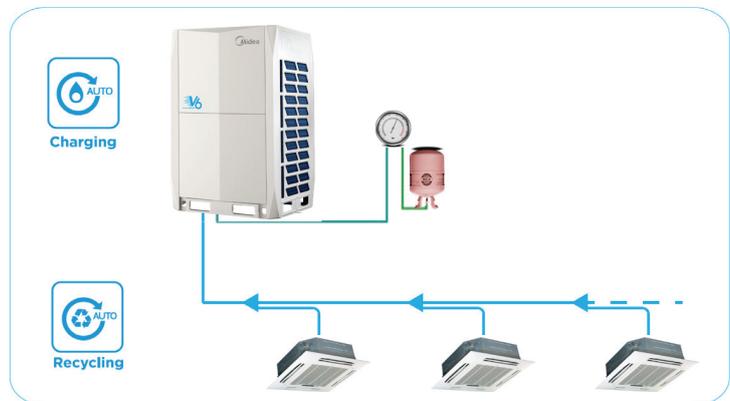
AUTO ADDRESSING

Outdoor units can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.

AUTOMATIC REFRIGERANT CHARGING/RECYCLING FUNCTION*

Automatic refrigerant charging and recycling make installation and servicing easier and more efficient.

*This function is available as a customization option.



MULTIFUNCTIONAL PCB

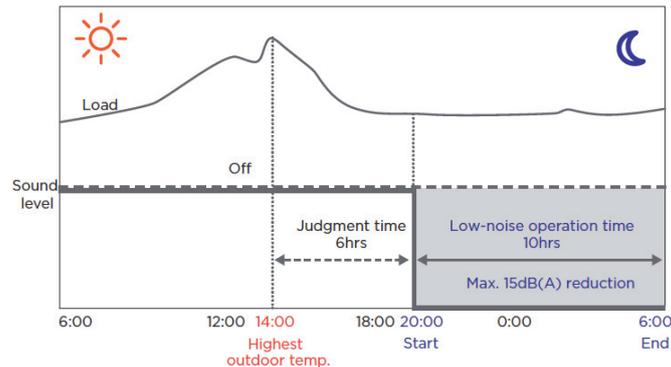
An optional multifunctional small PCB can be installed on the unit's side columns, enabling installation and service engineers to activate Auto-commissioning or check the operating status without removing the front panel. It can also perform automatic data backup of the last 30 minutes' operating record.



ENHANCES COMFORT

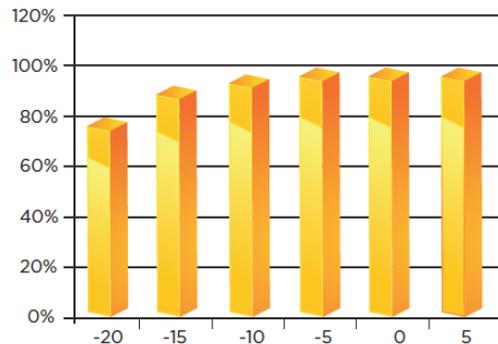
NIGHT SILENT MODE

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.



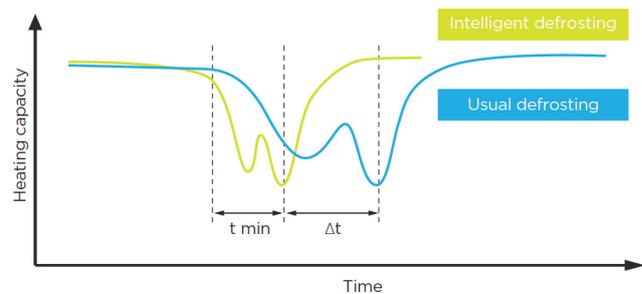
ENHANCED HEATING CAPACITY

Heating capacity is 100% of rated capacity at ambient temperatures as low as -5°C and 90% of rated capacity at -15°C .

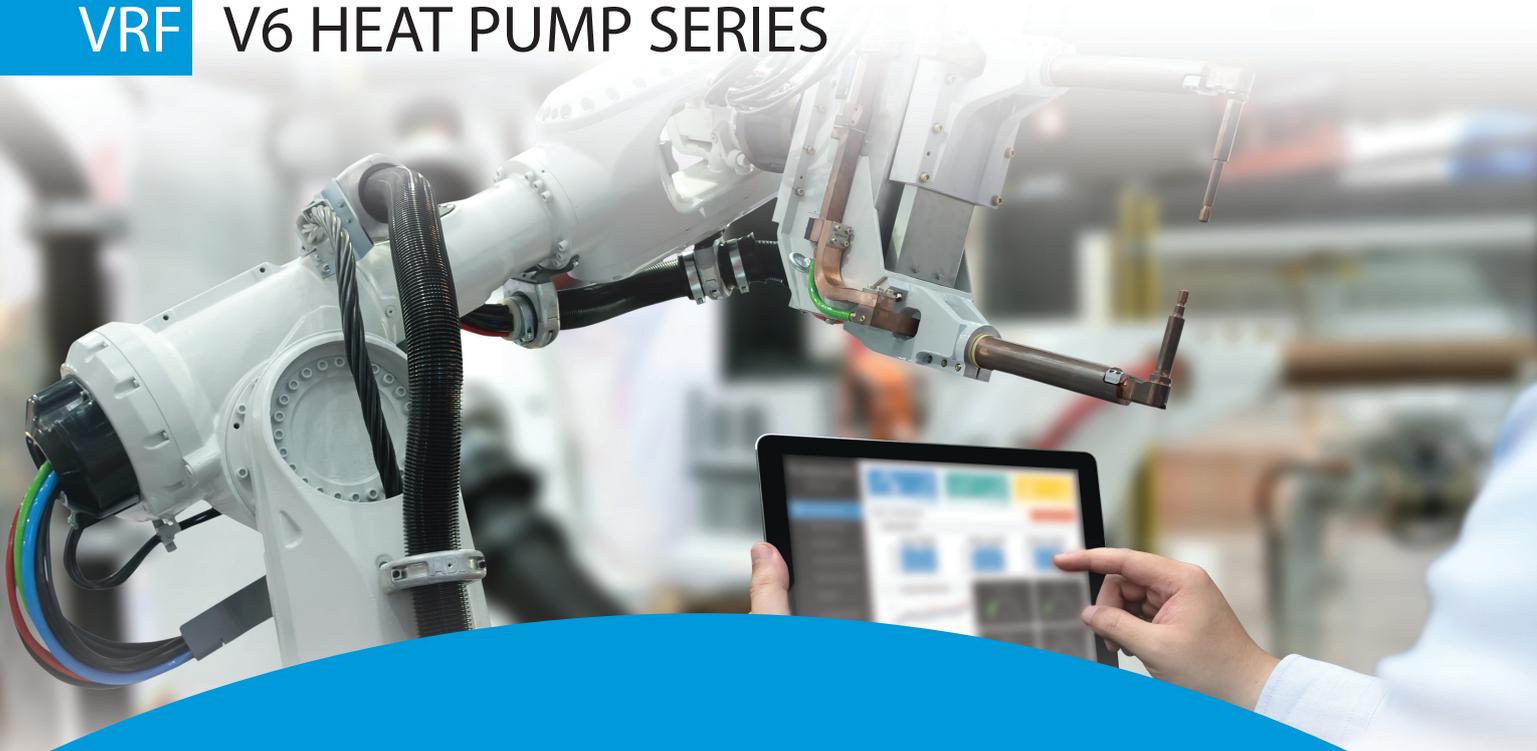


INTELLIGENT DEFROSTING TECHNOLOGY

The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized defrosting valve reduces time required for defrosting to as little as four minutes.



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24/26/28/30/32HP
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CAPACITY		HP	8	10	12
MODEL			MV6-i252WV2GN1-E	MV6-i280WV2GN1-E	MV6-i335WV2GN1-E
Power supply			380-415/3/50		
Recommended Fuse Size		A	25	32	32
Cooling	Capacity	kW	25.2	28	33.5
		kBtu/h	86	95.5	114.3
Heating	Capacity	kW	25.2	28	33.5
		kBtu/h	86	95.5	114.3
Connectable indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Max. quantity		13	16	20
Compressor	Type		DC Inverter		
	Quantity		1		
Fan motor	Type		DC		
	Quantity		1		
Refrigerant	Type		R410A		
	Factory charging	kg (lbs.)	11		
Pipe connections	Liquid pipe	mm(inch)	Φ12.7 (1/2)		Φ15.9 (5/8)
	Gas pipe	mm(inch)	Φ28.6 (1 1/8)		Φ28.6 (1 1/8)
Air flow rate	m ³ /h		11000		
Sound pressure level	dB(A)		55		57
Net dimension (WxHxD)	mm		990×1635×790		
Packed dimension (WxHxD)	mm		1090×1805×860		
Net weight	kg		227		
Gross weight	kg		242		
Operating temperature range	°C		Cooling: -5 to 48; Heating: -23 to 24		



CAPACITY		HP	14	16	18
MODEL			MV6-i400WV2GN1-E	MV6-i450W V2GN1-E	MV6-i500W V2GN1-E
Power supply			380-415/3/50		
Recommended Fuse Size		A	40	40	45
Cooling	Capacity	kW	40	45	50
		kBtu/h	136.5	153.5	170.6
Heating	Capacity	kW	40	45	50
		kBtu/h	136.5	153.5	170.6
Connectable indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Max. quantity		23	26	29
Compressor	Type		DC Inverter		
	Quantity		1		
Fan motor	Type		DC		
	Quantity		1		
Refrigerant	Type		R410A		
	Factory charging	kg (lbs.)	13		
Pipe connections	Liquid pipe	mm(inch)	Φ15.9 (5/8)		Φ19.1 (3/4)
	Gas pipe	mm(inch)	Φ31.8 (1 1/4)		
Air flow rate	m ³ /h		13000		
Sound pressure level	dB(A)		59		62
Net dimension (WxHxD)	mm		1340×1635×850		
Packed dimension (WxHxD)	mm		1405×1805×910		
Net weight	kg		277		295
Gross weight	kg		304		322
Operating temperature range	°C		Cooling: -5 to 48; Heating: -23 to 24		

Nominal Conditions: Cooling: indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB.

Nominal Conditions: Heating: indoor 20°C DB, outdoor 7°C DB, 6°C WB.

Sound Pressure is measured 1.0 in front of the unit and 1.5m above floor level at nominal conditions.

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CAPACITY		HP	20		22	
MODEL			MV6-i560WV2GN1-E		MV6-i615WV2GN1-E	
Power supply			380-415/3/50			
Recommended Fuse Size		A	45		50	
Cooling	Capacity	kW	56		61.5	
		kBtu/h	191.1		209.8	
Heating	Capacity	kW	56		61.5	
		kBtu/h	191.1		209.8	
Connectable indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		33		36	
Compressor	Type		DC Inverter			
	Quantity		2			
Fan motor	Type		DC			
	Quantity		2			
Refrigerant	Type		R410A			
	Factory charging	kg (lbs.)	17			
Pipe connections	Liquid pipe	mm(inch)	Φ19.1 (3/4)			
	Gas pipe	mm(inch)	Φ31.8 (1 1/4)			
Air flow rate		m ³ /h	17000			
Sound pressure level		dB(A)	63			
Net dimension (WxHxD)		mm	1340×1635×825			
Packed dimension (WxHxD)		mm	1405×1805×910			
Net weight		kg	344			
Gross weight		kg	364			
Operating temperature range		°C	Cooling: -5 to 48; Heating: -23 to 24			



CAPACITY		HP	24		26		28		30		32			
MODEL			MV6-i670WV2GN1-E		MV6-i730WV2GN1-E		MV6-i785WV2GN1-E		MV6-i850WV2GN1-E		MV6-i900WV2GN1-E			
Power supply			3-phase, 380-415V,50/60Hz											
Recommended Fuse Size		A	50		60		60		70		70			
Cooling	Capacity	kW	67		73		78.5		85		90			
		kBtu/h	228.6		249.1		267.8		290		307.1			
Heating	Capacity	kW	67		73		78.5		85		90			
		kBtu/h	228.6		249.1		267.8		290		307.1			
Connectable indoor unit	Total capacity		50-130% of outdoor unit capacity											
	Max. quantity		39		43		46		50		53			
Compressor	Type		DC inverter											
	Quantity		2											
Fan motor	Type		DC											
	Quantity		2											
Refrigerant	Type		R410A											
	Factory charging	kg (lbs.)	22					25						
Pipe connections	Liquid pipe	mm(inch)	Φ19.1 (3/4)		Φ22.2 (7/8)									
	Gas pipe	mm(inch)	Φ31.8 (1 1/4)					Φ38.1 (1 1/2)						
Air flow rate		m ³ /h	25000					24000						
Sound pressure level		dB(A)	64					65						
Net dimension (WxHxD)		mm	1730×1830×850											
Packed dimension (WxHxD)		mm	1800×2000×910											
Net weight		kg	407		429				475					
Gross weight		kg	430		452				507					
Operating temperature range		°C	Cooling: -5 to 48; Heating: -23 to 24											

Nominal Conditions: Cooling: indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB.
 Nominal Conditions: Heating: indoor 20°C DB, outdoor 7°C DB, 6°C WB.
 Sound Pressure is measured 1.0 in front of the unit and 1.5m above floor level at nominal conditions.