

**16-22HP**

Table 2-1.2: 16-22HP specifications

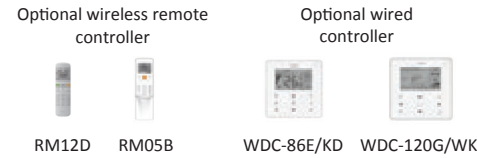
HP			16	18	20	22
Model name			MV6-i450WV2GN1-E	MV6-i500WV2GN1-E	<b>MV6-i560WV2GN1-E</b>	MV6-i615WV2GN1-E
Power supply		V/Ph/Hz	380-415/3/50			
Cooling <sup>1</sup>	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	12.9	14.7	16.0	20.2
	EER			3.50	3.40	3.50
Heating <sup>2</sup>	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	10.7	12.2	13.8	17.6
	COP			4.20	4.10	4.05
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Maximum quantity		26	29	33	36
Compressor	Type		DC inverter			
	Quantity		1		2	
	Oil type		FV68H			
	Start-up method		Soft start			
Fan	Type		Propeller			
	Motor type		DC			
	Quantity		1		2	
	Motor output	kW	0.92	0.92	0.56×2	0.56×2
	Airflow rate	m <sup>3</sup> /h	13000	13000	17000	17000
	Drive type		Direct			
Refrigerant	Type		R410A			
	Factory charge	kg	13	13	17	17
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ15.9	Φ19.1		
	Gas pipe	mm	Φ31.8	Φ31.8		
Sound pressure level <sup>4</sup>		dB(A)	65		66	
Sound power level		dB(A)	88			
Net dimensions (W×H×D)		mm	1340×1635×850		1340×1635×825	
Packed dimensions (W×H×D)		mm	1405×1805×910			
Net weight		kg	277	295	344	344
Gross weight		kg	304	322	364	364
Ambient temp. operation range	Cooling	°C	-5 ~ 48			
	Heating	°C	-23 ~ 24			

## Notes:

- Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor air temperature 20°C DB; outdoor air temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valve.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Fresh Air Processing Unit

- 100% fresh air processing unit, both fresh air filtration and heating/cooling can be achieved in a single system
- External static pressure up to 400Pa facilitates extensive duct and grille network
- 20-step static pressure control on all models (requires latest generation wired controllers)
- Drain pump with a 750mm pump head available as a customization option



Model	MI2-125FADN1		MI2-140FADN1	
Power supply	1 phase, 220-240V, 50Hz			
Cooling <sup>1</sup>	Capacity	kW	12.5	14.0
		kBtu/h	42.6	47.8
Power input		W	480	480
	Capacity	kW	10.5	12.0
Heating <sup>2</sup>		kBtu/h	36.0	41.0
	Power input	W	480	480
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	2000/1917/1833/1750/1667/1583/1500		
External static pressure	Pa	180 (30~200)		
Sound pressure level <sup>4</sup>	dB(A)	48/47/46/45/44/43/42		
Sound power level	dB(A)	66/65/64/63/62/61/60		
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1322x423x691	
	Packed dimensions (WxHxD)	mm	1436x450x768	
	Net/Gross weight	kg	68/76	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ25	

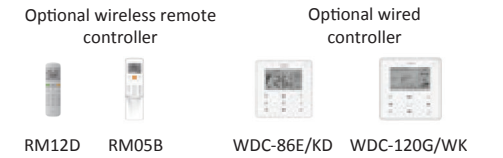
Model	MI2-200FADN1	MI2-250FADN1	MI2-280FADN1	MI2-560FADN1		
Power supply	1 phase, 220-240V, 50Hz					
Cooling <sup>1</sup>	Capacity	kW	20.0	25.0	28.0	56.0
		kBtu/h	68.2	85.3	95.5	191.1
Power input		W	850	850	850	2272
	Capacity	kW	12.8	16.0	18.0	39.0
Heating <sup>2</sup>		kBtu/h	43.7	54.6	61.4	133.1
	Power input	W	850	850	850	2272
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	3000/2833/2667/2500/2333/2167/2000			7400/7000/6600/6200/5800/5400/5000	
External static pressure	Pa	200 (30~250)			300 (100~400)	
Sound pressure level <sup>4</sup>	dB(A)	50/49/48/47/46/44/43			59/58/57/56/54/53/51	
Sound power level	dB(A)	68/67/66/65/64/62/61			77/76/75/74/72/71/69	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1454x515x931		2005x929x670	
	Packed dimensions (WxHxD)	mm	1509x550x990		2095x964x800	
	Net/Gross weight	kg	130/142		218/248	
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2		Φ15.9/Φ28.6	
	Drain pipe	mm	OD Φ32			

**Notes:**

1. Outdoor temperature 33°C DB, 28°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Outdoor temperature 0°C DB, -2.9°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).  
Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.  
All specifications are measured at standard external static pressure.  
The Fresh Air Processing Unit can be used either independently or in conjunction with other types of indoor unit. If used independently, the total capacity of the Fresh Air Processing Units must be between 50% and 100% of that of the outdoor units. If used in conjunction with other types of indoor unit, the total capacity of the indoor units and Fresh Air Processing Units must be between 50% and 100% of that of the outdoor units and the total capacity of the Fresh Air Processing Units must not exceed 30% of that of the outdoor units.

# Wall Mounted Unit

- Three interchangeable panels allow units to blend easily with any interior decoration, perfect for rooms with no false ceilings or free floor space
- Refrigerant outlet direction can be left, right or rear as the installation situation requires



Model	MI2-22GDN1		MI2-28GDN1	
Power supply	1 phase, 220-240V, 50Hz			
Cooling <sup>1</sup>	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
Power input		W	28	28
	Capacity	kW	2.4	3.2
Heating <sup>2</sup>		kBtu/h	8.2	10.9
	Power input	W	28	28
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	422/411/402/393/380/368/356		417/402/386/370/353/338/316
Sound pressure level <sup>4</sup>	dB(A)	31/30/30/30/29/29/29		31/30/30/30/29/29/29
Sound power level	dB(A)	46/45/45/45/44/44/44		46/45/45/45/44/44/44
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	835x280x203	
	Packed dimensions (WxHxD)	mm	935x385x320	
	Net/Gross weight	kg	8.4/12.1	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	OD Φ16	

Model	MI2-36GDN1	MI2-45GDN1	MI2-56GDN1		
Power supply	1 phase, 220-240V, 50Hz				
Cooling <sup>1</sup>	Capacity	kW	3.6	4.5	5.6
		kBtu/h	12.3	15.4	19.1
Power input		W	30	40	45
	Capacity	kW	4.0	5.0	6.3
Heating <sup>2</sup>		kBtu/h	13.6	17.1	21.5
	Power input	W	30	40	45
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	656/628/591/573/544/515/488		594/563/535/507/478/450/424	747/713/685/648/613/578/547
Sound pressure level <sup>4</sup>	dB(A)	33/32/32/31/31/30/30		35/34/33/33/32/31/31	38/37/36/36/35/34/34
Sound power level	dB(A)	48/47/47/46/46/45/45		50/49/48/48/47/46/46	53/52/51/51/50/49/49
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	990x315x223		
	Packed dimensions (WxHxD)	mm	1085x420x335		
	Net/Gross weight	kg	11.4/15.5		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	OD Φ16		

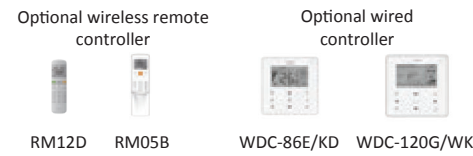
Model	MI2-71GDN1	MI2-80GDN1	MI2-90GDN1		
Power supply	1 phase, 220-240V, 50Hz				
Cooling <sup>1</sup>	Capacity	kW	7.1	8.0	9.0
		kBtu/h	24.2	27.3	30.7
Power input		W	55	55	82
	Capacity	kW	8.0	9.0	10.0
Heating <sup>2</sup>		kBtu/h	27.3	30.7	34.1
	Power input	W	55	55	82
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	1195/1130/1065/1005/940/875/809		1195/1130/1065/1005/940/875/809	1421/1300/1125/1067/1005/934/867
Sound pressure level <sup>4</sup>	dB(A)	44/43/42/39/38/37/36		44/43/42/39/38/37/36	48/46/45/43/41/40/38
Sound power level	dB(A)	59/58/57/54/53/52/51		59/58/57/54/53/52/51	63/61/60/58/56/55/53
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1194x343x262		
	Packed dimensions (WxHxD)	mm	1290x375x460		
	Net/Gross weight	kg	17.0/22.4		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ16		

**Notes:**

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).  
Sound pressure level is measured 1m in front and 1m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

# Medium Static Pressure Duct

- Fresh air intake
- 6-step static pressure control on 2.2kW to 7.1kW models and 10-step static pressure control on 8kW to 14kW units (requires latest generation wired controllers)
- Drain pump with 750mm pump head fitted as standard
- Flexible installation for the air inlet may be positioned either on the underside or the rear of the unit



Model		MI2-22T2DN1	MI2-28T2DN1	MI2-36T2DN1	
Power supply		1 phase, 220-240V, 50Hz			
Cooling <sup>1</sup>	Capacity	kW	2.2	2.8	3.6
		kBtu/h	7.5	9.6	12.3
Power input		W	40	45	45
Heating <sup>2</sup>	Capacity	kW	2.6	3.2	4.0
		kBtu/h	8.2	10.9	13.6
Power input		W	40	45	45
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	520/480/440/400/360/330/300		580/540/500/460/430/400/370	
External static pressure	Pa	10 (0~50)			
Sound pressure level <sup>4</sup>	dB(A)	32/31/29/28/26/25/23		33/32/31/30/28/27/25	
Sound power level	dB(A)	50/49/47/46/44/43/41		51/50/49/48/46/45/43	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	780×210×500		
	Packed dimensions (WxHxD)	mm	870×285×525		
	Net/Gross weight	kg	18/21		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7		
	Drain pipe	mm	OD Φ25		

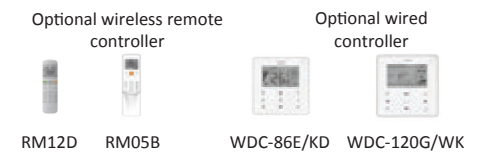
Model		MI2-45T2DN1	MI2-56T2DN1	MI2-71T2DN1	
Power supply		1 phase, 220-240V, 50Hz			
Cooling <sup>1</sup>	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15.4	19.1	24.2
Power input		W	92	98	98
Heating <sup>2</sup>	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17.1	21.5	27.3
Power input		W	92	98	98
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	800/740/680/620/540/480/400	830/760/720/680/640/600/560	1000/960/900/840/780/720/680	
External static pressure	Pa	10 (0~50)			
Sound pressure level <sup>4</sup>	dB(A)	36/34/32/31/29/27/25	36/34/33/32/30/29/28	37/35/33/32/30/29/28	
Sound power level	dB(A)	54/52/50/49/47/45/43	54/52/51/50/48/47/46	55/53/51/50/48/47/46	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1000×210×500		
	Packed dimensions (WxHxD)	mm	1115×285×525		
	Net/Gross weight	kg	21.5/25		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7	Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ25		

Model		MI2-80T2DN1	MI2-90T2DN1	MI2-112T2DN1	MI2-140T2DN1	
Power supply		1 phase, 220-240V, 50Hz				
Cooling <sup>1</sup>	Capacity	kW	8.0	9.0	11.2	14.0
		kBtu/h	27.3	30.7	38.2	47.8
Power input		W	110	120	200	250
Heating <sup>2</sup>	Capacity	kW	9.0	10.0	12.5	15.5
		kBtu/h	30.7	34.1	42.7	52.9
Power input		W	110	120	200	250
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	1260/1180/1100/1020/940/860/780	1500/1430/1360/1290/1210/1140/1080	1960/1860/1760/1660/1560/1460/1360		
External static pressure	Pa	20 (10~100)			40 (30~150)	
Sound pressure level <sup>4</sup>	dB(A)	37/35/34/33/31/29/28		39/38/38/37/35/34/33	41/39/38/37/36/35/33	
Sound power level	dB(A)	55/53/52/51/49/47/46		57/56/56/55/53/52/51	59/57/56/55/54/53/51	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1230×270×775		1290×300×865	
	Packed dimensions (WxHxD)	mm	1355×355×795		1400×375×925	
	Net/Gross weight	kg	36.5/44.5	37/45		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9			
	Drain pipe	mm	OD Φ25			

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
  2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
  3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
  4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
  5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- All specifications are measured at standard external static pressure.

# High Static Pressure Duct

- External static pressure up to 400Pa facilitates extensive duct and grille network
- 20-step static pressure control on all models (requires latest generation wired controllers)
- A double-skin drainage pan provides double protection for ceilings (models 71 to 160).
- Drain pump with a 750mm pump head available as a customization option



Model		MI2-71T1DN1	MI2-80T1DN1	MI2-90T1DN1	
Power supply		1 phase, 220-240V, 50Hz			
Cooling <sup>1</sup>	Capacity	kW	7.1	8.0	9.0
		kBtu/h	24.2	27.3	30.7
Power input		W	180	180	220
Heating <sup>2</sup>	Capacity	kW	8.0	9.0	10.0
		kBtu/h	27.3	30.7	34.1
Power input		W	180	180	220
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	1360/1327/1293/1260/1227/1193/1160	1360/1327/1293/1260/1227/1193/1160	1420/1373/1327/1280/1233/1187/1140	
External static pressure	Pa	100 (30~200)			
Sound pressure level <sup>4</sup>	dB(A)	46/46/45/45/44/43/42	46/46/45/45/44/43/42	50/49/48/48/47/46/45	
Sound power level	dB(A)	64/64/63/63/62/61/60	64/64/63/63/62/61/60	68/67/66/66/65/64/63	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	965×423×690		
	Packed dimensions (WxHxD)	mm	1090×440×768		
	Net/Gross weight	kg	41/47		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ25		

Model		MI2-112T1DN1	MI2-140T1DN1	MI2-160T1DN1	
Power supply		1 phase, 220-240V, 50Hz			
Cooling <sup>1</sup>	Capacity	kW	11.2	14.0	16.0
		kBtu/h	38.2	47.8	54.6
Power input		W	380	420	700
Heating <sup>2</sup>	Capacity	kW	12.5	16.0	17.0
		kBtu/h	42.7	54.6	58.0
Power input		W	380	420	700
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	1870/1783/1697/1610/1523/1437/1350	2240/2133/2027/1920/1813/1707/1600	2660/2530/2400/2270/2140/2010/1880	
External static pressure	Pa	100 (30~200)			
Sound pressure level <sup>4</sup>	dB(A)	50/50/49/48/47/46/45	53/52/51/51/50/49/48	54/54/53/52/51/50/50	
Sound power level	dB(A)	68/68/67/66/65/64/63	71/70/69/69/68/67/66	72/72/71/70/69/68/68	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	965×423×690		
	Packed dimensions (WxHxD)	mm	1090×440×768		
	Net/Gross weight	kg	51/57		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ25		

Model		MI2-200T1DN1	MI2-250T1DN1	MI2-280T1DN1	MI2-560T1DN1	
Power supply		1 phase, 220-240V, 50Hz				
Cooling <sup>1</sup>	Capacity	kW	20.0	25.0	28.0	56.0
		kBtu/h	68.2	85.3	95.5	191.1
Power input		W	990	1200	1200	2272
Heating <sup>2</sup>	Capacity	kW	22.5	26.0	31.5	63.0
		kBtu/h	76.8	88.7	107.5	215.0
Power input		W	990	1200	1200	2272
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	4330/4230/4130/4030/3930/3830/3730			7400/7000/6600/6200/5800/5400/5000	
External static pressure	Pa	170 (20~250)			300 (100~400)	
Sound pressure level <sup>4</sup>	dB(A)	57/56/55/54/53/52/50		59/58/57/56/55/53/51		
Sound power level	dB(A)	75/74/73/72/71/70/68		77/76/75/74/73/71/69		
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1454×515×931		2005×929×670	
	Packed dimensions (WxHxD)	mm	1509×550×990		2095×964×800	
	Net/Gross weight	kg	130/142		218/248	
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2		Φ15.9/Φ28.6	
	Drain pipe	mm	OD Φ32			

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
  2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
  3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
  4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
  5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- All specifications are measured at standard external static pressure.