The technical documentation

1．General description

Models:

SIH-09BIMx3, MV-E24BI2

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	7.1	kW	cooling	Test SEER	7.46	—
heating/Average	Pdesignh	6.1	kW	heating/Average	SCOP(A)	4.2	—
heating/Warmer	Pdesignh	/	kW	heating/Warmer	SCOP(W)	/	—
heating/Colder	Pdesignh	/	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 ℃	Ptc	7.11	kW	Tj = 35 ℃	EER	3.90	—
Tj = 30 ℃	Ptc	5.12	kW	Tj = 30 ℃	EER	5.73	—
Tj = 25 ℃	Ptc	3.28	kW	Tj = 25 ℃	EER	8.89	—
Tj = 20 ℃	Ptc	2.08	kW	Tj = 20 ℃	EER	14.65	—
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 ℃	Pth	5.55	kW	Tj = – 7 ℃	COP	2.70	—
Tj = 2 ℃	Pth	3.42	kW	Tj = 2 ℃	COP	4.38	—
Tj = 7 ℃	Pth	2.17	kW	Tj = 7 ℃	COP	5.53	—
Tj = 12 ℃	Pth	1.15	kW	Tj = 12 ℃	COP	5.20	—
Tj = bivalent temperature	Pth	5.52	kW	Tj = bivalent temperature	COP	2.70	—
Tj = operating limit	Pth	4.31	kW	Tj = operating limit	COP	2.69	—
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-7	℃	heating/Average	Tol	-10	℃
heating/Warmer	Tbiv	/	℃	heating/Warmer	Tol	/	℃
heating/Colder	Tbiv	/	℃	heating/Colder	Tol	/	℃
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}	0.00961	kW	cooling	Q_{CE}	333	kWh/a
standby mode	P_{SB}	0.00961	kW	heating/Average	Q_{HE}	2055	kWh/a

thermostat-off mode	P_{TO}	0.00412/0.02312	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