

## The technical documentation

### 1. General description

**Models:**

**SIH-09BIMx4, MV-E28BI2**

**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 <sub>design c</sub>	8.0	kW	cooling	Test SEER	7.21	—
heating/Average	P <sub>design h</sub>	7.2	kW	heating/Average	SCOP(A)	4.2	—
heating/Warmer	P <sub>design h</sub>	/	kW	heating/Warmer	SCOP(W)	/	—
heating/Colder	P <sub>design h</sub>	/	kW	heating/Colder	SCOP(C)	/	—

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	8.05	kW	Tj = 35 °C	EER	3.78	—
Tj = 30 °C	Ptc	5.75	kW	Tj = 30 °C	EER	5.98	—
Tj = 25 °C	Ptc	3.64	kW	Tj = 25 °C	EER	8.91	—
Tj = 20 °C	Ptc	2.89	kW	Tj = 20 °C	EER	12.42	—
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	6.59	kW	Tj = - 7 °C	COP	2.61	—
Tj = 2 °C	Pth	3.84	kW	Tj = 2 °C	COP	4.22	—
Tj = 7 °C	Pth	2.48	kW	Tj = 7 °C	COP	5.53	—
Tj = 12 °C	Pth	2.47	kW	Tj = 12 °C	COP	6.94	—
Tj = bivalent temperature	Pth	6.59	kW	Tj = bivalent temperature	COP	2.61	—
Tj = operating limit	Pth	4.73	kW	Tj = operating limit	COP	2.37	—
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-7	°C	heating/Average	Tol	-10	°C
heating/Warmer	Tbiv	/	°C	heating/Warmer	Tol	/	°C
heating/Colder	Tbiv	/	°C	heating/Colder	Tol	/	°C
Power consumption of cycling				Efficiency of cycling			
cooling	Pcycc	x,x	kW	cooling	EERcyc	x,x	—
heating	Pcyh	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 <sub>OFF</sub>	0.01164	kW	cooling	Q <sub>CE</sub>	388	kWh/a

standby mode	P <sub>SB</sub>	0.01164	kW	heating/Average	Q <sub>HE</sub>	2400	kWh/a
thermostat-off mode	P <sub>TO</sub>	0.00605/0.02839	kW	heating/Warmer	Q <sub>HE</sub>	/	kWh/a
crankcase heater mode	P <sub>CK</sub>	0.0	kW	heating/Colder	Q <sub>HE</sub>	/	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 <sub>2</sub> eq.
variable	Y		Rated air flow (indoor/outdoor)		—	610/610/610/610/3800	m <sup>3</sup> /h