



Producator: **MIDEA**

Unitati externe individuale Easyfit, R410A

Model: MVi-400WV2RN1(A), MVi-450WV2RN1(A),
MVi-500WV2RN1(A), MVi-560WV2RN1(A),
MVi-615WV2RN1(A)

Cod Romstal: 81MD3049, 81MD3050, 81MD3051



FISA TEHNICA



Revizia nr. 0 / ianuarie 2025

1 Specificatii

14-18HP

Tabel1: 14-18HP specificatii

HP			14	16	18
Model			MVi-400WV2RN1(A)	MVi-450WV2RN1(A)	MVi-500WV2RN1(A)
Sursă de alimentare			380-415V, 3N~, 50Hz		
Răcire(T1) ¹	Capacitate	kW	40	45	50
		kBtu/h	136.5	153.5	170.5
	Putere electrica consumata	kW	15.7	16.0	19.5
		EER	2.54	2.82	2.57
Încălzire2 (nominal)	Capacitate	kW	40	45	50
		kBtu/h	136.5	153.5	170.5
	Putere electrica consumata	kW	11.7	12.2	13.7
		COP	3.42	3.68	3.65
Încălzire2 (Max)	Capacitate	kW	45	50	56.5
		kBtu/h	153.5	170.6	192.8
	Putere electrica consumata	kW	14.6	15.7	18.1
		COP	3.09	3.19	3.12
SEER			6.23	6.15	6.08
ηs,c			263.0%	267.8%	255.8%
SCOP			4.00	4.10	4.15
ηs,h			163.0%	166.2%	163.8%
Unitate internă conectată	Capacitatea totală		50 – 130% din capacitatea unitatii externe		
	Cantitate maximă		22	26	29
Compresor	Tip		DC inverter		
	Cantitate		1		
	Tipul de ulei		FVC68D		
	Metoda de pornire		Soft start		
Ventilator	Tip				
	Tipul motorului		DC		
	Cantitate		2		
	Putere motor	kW	0.2×2	0.56×2	0.56×2
	Presiune statica	Pa	0-35 (default); 35-80 (personalizat)		
	Debit nominal aer	m3/h	12500	18500	20000
	Tip unitate		Direct		
Agent frigorific	Tip		R410A		
	Incarcare fabrica	kg	7.4	8	8
Racorduri pentru țevi3	Țeavă de lichid	mm	Φ12.7	Φ15.9	
	Țeavă de gaz	mm	Φ25.4	Φ28.6	
Nivel de presiune acustică4		dB(A)	59	60	61
Nivel de putere acustică4		dB(A)	82	86	88
Dimensiuni nete (L×A×P)		mm	1130×1760×580	1250×1760×580	
Dimensiuni ambalate (ACM×H×P)		mm	1210×1916×597	1330×1916×597	
Greutate netă		kg	187	214	214
Greutatea brută		kg	201	229	229
Interval de funcționare la temperatura ambiantă	Răcire	°C	-15 până la 55	-15 până la 55	-15 până la 55
	Încălzire	°C	-30 până la 30	-30 până la 30	-30 până la 30

Note:

1. Temperatura aerului interior 27°C DB (bulb uscat), 19°C WB (bulb umed); temperatura aerului exterior 35°C (T1) DB (bulb uscat);lungimea echivalenta a tevilor de agent frigorific 5m cu diferenta de nivel zero.
2. Temperatura aerului interior 20°C DB (bulb uscat); temperatura aerului exterior 7°C DB, 6°C WB (bulb umed); lungimea echivalenta a tevilor de agent frigorific 5m cu diferenta de nivel zero.
3. Diametrele date sunt cele ale robinetelor de sectionare ale unitatii.
4. Nivelul de presiune sonora este masurat la o distanta de 1m in fata unitatii si la o inaltime de 1.3m deasupra pardoselei intr-o camera semi-anecoică.

1 Specificatii

20-22HP

Tabel 2: 20-22HP specificatii

HP			20	22
Model			MVI-560WV2RN1(A)	MVI-615WV2RN1(A)
Putere de alimentare			380-415V, 3N~, 50/60Hz	
Răcire(T1) ¹	Capacitate	kW	56	61.5
		kBtu/h	191.1	209.8
	Putere consumata	kW	22.9	30.8
	EER		2.45	2.00
Încălzire2 (nominal)	Capacitate	kW	56	61.5
		kBtu/h	191.1	209.8
	Putere consumata	kW	15.5	18.8
	COP		3.62	3.28
Încălzire2 (Max)	Capacitate	kW	63	69
		kBtu/h	215.0	235.4
	Putere consumata	kW	20.3	22.5
	COP		3.10	3.07
SEER			5.95	5.80
ηs,c			249.0%	243.0%
SCOP			4.07	4.00
ηs,h			159.8%	157.0%
Unitate internă conectată :	Capacitatea totală		50-130% din capacitatea externa	
	Cantitate maximă		32	35
Compresor	Tip		DC inverter	
	Cantitate		1	
	Tipul de ulei		FVC68D	
	Metoda de pornire		Soft start	
Ventilator	Tip		Paleta	
	Tipul motorului		DC	
	Cantitate		2	
	Putere motor	kW	0.56×2	
	Presiune statica	Pa	0-35 (default); 35-80 (,personalizat)	
	Debit nominal aer	m³/h	18500	19000
	Tip unitate		Direct	
Agent frigorific	Tip		R410A	
	Incarcare fabrica	kg	8.5	8.5
Racorduri pentru țevi3	Țeavă de lichid	mm	Φ15.9	
	Țeavă de gaz	mm	Φ28.6	
Nivel de presiune acustică4		dB(A)	61	62
Nivel de putere acustică4		dB(A)	89	89
Dimensiuni nete (L×A×P)		mm	1250×1760×580	
Dimensiuni ambalate (ACM×H×P)		mm	1330×1916×597	
Greutate netă		kg	234	234
Greutatea brută		kg	249	249
Interval de funcționare la temperatură ambiantă	Răcire	°C	-15 to 55	-15 to 55
	Încălzire	°C	-30 to 30	-30 to 30

Note:

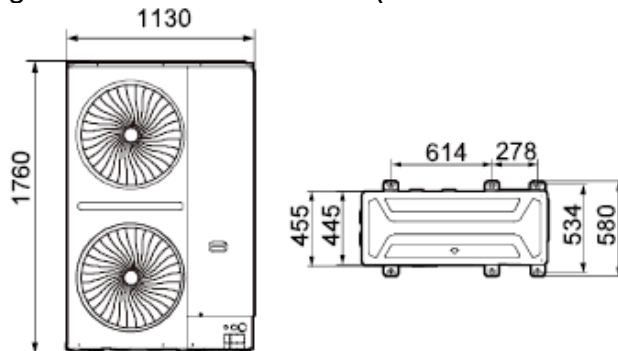
1. Temperatura aerului interior 27°C DB (bulb uscat), 19°C WB (bulb umed); temperatura aerului exterior 35°C(T1) DB (bulb uscat);lungimea echivalenta a tevilor de agent frigorific 5m cu diferenta de nivel zero.
2. Temperatura aerului interior 20°C DB (bulb uscat); temperatura aerului exterior 7°C DB, 6°C WB (bulb umed); lungimea echivalenta a tevilor de agent frigorific 5m cu diferenta de nivel zero.
3. Diametrele date sunt cele ale robinetelor de sectionare ale unitatii.
4. Nivelul de presiune sonora este masurat la distanta de 1m in fata unitatea si la o inaltime de 1.3m deasupra pardoselei intr-o camera semi-anecoică.

2. Dimensiuni

2.1. Unitati simple

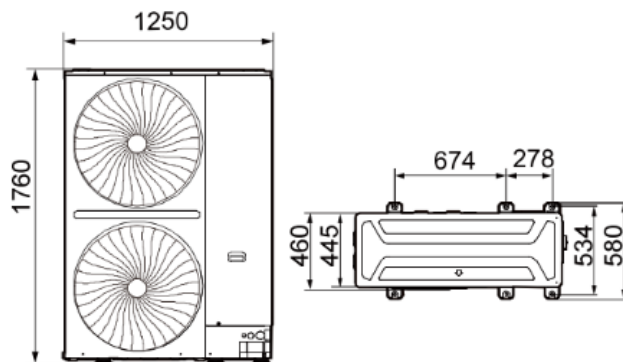
14 HP

Figura 1: Dimensiuni 14HP (unitate de masura: mm)



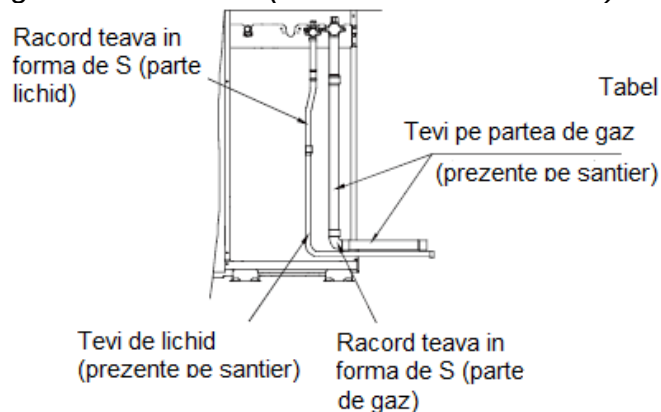
16/18/20/22 HP

Figura 2: Dimensiuni 16/18/20/22 HP (unitate de masura: mm)



Detaliu R

Figura 3: Detaliu R (unitate de masura: mm)



Tabel 2-2-1: Diametru tevi de conexiune (unitate: mm)

Dimens	ΦA (lichid)	ΦB (Gaz)
14HP	$\Phi 12.7$	$\Phi 25.4$
16HP	$\Phi 15.9$	$\Phi 28.6$
18HP	$\Phi 15.9$	$\Phi 28.6$
20HP	$\Phi 15.9$	$\Phi 28.6$
22HP	$\Phi 15.9$	$\Phi 28.6$

Nota:

In santier conductele pot fi conectate în 4 direcții, ca exemplu, mai sus s-a utilizat metoda de conectare a ieșirii spre dreapta

Colectivul de redactare a cartii tehnice:

Traducere:
Tehnoredactare:

Iuliana BELEGANTE
Iuliana BELEGANTE

Engineering Data

EasyFit Series VRF



MVi-400WV2RN1(A) MVi-500WV2RN1(A)

MVi-450WV2RN1(A) MVi-560WV2RN1(A)

MVi-615WV2RN1(A)

1 Specifications

14-18HP

Table 2-1.1: 14-18HP specifications

HP			14	16	18
Model			MVi-400WV2RN1(A)	MVi-450WV2RN1(A)	MVi-500WV2RN1(A)
Power supply			380-415V, 3N~, 50Hz		
Cooling(T1) ¹	Capacity	kW	40	45	50
		kBtu/h	136.5	153.5	170.6
	Power input	kW	15.7	16.0	19.5
	EER		2.54	2.82	2.57
Heating ² (Rated)	Capacity	kW	40	45	50
		kBtu/h	136.5	153.5	170.6
	Power input	kW	11.7	12.2	13.7
	COP		3.42	3.68	3.65
Heating ² (Max)	Capacity	kW	45	50	56.5
		kBtu/h	153.5	170.6	192.8
	Power input	kW	14.6	15.7	18.1
	COP		3.09	3.19	3.12
SEER			6.23	6.15	6.08
ηs,c			263.0%	267.8%	255.8%
SCOP			4.00	4.10	4.15
ηs,h			163.0%	166.2%	163.8%
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		22	26	29
Compressor	Type		DC inverter		
	Quantity		1		
	Oil type		FVC68D		
	Start-up method		Soft start		
Fan	Type		Propeller		
	Motor type		DC		
	Quantity		2		
	Motor output	kW	0.2×2	0.56×2	0.56×2
	Static pressure	Pa	0-35 (default); 35-80 (customized)		
	Airflow rate	m³/h	12500	18500	20000
	Drive type		Direct		
Refrigerant	Type		R410A		
	Factory charge	kg	7.4	8	8
Pipe connections ³	Liquid pipe	mm	Φ12.7	Φ15.9	
	Gas pipe	mm	Φ25.4	Φ28.6	
Sound pressure level ⁴		dB(A)	59	60	61
Sound power level ⁴		dB(A)	82	86	88
Net dimensions (W×H×D)		mm	1130×1760×580	1250×1760×580	
Packed dimensions (W×H×D)		mm	1210×1916×597	1330×1916×597	
Net weight		kg	187	214	214
Gross weight		kg	201	229	229
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30	-30 to 30

Notes:

- Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C(T1) DB; equivalent refrigerant piping length 5m with zero level difference.
- Indoor air temperature 20°C DB; outdoor air temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 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.

20-22HP

Table 2-1.2: 20-22HP specifications

HP			20	22
Model			MVi-560WV2RN1(A)	MVi-615WV2RN1(A)
Power supply			380-415V, 3N~, 50/60Hz	
Cooling(T1) ¹	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	22.9	30.8
	EER		2.45	2.00
Heating ² (Rated)	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	15.5	18.8
	COP		3.62	3.28
Heating ² (Max)	Capacity	kW	63	69
		kBtu/h	215.0	235.4
	Power input	kW	20.3	22.5
	COP		3.10	3.07
SEER			5.95	5.80
ηs,c			249.0%	243.0%
SCOP			4.07	4.00
ηs,h			159.8%	157.0%
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	
	Maximum quantity		32	35
Compressor	Type		DC inverter	
	Quantity		1	
	Oil type		FVC68D	
	Start-up method		Soft start	
Fan	Type		Propeller	
	Motor type		DC	
	Quantity		2	
	Motor output	kW	0.56×2	
	Static pressure	Pa	0-35 (default); 35-80 (customized)	
	Airflow rate	m³/h	18500	19000
	Drive type		Direct	
	Type		R410A	
Refrigerant	Factory charge	kg	8.5	8.5
Pipe connections ³	Liquid pipe	mm	Φ15.9	
	Gas pipe	mm	Φ28.6	
Sound pressure level ⁴		dB(A)	61	62
Sound power level ⁴		dB(A)	89	89
Net dimensions (W×H×D)		mm	1250×1760×580	
Packed dimensions (W×H×D)		mm	1330×1916×597	
Net weight		kg	234	234
Gross weight		kg	249	249
Ambient temp. operation range	Cooling	°C	-15 to 55	-15 to 55
	Heating	°C	-30 to 30	-30 to 30

Notes:

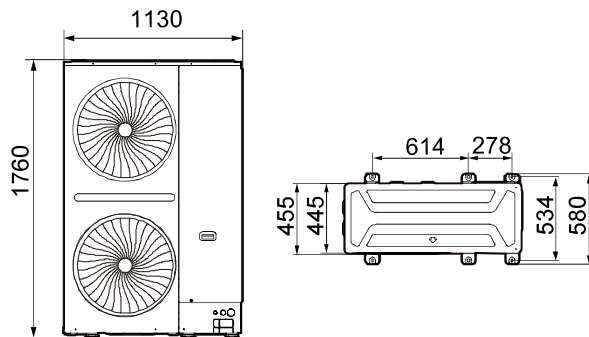
- Indoor air temperature 27°C DB, 19°C WB; outdoor air temperature 35°C(T1) DB; equivalent refrigerant piping length 5m with zero level difference.
- Indoor air temperature 20°C DB; outdoor air temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
- Diameters 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.

2 Dimensions

2.1 Single Units

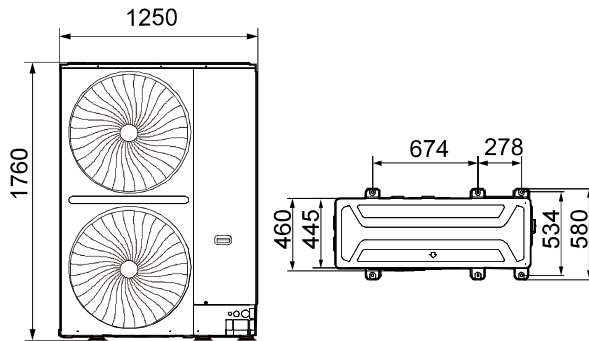
14 HP

Figure 2-2.1: 14 HP dimensions (unit: mm)



16/18/20/22HP

Figure 2-2.2: 16/18/20/22HP dimensions (unit: mm)



Detail R

Figure 2-2.4: Detail R (unit: mm)

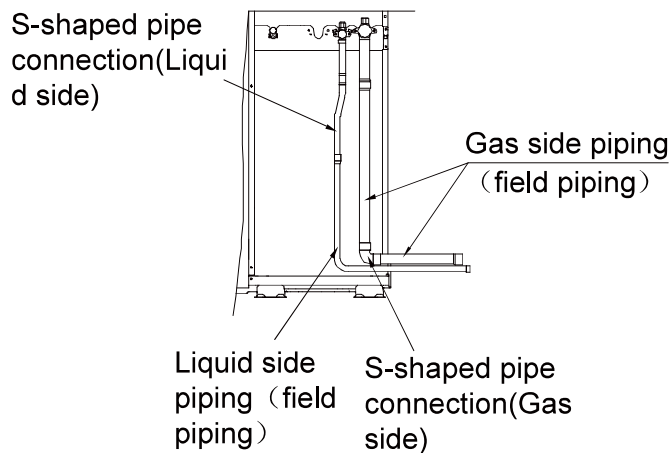


Table 2-2.1: Connection piping diameter (unit: mm)

Size	ΦA(Liquid)	ΦB(Gas)
14HP	Φ12.7	Φ25.4
16HP	Φ15.9	Φ28.6
18HP	Φ15.9	Φ28.6
20HP	Φ15.9	Φ28.6
22HP	Φ15.9	Φ28.6

Notes:

1. Field piping can be connected in 4 directions, the above uses the connection method of rightward outlet pipe as an example