The technical documentation

1. General description

Models:

MV-F12BI

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（标称值，和能源标签一致）				Seasonal efficiency（实测值，保留两位小数，直接舍掉后面小数）			
cooling	Pdesignc	8,0	kW	cooling	Test SEER	5,90	—

heating/Average	Pdesignh	7,2	kW	heating/Average	SCOP(A)	3,80	—
heating/Warmer	Pdesignh	x,x	kW	heating/Warmer	SCOP(W)	x,xx	—
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP(C)	x,xx	—
Tested capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj				Tested energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj			
Tj = 35 °C	Ptc	8,07	kW	Tj = 35 °C	EER	3,13	—
Tj = 30 °C	Ptc	5,80	kW	Tj = 30 °C	EER	4,55	—
Tj = 25 °C	Ptc	3,69	kW	Tj = 25 °C	EER	7,12	—
Tj = 20 °C	Ptc	2,49	kW	Tj = 20 °C	EER	10,69	—
Tested capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Tested coefficient of performance (*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj = – 7 °C	Pth	6,57	kW	Tj = – 7 °C	COP	2,36	—
Tj = 2 °C	Pth	3,95	kW	Tj = 2 °C	COP	3,96	—
Tj = 7 °C	Pth	2,56	kW	Tj = 7 °C	COP	4,64	—
Tj = 12 °C	Pth	1,89	kW	Tj = 12 °C	COP	5,82	—
Tj = bivalent temperature	Pth	6,57	kW	Tj = bivalent temperature	COP	2,36	—
Tj = operating limit	Pth	5,32	kW	Tj = operating limit	COP	2,03	—
Tested capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Tested coefficient of performance (*)/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj = 2 °C	Pth	x,x	kW	Tj = 2 °C	COP	x,x	—
Tj = 7 °C	Pth	x,x	kW	Tj = 7 °C	COP	x,x	—
Tj = 12 °C	Pth	x,x	kW	Tj = 12 °C	COP	x,x	—

Tj = bivalent temperature	Pth	x,x	kW	Tj = bivalent temperature	COP	x,x	—
Tj = operating limit	Pth	x,x	kW	Tj = 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	kW	Tj = – 7 °C	COP	x,x	—
Tj = 2 °C	Pth	x,x	kW	Tj = 2 °C	COP	x,x	—
Tj = 7 °C	Pth	x,x	kW	Tj = 7 °C	COP	x,x	—
Tj = 12 °C	Pth	x,x	kW	Tj = 12 °C	COP	x,x	—
Tj = bivalent temperature	Pth	x,x	kW	Tj = bivalent temperature	COP	x,x	—
Tj = operating limit	Pth	x,x	kW	Tj = operating limit	COP	x,x	—
Tj = – 15 °C	Pth	x,x	kW	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	kW	cooling	EERcyc	x,x	—
heating	Pcych	x,x	kW	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}	0,01117	kW	cooling	Q_{CE}	474,00	kWh/a

standby mode	P_{SB}	0,01117	kW	heating/Average	Q_{HE}	2647,00	kWh/a
thermostat-off mode	P_{TO}	0.00919/0.02373	kW	heating/Warmer	Q_{HE}	x	kWh/a
crankcase heater mode	P_{CK}	0,00	kW	heating/Colder	Q_{HE}	x	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdoor)	LWA	55/68	dB(A)
staged	N			Global warming potential	GWP	675	kgCO_2 eq.
variable	Y			Rated air flow (indoor/outdoor)	—	5600/560/700/4000	m^3/h