

Mini VRF Heat Pump
R454B ATOM X Series

208/230V, 1Ph, 60Hz
Model: MDV-V24WMN10T

Midea Building Technologies Division
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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

Unit Performance and Data:

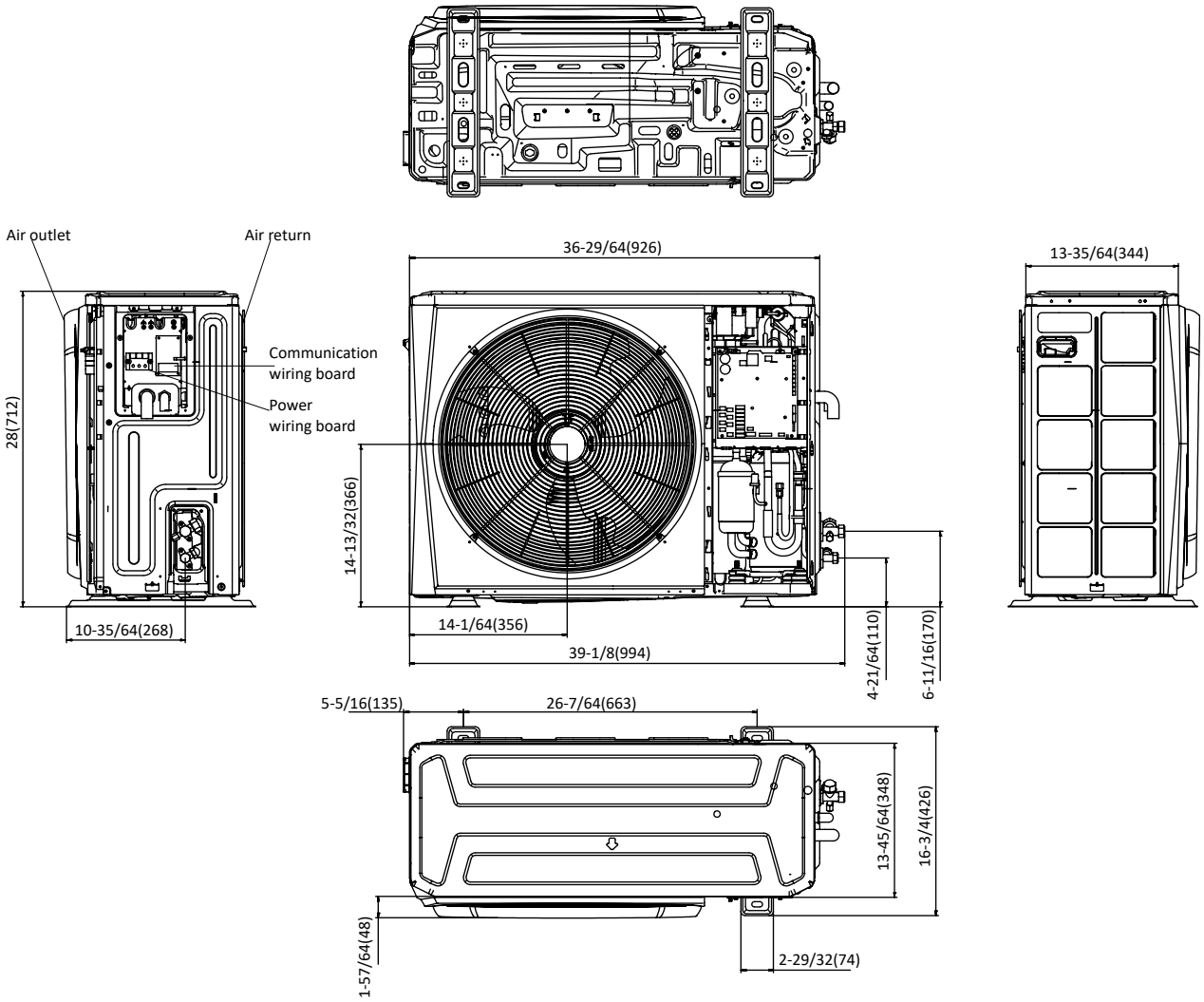
Model			MDV-V24WMN10T
Performance (Ducted/Non-Ducted)			
Cooling[1]	Capacity	Btu/h	22000/24400
	Power Input	W	1880/2085
Heating[2]	Capacity	Btu/h	25000/26000
	Power Input	W	2220/1859
AHRI Ratings (Ducted/Non-Ducted)			
EER2[1]		Btu/h/W	11.7/11.7
SEER2[1]		Btu/h/W	17/18.5
COP2[1]		W/W	3.3/4.1
HSPF2 (Region IV)[2]		Btu/h/W	9/10
HSPF2 (Region V)[2]		Btu/h/W	7/7.5
Electrical Data			
Power supply		V/Ph/Hz	208/230/1/60
MOP		A	25
MCA		A	16
Fan			
Type × Quantity			Propeller × 1
Air Flow Volume		CFM	2315
Fan Motor Running Current		A	1.5
Fan Motor Output		W	176
Compressor			
Type × Quantity			DC inverter × 1
Compressor Rated Load Amps (RLA)		A	11.6
Compressor Refrigerant Oil Type			VG75R
Compressor Refrigerant Oil Charge Volume		L	0.67
Refrigerant Piping			
Connection Pipe	Liquid pipe	in. (mm)	ϕ3/8 (9.52)
	Gas pipe	in. (mm)	ϕ5/8 (15.9)
Max. Equivalent Pipe Length (ODU to IDU)		ft (mm)	328 (100)
Factory Refrigerant Charge		lbs (kg)	3.64 (1.65)
Refrigerant Type			R454B
Dimension/Weight			
Unit Dimensions (W×H×D)		inch (mm)	39-1/8 × 28 × 16-3/4 (994×712×426)
Packed Dimensions (W×H×D)		inch (mm)	41-5/16 × 35-1/16 × 19-1/16 (1050×890×485)
Net Weight		lbs (kg)	121 (55)
Net Weight		lbs (kg)	147 (67)
Other			
Indoor Units	Connection Ratio	%	65~130
	Maximum IDU quantity		4
Sound Pressure Level [3](Cooling/Heating)		dBA	56/59
Ambient temp. operation range	Cooling	°F	5 to 125
	Heating	°F	-22 to 86
Safety Certification			ETL/AHRI
Protection Devices	High Pressure		High pressure switch, High pressure sensor
	Low Pressure		Low pressure sensor
	Compressor		Discharge temp. protection, Over-current protection

Notes:
1. 95°F dry bulb/75°F wet bulb outdoor air temperature and 80°F dry bulb/67°F wet bulb entering indoor coil air;
2. 47°F dry bulb/43°F wet bulb outdoor air temperature and 70°F dry bulb/60°F wet bulb entering indoor coil air;
3. Sound pressure level is measured 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

Features:

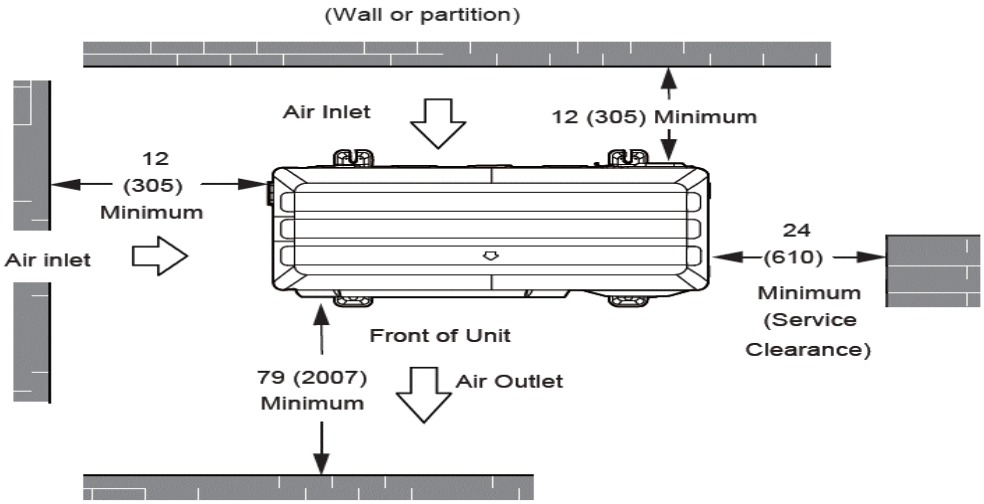
- 2-ton unit, wide operating range.
- Low GWP R454B refrigerant.
- DC inverter compressor for optimal efficiency.
- Arbitrary topology communication, and communication distance up 6562ft
- Automatic refrigerant charging
- Optional R454B refrigerant shut-off device
- Long piping capability.

Dimensions (unit: in (mm))



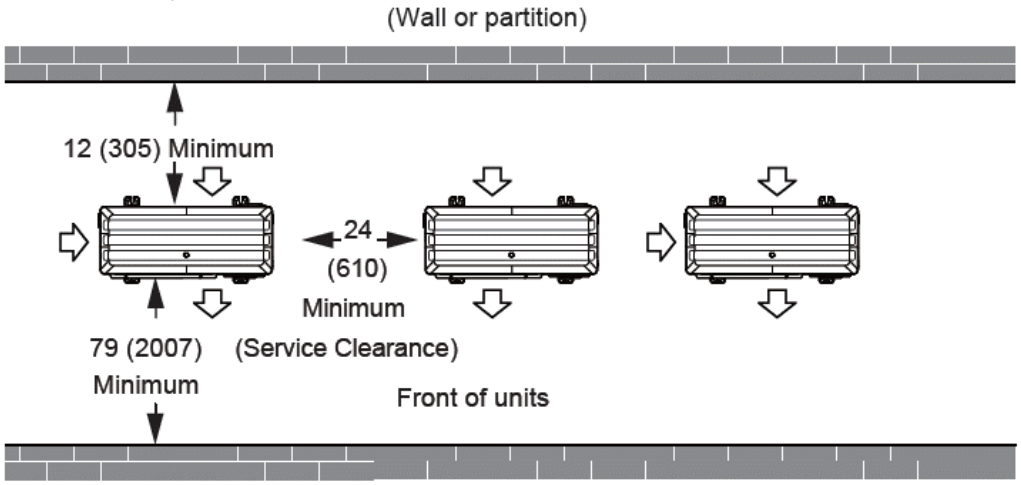
Installation Space Requirements (unit: in (mm))

Single unit installation



Note: 24 in (610 mm) clearance required on top of unit.

Multiple unit installation top view



Multiple unit installation side view

