## The technical documentation

## 1. General description

Models:

SIH-18BIM/X + SOH-18BIM

## 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:
- O According to the directions of Operating Instruction Manual.
- Set the guide vane of air outlet at middle position by hand to achieve maximum air volume.
- 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	Υ			Warmer (if designated)	Υ		
				Colder (if designated)	Y		
Item	symbol	value	uni t	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesig nc	5.3	kW	cooling	Test SEER	7.70	
heating/Avera ge	Pdesig nh	4.2	kW	heating/Avera ge	SCOP(A	4.476	
heating/Warm er	Pdesig nh	4.3	kW	heating/Warm er	SCOP( W)	5.790	
heating/Colde r	Pdesig nh	5.0	kW	heating/Colde r	SCOP(C	3.541	_

Tested capacity (*) for cooling, at indoor				Tested energy efficiency ratio (*), at indoor				
temperature 27(	(19) °C and	d outdoor		temperature 27(19) °C and outdoor				
temperature Tj				temperature Tj				
Tj = 35 °C	Ptc	5.30	kW	Tj = 35 °C	EER	3.45	_	
Tj = 30 °C	Ptc	3.88	kW	Tj = 30 °C	EER	5.46	_	
Tj = 25 °C	Ptc	2.39	kW	Tj = 25 °C	EER	9.26	_	
Tj = 20 °C	Ptc	1.35	kW	Tj = 20 °C	EER	15.27	_	
Tested capacity	(*) for hea	ating/Average	_	Tested coefficient of performance (*)/Average				
season, at indoor temperature 20 °C and				season, at indoor temperature 20 °C and				
outdoor temperature Tj				outdoor temperature Tj				
Tj = − 7 °C	Pth	3.73	kW	Tj = − 7 °C	COP	2.90	_	
Tj = 2 °C	Pth	2.33	kW	Tj = 2 °C	COP	4.41	_	
Tj = 7 °C	Pth	1.52	kW	Tj = 7 °C	COP	5.80	_	
Tj = 12 °C	Pth	1.20	kW	Tj = 12 °C	COP	6.87	_	
Tj = operating limit	Pth	4.25	kW	Tj = operating limit	COP	2.37		
Tj = bivalent temperature	Pth	4.25	kW	Tj = bivalent temperature	COP	2.37	_	
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	4.44	kW	Tj = 2 °C	COP	2.98	_	
Tj = 7 °C	Pth	2.75	kW	Tj = 7 °C	COP	5.45	_	
Tj = 12 °C	Pth	1.20	kW	Tj = 12 °C	COP	6.87	_	
Tj = operating limit	Pth	4.44	kW	Tj = operating limit	COP	2.98	_	
Tj = bivalent temperature	Pth	4.44	kW	Tj = bivalent temperature	СОР	2.98	_	
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	3.08	kW	Tj = - 7 °C	COP	3.16	_	
Tj = 2 °C	Pth	1.84	kW	Tj = 2 °C	COP	4.30	<u> </u>	
Tj = 7 °C	Pth	1.20	kW	Tj = 7 °C	COP	5.50	l —	
Tj = 12 °C	Pth	1.23	kW	Tj = 12 °C	COP	6.95	_	
Tj = operating limit	Pth	3.00	kW	Tj = operating limit	СОР	1.93	_	
Tj = bivalent temperature	Pth	3.47	kW	Tj = bivalent temperature	СОР	2.48	_	
Tj = - 15 °C	Pth	3.73	kW	Tj = - 15 °C	COP	2.01		

Bivalent temperature				Operating limit temperature				
heating/Avera ge	Tbiv	-10	°C	heating/Avera ge	Tol	-10	°C	
heating/Warm er	Tbiv	2	°C	heating/Warm er	Tol	2	°C	
heating/Colde r	Tbiv	-10	°C	heating/Colde r	Tol	-22	°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	Poff	0.00302	kW	cooling	Qce	241	kWh/ a	
standby mode	$P_{SB}$	0.00302	kW	heating/Avera ge	QHE	1314	kWh/ a	
thermostat-off mode	Рто	0.00449/0.013 83	kW	heating/Warm er	QHE	1040	kWh/ a	
crankcase heater mode	Рск	0.0	kW	heating/Colde r	QHE	2965	kWh/ a	
Capacity control (indicate one of three options)				Other items				
fixed	N			Sound power level (indoor/outdo or)	LWA	(60/65)	dB(A)	
staged	N			Global warming potential	GWP	675	kgCO 2 eq.	
variable	Y			Rated air flow (indoor/outdo or)		(1000/2200	m³/h	