

The technical documentation

1. General description

Models:

MV-F24BI

2. Reference to harmonised standards: EN 14825:2016、EN 14511-2:2013、EN 14511-3:2013、EN 12102-1:2017

3. Specific precautions that shall be taken when the model is assembled, installed, maintained or tested:

- ① According to the directions of Operating Instruction Manual.
- ② Set the guide vane of air outlet at middle position by hand to achieve maximum air volume.
- ③ Set upper guide louver at the appropriate position to achieve maximum air volume.
- ④ Press any button during the testing mode, the unit will exit the lock frequency, you need repeat the process to enter testing mode if needed!
- ⑤ After each test a condition, need to power off and test the next working condition !

4. Measured technical parameters & 5. The calculations performed with the measured parameters & 6. Testing conditions

Information requirements							
(the number of decimals in the box indicates the precision of reporting)							
Information to identify the model(s) to which the information relates to:							
Function (indicate to which function information applies)				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
cooling	Y			Average (mandatory)	Y		
heating	Y			Warmer (if designated)	N		
				Colder (if designated)	N		
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	12,0	kW	cooling	Test SEER	6,00	—
heating/Average	Pdesignh	11,5	kW	heating/Average	SCOP(A)	3,80	—
heating/Warmer	Pdesignh	x,x	kW	heating/Warmer	SCOP(W)	x,xx	—

heating/Cooler	P _{design}	x,x	k W	heating/Cooler	SCOP(C)	x,xx	—
Tested capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature T _j				Tested energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature T _j			
T _j = 35 °C	P _{tc}	12,06	k W	T _j = 35 °C	EER	2,97	—
T _j = 30 °C	P _{tc}	8,65	k W	T _j = 30 °C	EER	4,34	—
T _j = 25 °C	P _{tc}	5,66	k W	T _j = 25 °C	EER	7,95	—
T _j = 20 °C	P _{tc}	3,27	k W	T _j = 20 °C	EER	9,36	—
Tested capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature T _j				Tested coefficient of performance (*)/Average season, at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{th}	10,12	k W	T _j = - 7 °C	COP	2,50	—
T _j = 2 °C	P _{th}	6,20	k W	T _j = 2 °C	COP	3,83	—
T _j = 7 °C	P _{th}	4,15	k W	T _j = 7 °C	COP	4,80	—
T _j = 12 °C	P _{th}	2,40	k W	T _j = 12 °C	COP	5,50	—
T _j = bivalent temperature	P _{th}	10,12	k W	T _j = bivalent temperature	COP	2,50	—
T _j = operating limit	P _{th}	8,02	k W	T _j = operating limit	COP	2,35	—
Tested capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature T _j				Tested coefficient of performance (*)/Warmer season, at indoor temperature 20 °C and outdoor temperature T _j			
T _j = 2 °C	P _{th}	x,x	k W	T _j = 2 °C	COP	x,x	—
T _j = 7 °C	P _{th}	x,x	k W	T _j = 7 °C	COP	x,x	—
T _j = 12 °C	P _{th}	x,x	k W	T _j = 12 °C	COP	x,x	—
T _j = bivalent temperature	P _{th}	x,x	k W	T _j = bivalent temperature	COP	x,x	—
T _j = operating limit	P _{th}	x,x	k W	T _j = operating limit	COP	x,x	—

Tested capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Tested coefficient of performance (*) /Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pth	x,x	k W	Tj = - 7 °C	COP	x,x	—
Tj = 2 °C	Pth	x,x	k W	Tj = 2 °C	COP	x,x	—
Tj = 7 °C	Pth	x,x	k W	Tj = 7 °C	COP	x,x	—
Tj = 12 °C	Pth	x,x	k W	Tj = 12 °C	COP	x,x	—
Tj = bivalent temperature	Pth	x,x	k W	Tj = bivalent temperature	COP	x,x	—
Tj = operating limit	Pth	x,x	k W	Tj = operating limit	COP	x,x	—
Tj = - 15 °C	Pth	x,x	k W	Tj = - 15 °C	COP	x,x	—
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-7	°C	heating/Average	Tol	-10	°C
heating/Warmer	Tbiv	x	°C	heating/Warmer	Tol	x	°C
heating/Colder	Tbiv	x	°C	heating/Colder	Tol	x	°C
Power consumption of cycling				Efficiency of cycling			
cooling	Pcycc	x,x	k W	cooling	EERcyc	x,x	—
heating	Pcyh	x,x	k W	heating	COPcyc	x,x	—
Degradation co-efficient cooling (**)	Cdc	0,25	—	Degradation co-efficient heating (**)	Cdh	0,25	—
Electric power input in power modes other than 'active mode'				Seasonal electricity consumption			
off mode	P _{OFF}	0,00900	k W	cooling	Q _{CE}	699	kWh/a
standby mode	P _{SB}	0,00900	k W	heating/Average	Q _{HE}	4227	kWh/a
thermostat-off mode	P _{TO}	0.0323/0.0360	k W	heating/Warmer	Q _{HE}	x	kWh/a
crankcase heater mode	P _{CK}	0,0	k W	heating/Colder	Q _{HE}	x	kWh/a

Capacity control (indicate one of three options)		Other items			
fixed	N	Sound power level (indoor/outdoor)	LWA	54/70	dB(A)
staged	N	Global warming potential	GWP	675	kgC O ₂ eq.
variable	Y	Rated air flow (indoor/outdoor)	—	950/600/5200	m ³ /h