

## Medium Static Pressure Duct



Model		MIH07T2MN10	MIH09T2MN10	MIH12T2MN10	MIH15T2MN10	MIH18T2MN10	MIH24T2MN10	MIH30T2MN10	MIH36T2MN10	MIH48T2MN10	
<b>Power supply</b>		1-phase, 208/230V, 60Hz									
<b>Cooling</b>	Capacity	Btu/h (kW)	7000 (2.1)	9000 (2.6)	12000 (3.5)	15000 (4.4)	19000 (5.6)	24000 (7)	30000 (8.8)	38000 (11.1)	48000 (14.1)
<b>Heating</b>	Capacity	Btu/h (kW)	8000 (2.3)	10000 (2.9)	13500 (4)	17000 (5)	21000 (6.2)	27000 (7.9)	34000 (10)	42000 (12.3)	54000 (15.8)
<b>External Static Pressure</b>		in.wg	0.2 (0-0.64)				0.32 (0-0.64)				
<b>Indoor unit</b>	Net dimensions (WxHxD)	in. (mm)	23-5/8x9-5/8x30-5/16 (600x245x770)		31-1/2x9-5/8x30-5/16 (800x245x770)		41-5/16x9-5/8x30-5/16 (1050x245x770)		55-1/8x9-5/8x30-5/16 (1400x245x770)		
	Packed dimensions (WxHxD)	in. (mm)	33-7/8x12-13/16x38-3/4 (860x325x985)		41-3/4x12-13/16x38-3/4 (1060x325x985)		51-9/16x12-13/16x38-3/4 (1310x325x985)		65-3/8x12-13/16x38-3/4 (1660x325x985)		
	Net/Gross weight	lbs (kg)	54/69.4 (24.5/31.5)	58.2/73.6 (26.4/33.4)	75/93.9 (34/42.6)	94.8/114.2 (43/51.8)		116.8/142.4 (53/64.6)			

Note: Built in refrigerant leak sensor and water pump.

## Low Static Pressure Duct



Model		MIH05T3MN10	MIH07T3MN10	MIH09T3MN10	MIH12T3MN10	MIH15T3MN10	MIH18T3MN10	MIH24T3MN10	MIH30T3MN10	MIH36T3MN10	
<b>Power supply</b>		1-phase, 208/230V, 60Hz									
<b>Cooling</b>	Capacity	Btu/h (kW)	5000 (1.5)	7000 (2.1)	9000 (2.6)	12000 (3.5)	15000 (4.4)	18000 (5.3)	24000 (7)	30000 (8.8)	36000 (10.6)
<b>Heating</b>	Capacity	Btu/h (kW)	6000 (1.8)	8000 (2.3)	10000 (2.9)	13500 (4)	17000 (5)	21000 (6.2)	27000 (7.9)	34000 (10)	40000 (11.7)
<b>External Static Pressure</b>		in.wg	0.04 (0-0.2)				0.08 (0-0.2)				
<b>Indoor unit</b>	Net dimensions (WxHxD)	in. (mm)	21-5/8x7-13/16x18-1/2 (550x199x470)		27-9/16x7-13/16x18-1/2 (700x199x470)		35-7/16x7-13/16x18-1/2 (900x199x470)		43-5/16x7-13/16x18-1/2 (1100x199x470)		63x7-13/16x18-1/2 (1600x199x470)
	Packed dimensions (WxHxD)	in. (mm)	31-11/16x10-13/16x24-3/16 (805x275x615)		37-5/8x10-13/16x24-3/16 (955x275x615)		45-1/2x10-13/16x24-3/16 (1155x275x615)		43-5/16x7-13/16x18-1/2 (1355x275x615)		73x10-13/16x24-3/16 (1855x275x615)
	Net/Gross weight	lbs (kg)	27.6/38.6(12.5/17.5)		32/44.1(14.5/20)		39.7/52.9(18/24)		48.5/62.8 (22/28.5)		67.2/93.7(30.5/42.5)

Note: Built in refrigerant leak sensor and water pump.

## AHU



Model		MIH12VMN10	MIH18VMN10	MIH24VMN10	MIH30VMN10	MIH36VMN10	MIH48VMN10	MIH54VMN10	MIH60VMN10	
<b>Power supply</b>		1-phase, 208/230V, 60Hz								
<b>Cooling</b>	Capacity	Btu/h (kW)	12000 (3.5)	18000 (5.3)	24000 (7)	30000 (8.8)	36000 (10.6)	48000 (14.1)	54000 (15.8)	60000 (17.6)
<b>Heating</b>	Capacity	Btu/h (kW)	13500 (4)	21000 (6.2)	27000 (7.9)	34000 (10)	40000 (11.7)	54000 (15.8)	60000 (17.6)	66000 (19.3)
<b>External Static Pressure</b>		in.wg	0.2 (0-0.8)							
<b>Indoor unit</b>	Net dimensions (WxHxD)	in. (mm)	18-1/8x41-5/16x20-1/2 (460x1050x520)		19-11/16x46-7/16x21-5/8 (500x1180x550)		22-1/16x54-1/2x24 (560x1385x610)			
	Packed dimensions (WxHxD)	in. (mm)	20-3/4x42-3/8x24-3/16 (527x1077x614)		22-5/16x47-1/2x25-3/8 (567x1207x644)		24-11/16x55-9/16x27-3/4 (627x1412x704)			
	Net/Gross weight	lbs (kg)	108/119 (49/54)		130/141 (59/64)		157/165 (71/75)			165/172 (75/78)

Note: Built in refrigerant leak sensor.

## OUTDOOR UNIT SPECIFICATIONS

Model		MDV-V18WMN10T	MDV-V24WMN10T	MDV-V30WMN10T	MDV-V36WMN10T	MDV-V48WMN10T	MDV-V60WMN10T	
<b>Power supply</b>		1-phase, 208/230V, 60Hz						
<b>Nominal Size - Tons</b>		1.5	2	2.5	3	4	5	
<b>Cooling 1</b>	Capacity	Btu/h	18200	24400	30000	36000	48000	60000
	EER2	Btu/W	12.0	11.7	14.0	13.3	11.7	9.5
	SEER2	Btu/W	17.5	18.5	20	20	20	19.5
<b>Heating 2</b>	Capacity	Btu/h	20000	26000	30000	40000	50000	60000
	COP2	W/W	4.2	4.1	4.2	4.1	3.9	3.9
	HSPF2 (Region IV)	Btu/W	10	10	10.1	10.1	10.1	10.1
	HSPF2 (Region V)	Btu/W	7.4	7.5	7.6	7.5	7	6.6
<b>Low Ambient Heating</b>	Capacity	Btu	18000	20000	30000	34000	40000	42000
	COP	W/W	1.8	1.8	2.1	2	2	1.9
	Capability ratio	%	90%	77%	100%	85%	80%	70%
<b>Operating Temperature Range</b>	Cooling (DB)	°F (°C)	5 °F - 125 °F (-15 °C - 52 °C)					
	Heating(DB)	°F (°C)	-22 °F - 86 °F (-30 °C - 30 °C)					
<b>Refrigerant</b>	Type		R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
	Charge Amount -	lbs (kg)	3.64 (1.65)	3.64 (1.65)	6.83 (3.1)	6.83 (3.1)	9.04 (4.1)	9.04 (4.1)
<b>Connections</b>	Liquid pipe	in. (mm)	φ3/8 (φ9.52)					
	Gas pipe (low pressure)	in. (mm)	φ5/8 (φ15.9)			φ3/4 (φ19.1)		
	Total pipe length (actual)	ft (mm)	492 (150)		984 (300)			
	Longest pipe length (actual)	ft (mm)	296 (90)		296 (90)			
	<b>Connectable Indoor Units</b>	Total capacity	%	65-130	65-130	50-130	50-130	50-130
Maximum IDU quantity			3 units	4 units	5 units	5 units	7 units	9 units
<b>Outdoor unit</b>	Net dimensions (WxHxD)	in. (mm)	39-1/8x28x16-3/4 (994x712x426)		40-11/16x34x20-9/16 (1033x864x523)		38-1/2x52-1/4x15-3/4 (978x1327x400)	
	Packed dimensions (WxHxD)	in. (mm)	41-5/16x35-1/16x19-1/16 (1050x890x485)		44-1/16x38-9/16x22-1/16 (1120x980x560)		42-5/8x56-1/2x17-1/8 (1082x1435x435)	
	Net/Gross Weight	lbs (kg)	121 (55) / 147 (67)		216 (98) / 238 (108)		238 (108) / 262 (119)	
<b>Sound Data</b>	Cooling	dB (A)	55	56	59	59	60	60
	Heating	dB (A)	58	59	61	61	62	62

Note:

- 95°F dry bulb /75°F wet bulb outdoor air temperature and 80°F dry bulb/67°F wet bulb entering indoor coil air, connected VRF Four-Way Cassette Indoor;
- 47°F dry bulb/43°F wet bulb outdoor air temperature and 70°F dry bulb/60°F wet bulb entering indoor coil air, connected VRF Four-Way Cassette Indoor;
- 5°F dry bulb/3°F wet bulb outdoor air temperature and 70°F dry bulb/60°F wet bulb entering indoor coil air, connected VRF Four-Way Cassette Indoor.

Optional: Shut-off device

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# Atom X

## Mini VRF Inverter Technology Up to 18 SEER2

208/230V, 1Phase, R454B

Multi-professional certifications



# OUTDOOR UNIT + MULTIPLE VRF IDUS

Various VRF indoor unit can be controlled separately or centrally to meet different requirements

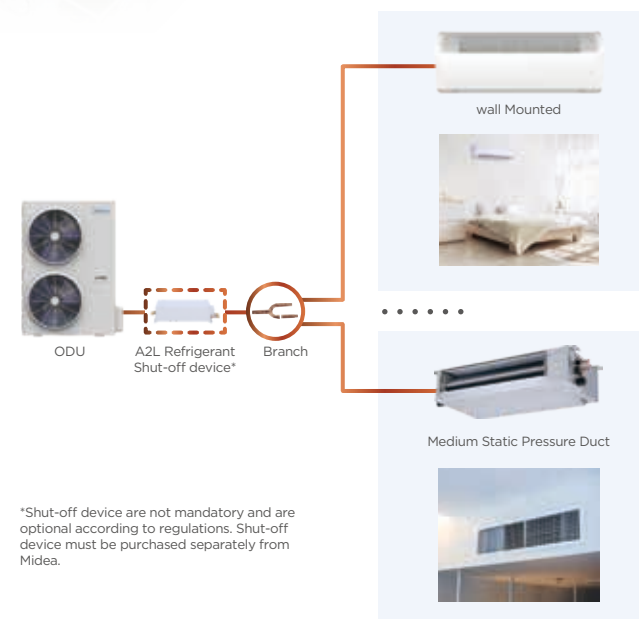


## 01 Flexible Controller Wiring

- Arbitrary topology communication
- Superb anti-Interference ability
- Communication distance up 6562ft (2000m)



## 03 System Configurations



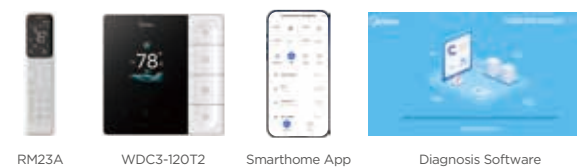
\*Shut-off device are not mandatory and are optional according to regulators. Shut-off device must be purchased separately from Midea.

## 02 Multiple VRF IDUs

The AtomX VRF offers 6 types of indoor units to meet different scenarios.

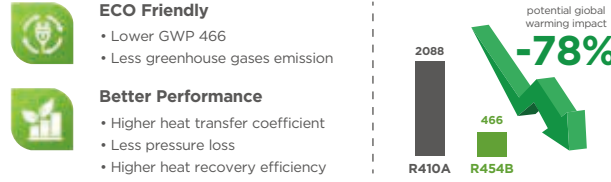


## 04 Multiple Controller (Optional)



## R454B Refrigerant

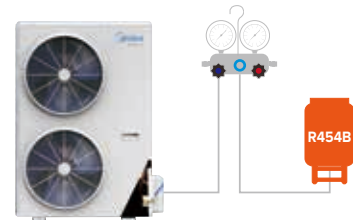
R454B is a lower GWP, better performance refrigerant that is kinder to the environment.



- ECO Friendly**
- Lower GWP 466
  - Less greenhouse gases emission
- Better Performance**
- Higher heat transfer coefficient
  - Less pressure loss
  - Higher heat recovery efficiency

## Automatic Refrigerant Charging

Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.



- Automatic refrigerant charging**
- Connect refrigerant tank to the outdoor unit & activate automatic charging function
  - Close the shut-off valve automatically & finish the filling process
- Automatic Method**
- Manual refrigerant charging**
- Calculate additional refrigerant quantity
  - Connect refrigerant tank to the outdoor unit & start the filling process
  - Observe the weight scale to check the refrigerant charge
  - Close the shut-off valve manually & finish the filling process
- Traditional Method**

## Long Piping Capability

The AtomX can support a total piping length of up to 984ft, an installation height difference of up to 164ft between indoor and outdoor units, and up to 49ft between indoor units, making the AtomX perfectly suitable for small and medium-sized buildings.

Item	Capability [ft(mm)]	
	VRF	
	1.5-2Ton	2.5-5Ton
Total piping length	492 (150)	984 (300)
1. Longest piping length	Actual	296 (90)
	Equivalent	328 (100)
2. Longest piping length after first branch	ODU up	131 (40)
	ODU down	131 (40)
3. Largest level difference between IDUs and ODU	ODU up	164 (50)
	ODU down	131 (40)
4. Largest level difference between IDUs	49 (15)	49 (15)

## Wide Operating Range

AtomX Series can operate at temperatures as low as -22°F (-30°C) for heating and up to 125°F (52°C) for cooling.



## Refrigerant Safety Protection

Detect refrigerant leakage of the indoor unit. The shut-off device will cut off the refrigeration pipeline to prevent the R454B refrigerant of the outdoor unit from leaking into the room. The refrigerant leak sensor is installed on the indoor unit side to detect refrigerant leaks and can automatically activate alarm measures.



\*The shut-off device must be purchased from Midea

## AtomX Outdoor Unit Lineup



## AtomX VRF Indoor Unit Lineup

- 01 Four-way Cassette**  
Capacity range : 09/12/15/18/24/30/36/48kBtu/h (8 models)
- 02 Medium Static Pressure Duct**  
Capacity range : 07/09/12/15/18/24/30/36/48kBtu/h (9 models)
- 03 Wall Mounted**  
Capacity range : 05/07/09/12/15/18/24kBtu/h (7 models)
- 04 Compact Four-way Cassette**  
Capacity range : 05/07/09/12/15/18kBtu/h (6 models)
- 05 Low Static Pressure Duct**  
Capacity range : 05/07/09/12/15/18/24/30/36kBtu/h (9 models)
- 06 Multi-Position Air Handler**  
Capacity range : 12/18/24/30/36/48/54/60kBtu/h (8 models)

# VRF INDOOR UNIT SPECIFICATIONS

## Wall Mounted

Model	MIH05GMN10	MIH07GMN10	MIH09GMN10	MIH12GMN10	MIH15GMN10	MIH18GMN10	MIH24GMN10	MIH30GMN10	
<b>Power supply</b>	1-phase, 208/230V, 60Hz								
<b>Cooling</b>	Capacity	Btu/h (kW)	5000 (1.5)	7500 (2.2)	9500 (2.8)	12000 (3.5)	15000 (4.4)	18000 (5.3)	
<b>Heating</b>	Capacity	Btu/h (kW)	6000 (1.8)	8500 (2.5)	10900 (3.2)	13000 (3.8)	17000 (5)	21000 (6.2)	
<b>Indoor unit</b>	Net dimensions (WxHxD)	in. (mm)	29-1/2x11-5/8x10-7/16 (750x295x265)			37-3/8x11-5/8x10-7/16 (950x295x265)		47-1/4x11-5/8x10-7/16 (1200x295x265)	
	Packed dimensions (WxHxD)	in. (mm)	38-3/4x15-3/16x14-3/16 (985x385x360)			46-5/8x15-3/16x14-3/16 (1185x385x360)		56-1/8x15-3/16x14-3/16 (1425x385x360)	
	Net/Gross weight	lbs (kg)	24/32 (10.9/14.5)			28.4/36 (12.9/16.3)		35/43.8 (15.9/19.9)	

Note: Built-in refrigerant leakage sensor and water pump. Occupancy sensor is optional.

## Four-Way Cassette

Model	MIH09Q4MN10	MIH12Q4MN10	MIH15Q4MN10	MIH18Q4MN10	MIH24Q4MN10	MIH30Q4MN10	MIH36Q4MN10	MIH48Q4MN10
<b>Power supply</b>	1-phase, 208/230V, 60Hz							
<b>Cooling</b>	Capacity	Btu/h (kW)	9000 (2.6)	12000 (3.5)	15000 (4.4)	18000 (5.3)	24000 (7)	30000 (8.8)
<b>Heating</b>	Capacity	Btu/h (kW)	10000 (2.9)	13500 (4)	17000 (5)	21000 (6.2)	27000 (7.9)	34000 (10)
<b>Indoor unit</b>	Net dimensions (WxHxD)	in. (mm)	33-1/16x8x33-1/16 (840x204x840)		33-1/16x9-1/16x33-1/16 (840x246x840)		33-1/16x11-5/16x33-1/16 (840x288x840)	
	Packed dimensions (WxHxD)	in. (mm)	39-15/16x9-13/16x39-15/16 (1015x275x1015)		39-15/16x11-5/8x39-15/16 (1015x315x1015)		39-15/16x13-3/16x39-15/16 (1015x355x1015)	
	Net/Gross weight	lbs (kg)	45.2/60.6 (20.5/28)	50.7/63.9 (21.6/29.1)	51.8/67.2 (23.1/31)	57.3/72.8 (24.5/32.5)		61.7/78.3 (27.1/35.2)

Note: Built in refrigerant leak sensor and water pump.

## Compact Four-Way Cassette

Model	MIH05Q4CMN10	MIH07Q4CMN10	MIH09Q4CMN10	MIH12Q4CMN10	MIH15Q4CMN10	MIH18Q4CMN10
<b>Power supply</b>	1-phase, 208/230V, 60Hz					
<b>Cooling</b>	Capacity	Btu/h (kW)	5000 (1.5)	7000 (2.1)	9000 (2.6)	12000 (3.5)
<b>Heating</b>	Capacity	Btu/h (kW)	6000 (1.8)	8000 (2.3)	10000 (2.9)	13000 (3.8)
<b>Indoor unit</b>	Net dimensions (WxHxD)	in. (mm)	225-1/8x9-1/4x22-5/8 (638x235x575)			
	Packed dimensions (WxHxD)	in. (mm)	30-1/8x11-5/8x30-1/8 (765x295x765)			
	Net/Gross weight	lbs (kg)	30.9/44.1 (14/20)			

Note: Built in refrigerant leak sensor and water pump.