

The technical documentation

1. General description

Models:

SIH-09BIMx3, MV-E21BI2

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	P _{designc}	6.1	kW	cooling	Test SEER	8.52	—
heating/Average	P _{designh}	6.1	kW	heating/Average	SCOP(A)	4.2	—
heating/Warmer	P _{designh}	/	kW	heating/Warmer	SCOP(W)	/	—
heating/Colder	P _{designh}	/	kW	heating/Colder	SCOP(C)	/	—
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}	6.11	kW	T _j = 35 °C	EER	4.84	—
T _j = 30 °C	P _{tc}	4.68	kW	T _j = 30 °C	EER	6.98	—
T _j = 25 °C	P _{tc}	2.86	kW	T _j = 25 °C	EER	10.33	—
T _j = 20 °C	P _{tc}	1.66	kW	T _j = 20 °C	EER	16.38	—
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}	5.42	kW	T _j = -7 °C	COP	2.86	—
T _j = 2 °C	P _{th}	3.19	kW	T _j = 2 °C	COP	4.09	—
T _j = 7 °C	P _{th}	2.08	kW	T _j = 7 °C	COP	5.55	—
T _j = 12 °C	P _{th}	1.32	kW	T _j = 12 °C	COP	6.20	—
T _j = bivalent temperature	P _{th}	5.42	kW	T _j = bivalent temperature	COP	2.86	—
T _j = operating limit	P _{th}	4.75	kW	T _j = operating limit	COP	2.74	—
Bivalent temperature				Operating limit temperature			
heating/Average	T _{biv}	-7	°C	heating/Average	T _{ol}	-10	°C
heating/Warmer	T _{biv}	/	°C	heating/Warmer	T _{ol}	/	°C
heating/Colder	T _{biv}	/	°C	heating/Colder	T _{ol}	/	°C
Power consumption of cycling				Efficiency of cycling			
cooling	P _{cycc}	x,x	kW	cooling	EER _{cycc}	x,x	—
heating	P _{cyhc}	x,x	kW	heating	COP _{cyhc}	x,x	—
Degradation co-efficient cooling (**)	C _{dc}	0.25	—	Degradation co-efficient heating (**)	C _{dh}	0.25	—
Electric power input in power modes other than 'active mode'				Seasonal electricity consumption			
off mode	P _{OFF}	0.01056	kW	cooling	Q _{CE}	250	kWh/a
standby mode	P _{SB}	0.01056	kW	heating/Average	Q _{HE}	2025	kWh/a

thermostat-off mode	P _{TO}	0.00292/0.02392	kW	heating/Warmer	Q _{HE}	/	kWh/a
crankcase heater mode	P _{CK}	0.0	kW	heating/Colder	Q _{HE}	/	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed	N		Sound power level (indoor/outdoor)		LWA	58/68	dB(A)
staged	N		Global warming potential		GWP	675	kgCO ₂ eq.
variable	Y		Rated air flow (indoor/outdoor)		—	610/610/610/3800	m ³ /h