

The technical documentation

1. General description

Models:

SIH+SOH-13BIT

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

Appendix I: information according to clause 3 of NO 206/2012 ANNEX I , for air conditioners, except single duct and double duct air conditioners

Function (indicate if present)				Only for heating mode, if applicable			
Cooling	Y			Average(mandatory)		Y	
Heating	Y			Warmer(if designed)		Y	
				Colder(if designed)		Y	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Design load				Seasonal efficiency			
Cooling	Pdesignc	3.5	kW	Cooling	SEER	7.1	—
Heating/average	Pdesignh	3.2	kW	Heating/average	SCOP/A	4.1	—
Heating/warmer	Pdesignh	3.3	kW	Heating/warmer	SCOP/W	5.2	—
Heating/colder	Pdesignh	4.5	kW	Heating/colder	SCOP/C	3.1	—
Declared capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj				Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Tj=35°C	Pdc	3.51	kW	Tj=35°C	EERd	3.65	—

Tj=30°C	Pdc	2.47	kW	Tj=30°C	EERd	5.35	—
Tj=25°C	Pdc	1.57	kW	Tj=25°C	EERd	8.43	—
Tj=20°C	Pdc	1.20	kW	Tj=20°C	EERd	12.31	—
Declared capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj=-7°C	Pdh	2.87	kW	Tj=-7°C	COPd	2.55	—
Tj=2°C	Pdh	1.69	kW	Tj=2°C	COPd	4.13	—
Tj=7°C	Pdh	1.11	kW	Tj=7°C	COPd	5.29	—
Tj=12°C	Pdh	1.18	kW	Tj=12°C	COPd	6.53	—
Tj=operating limit	Pdh	2.96	kW	Tj=operating limit	COPd	2.48	—
Tj=bivalent temperature	Pdh	2.87	kW	Tj=bivalent temperature	COPd	2.55	—

Function (indicate if present)				Only for heating mode, if applicable			
Cooling	Y			Average(mandatory)	Y		
Heating	Y			Warmer(if designed)	Y		
				Colder(if designed)	Y		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Declared capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj=2°C	Pdh	3.31	kW	Tj=2°C	COPd	2.64	—
Tj=7°C	Pdh	2.11	kW	Tj=7°C	COPd	5.01	—
Tj=12°C	Pdh	1.18	kW	Tj=12°C	COPd	6.53	—
Tj=operating limit	Pdh	3.31	kW	Tj=operating limit	COPd	2.64	—
Tj=bivalent temperature	Pdh	3.31	kW	Tj=bivalent temperature	COPd	2.64	—
Declared capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20 °C and outdoor temperature Tj			

T _j =-7°C	P _{dh}	2.87	kW	T _j =-7°C	COP _d	2.55	—
T _j =2°C	P _{dh}	1.69	kW	T _j =2°C	COP _d	4.13	—
T _j =7°C	P _{dh}	1.11	kW	T _j =7°C	C-OP _d	5.29	—
T _j =12°C	P _{dh}	1.18	kW	T _j =12°C	COP _d	6.53	—
T _j =operating limit	P _{dh}	2.32	kW	T _j =operating limit	COP _d	1.79	—
T _j =bivalent temperature	P _{dh}	3.01	kW	T _j =bivalent temperature	COP _d	2.09	—
T _j =-15°C	P _{dh}	2.69	kW	T _j =-15°C	COP _d	1.81	—
Bivalent temperature				Operating limit temperature			
Heating/Average	T _{biv}	-7	°C	Heating/Average	T _{ol}	-10	°C
Heating/Warmer	T _{biv}	2	°C	Heating/Warmer	T _{ol}	2	°C
Heating/Colder	T _{biv}	-9	°C	Heating/Colder	T _{ol}	-22	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	P _{cycc}	x,x	kW	for cooling	EER _{cyc}	x,x	—
for heating	P _{cyh}	x,x	kW	for heating	COP _{cyh}	x,x	—
Degradation co-efficient cooling (**)	C _{dc}	0.25	—	Degradation co-efficient heating (**)	C _{dh}	0.25	—

Function (indicate if present)				Only for heating mode, if applicable			
Cooling	Y			Average(mandatory)	Y		
Heating	Y			Warmer(if designed)	Y		
				Colder(if designed)	Y		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Electric power input in power modes other than ‘active mode’				Annual electricity consumption			
Off mode	P _{OFF}	0.00154	kW	Cooling	Q _{CE}	173	kWh/a
Standby mode	P _{SB}	0.00154	kW	Heating/Average	Q _{HE}	1093	kWh/a
Thermostat-off	P _{TO}	0.00614/0.024	kW	Heating/Warmer	Q _{HE}	888	kWh/a

mode		70					
Crankcase heater mode	P _{CK}	0	kW	Heating/Colder	Q _{HE}	3048	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdoor)	L _{WA}	57/63	dB(A)
staged	N			Global warming potential	GWP	675	kgCO ₂ eq.
variable	Y			Rated air flow (indoor/outdoor)	—	700/1950	m ³ /h