The technical documentation

1. General description

Models:

SIH+SOH-09BIT

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.
- 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)	Υ		
heating	Y			Warmer (if designated)	Υ		
				Colder (if designated)	Υ		
Item	symbol	value	uni t	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesig nc	2,7	kW	cooling	Test SEER	7.5	_
heating/Avera ge	Pdesig nh	2.7	kW	heating/Avera ge	SCOP(A	4.2	
heating/Warm er	Pdesig nh	3.0	kW	heating/Warm er	SCOP(W)	5.3	_

heating/Colde	Pdesig nh	4,0	kW	heating/Colde	SCOP(C	3.4	<u> </u>	
Tested capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor				Tested energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor				
temperature Tj				temperature Tj Tj = 35 °C EER 3.89 —				
Tj = 35 °C	Ptc	2.79	kW	Tj = 35 °C	EER			
Tj = 30 °C	Ptc	2.06	kW	Tj = 30 °C	EER	5.82		
Tj = 25 °C	Ptc	1.27	kW	Tj = 25 °C	EER	9.35		
Tj = 20 °C	Ptc	0.77	kW	Tj = 20 °C	EER	11.87		
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	2.43	kW	Tj = − 7 °C	COP	3.00	_	
Tj = 2 °C	Pth	1.40	kW	Tj = 2 °C	COP	4.16	_	
Tj = 7 °C	Pth	0.95	kW	Tj = 7 °C	COP	5.12		
Tj = 12 °C	Pth	0.97	kW	Tj = 12 °C	COP	6.44	_	
Tj = operating limit	Pth	2.82	kW	Tj = operating limit	COP	2.70	_	
Tj = bivalent temperature	Pth	2.82	kW	Tj = bivalent temperature	СОР	2.70	_	
Tested capacity	/ (*) for hea	ating/Warmer sea	ison,	Tested coefficient of performance (*)/Warmer				
	at indoor temperature 20 °C and outdoor				season, at indoor temperature 20 °C and			
temperature Tj				outdoor temperature Tj				
Tj = 2 °C	Pth	3,10	kW	Tj = 2 °C	COP	2,66	_	
Tj = 7 °C	Pth	1.92	kW	Tj = 7 °C	COP	5,18	_	
Tj = 12 °C	Pth	0.97	kW	Tj = 12 °C	COP	6.44		
Tj = operating limit	Pth	3.10	kW	Tj = operating limit	COP	2,68	_	
Tj = bivalent temperature	Pth	3.10	kW	Tj = bivalent temperature	СОР	2,68	_	
Tested capacity	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				
temperature Tj				outdoor temperature Tj				
Tj = − 7 °C	Pth	2.43	kW	Tj = − 7 °C	COP	3.00	_	
Tj = 2 °C	Pth	1.40	kW	Tj = 2 °C	COP	4.16	_	
Tj = 7 °C	Pth	0.95	kW	Tj = 7 °C	COP	5.12	_	
Tj = 12 °C	Pth	0.97	kW	Tj = 12 °C	COP	6.44	_	
Tj = operating limit	Pth	2.1	kW	Tj = operating limit	COP	1.88		
Tj = bivalent temperature	Pth	2.82	kW	Tj = bivalent temperature	СОР	2,70	_	

Tj = − 15 °C	Pth	2.58	kW	Tj = − 15 °C	COP	2,18	_	
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 consump	otion of cyc	cling		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	0.00194	kW	cooling	Qce	126	kWh/ a	
standby mode	P _{SB}	0.00194	kW	heating/Avera ge	Q _{HE}	897	kWh/ a	
thermostat-off mode	Рто	0.005210/0.22 310	kW	heating/Warm er	QHE	792	kWh/ a	
crankcase heater mode	Рск	0.0	kW	heating/Colde r	Q _{HE}	2470	kWh/ a	
Capacity contro	Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdo or)	LWA	(54/61)	dB(A)	
staged	N			Global warming potential	GWP	675	kgCO 2 eq.	
variable	Υ			Rated air flow (indoor/outdo or)	_	(610/1950)	m³/h	