The technical documentation

1. General description

Models:

SIH-09BIMx2, MV-E18BI2

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!

⑤After 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'.				
aaalina	Y			Average	Y			
cooling				(mandatory)				
1 .:	Y			Warmer	Ν			
neating				(if designated)				
				Colder	Ν			
				(if designated)				
Item	symbol	value	unit	Item	symbol	value	unit	
Design load				Seasonal efficiency				
cooling	Pdesignc	5.3	kW	cooling	Test	7.23		
					SEER			
heating/Average	Pdesignh	4.1	kW	heating/Average	SCOP(A)	4.2		
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				Tested energy efficiency ratio (*), at indoor					
temperature 27(19) °C and outdoor				temperature 27(19) °C and outdoor temperature					
temperature Tj			-	Тј					
Tj = 35 °C	Ptc	5.31	kW	Tj = 35 °C	EER	3.63			
Tj = 30 ℃	Ptc	3.86	kW	Tj = 30 ℃	EER	5.51	_		
Tj = 25 °C	Ptc	2.46	kW	Tj = 25 ℃	EER	9.54	_		
Tj = 20 °C	Ptc	1.55	kW	$Tj = 20 \ ^{\circ}C$	EER	12.72	_		
Tested capacity ((*) for hea	ating/Average		Tested coefficient of performance (*)/Average					
season, at indoor	season, at indoor temperature 20 °C and				season, at indoor temperature 20 °C and outdoor				
outdoor temperature Tj				temperature Tj					
Tj = -7 °C	Pth	3.68	kW	$Tj = -7 \ ^{\circ}C$	COP	2.60	_		
$Tj = 2 \ C$	Pth	2.26	kW	$Tj = 2 \ C$	COP	4.36	_		
$Tj = 7 \ ^{\circ}C$	Pth	1.46	kW	$Tj = 7 \ C$	СОР	5.62			
$Tj = 12 \ ^{\circ}C$	Pth	1.27	kW	Tj = 12 ℃	COP	6.00	_		
Tj = bivalent temperature	Pth	3.68	kW	Tj = bivalent temperature	СОР	2.60			
Tj = operating limit	Pth	4.47	kW	Tj = operating limit	СОР	2.55			
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 ℃	Pth	X,X	kW	$Tj = 7 \ ^{\circ}C$	COP	x,x			
$Tj = 12 \ ^{\circ}C$	Pth	X,X	kW	Tj = 12 ℃	COP	x,x			
Tj = bivalent temperature	Pth	X,X	kW	Tj = bivalent temperature	СОР	x,x			
Tj = operating limit	Pth	X,X	kW	Tj = operating limit	СОР	x,x	_		
Tested capacity (*) for heating/Colder season,				Tested coefficient of performance (*)/Colder					
at indoor temperature 20 °C and outdoor				season, at indoor temperature 20 °C and outdoor					
temperature Tj				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	_		
$Tj = 7 \ ^{\circ}C$	Pth	X,X	kW	$Tj = 7 \ C$	COP	x,x			
Tj = 12 ℃	Pth	X,X	kW	Tj = 12 ℃	COP	x,x			
Tj = bivalent temperature	Pth	X,X	kW	Tj = bivalent temperature	СОР	x,x	_		
Tj = operating limit	Pth	x,x	kW	Tj = operating limit	СОР	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}	0.00769	kW	cooling	Q _{CE}	257	kWh/a
standby mode	\mathbf{P}_{SB}	0.00769	kW	heating/Average	$Q_{\rm HE}$	1338	kWh/a
thermostat-off mode	P _{TO}	0.01082/0.01877	kW	heating/Warmer	Q _{HE}	X	kWh/a
crankcase heater mode	P _{CK}	0.0	kW	heating/Colder	$Q_{\rm HE}$	x	kWh/a
Capacity control	(indicate	one of three opti	ons)	Other items			
fixed	N			Sound power level (indoor/outdoor)	LWA	58/64	dB(A)
staged	Ν			Global warming potential	GWP	675	kgCO ₂ eq.
variable	Y			Rated air flow (indoor/outdoor)		610/610/2300	m ³ /h