

The technical documentation

1. General description

Models:

SIH+SOH-24BIT

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

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	P _{design c}	7.0	kW	Cooling	SEER	6.54	—
Heating/average	P _{design h}	6.4	kW	Heating/average	SCOP/A	4.06	—
Heating/warmer	P _{design h}	6.9	kW	Heating/warmer	SCOP/W	5.10	—
Heating/colder	P _{design h}	6.3	kW	Heating/colder	SCOP/C	3.35	—
Declared capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature T _j				Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature T _j			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit

Tj=35°C	Pdc	7.03	kW	Tj=35°C	EERd	3.60	—
Tj=30°C	Pdc	5.09	kW	Tj=30°C	EERd	5.20	—
Tj=25°C	Pdc	3.21	kW	Tj=25°C	EERd	7.34	—
Tj=20°C	Pdc	2.68	kW	Tj=20°C	EERd	11.76	—
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	5.79	kW	Tj=-7°C	COPd	2.62	—
Tj=2°C	Pdh	3.61	kW	Tj=2°C	COPd	4.21	—
Tj=7°C	Pdh	2.21	kW	Tj=7°C	COPd	4.93	—
Tj=12°C	Pdh	1.90	kW	Tj=12°C	COPd	5.80	—
Tj=operating limit	Pdh	6.24	kW	Tj=operating limit	COPd	1.79	—
Tj=bivalent temperature	Pdh	5.79	kW	Tj=bivalent temperature	COPd	2.62	—

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	7.23	kW	Tj=2°C	COPd	2.64	—
Tj=7°C	Pdh	4.41	kW	Tj=7°C	COPd	4.91	—
Tj=12°C	Pdh	2.02	kW	Tj=12°C	COPd	5.85	—
Tj=operating limit	Pdh	7.23	kW	Tj=operating limit	COPd	2.64	—
Tj=bivalent temperature	Pdh	7.23	kW	Tj=bivalent temperature	COPd	2.64	—
Declared capacity (*) for heating/Colder season, at indoor temperature 20 °C and				Declared coefficient of performance(*)/Colder season, at indoor temperature 20 °C and outdoor			

outdoor temperature Tj				temperature Tj			
Tj=-7°C	Pdh	3.87	kW	Tj=-7°C	COPd	2.97	—
Tj=2°C	Pdh	2.33	kW	Tj=2°C	COPd	4.15	—
Tj=7°C	Pdh	1.73	kW	Tj=7°C	C-OPd	4.66	—
Tj=12°C	Pdh	1.82	kW	Tj=12°C	COPd	5.61	—
Tj=operating limit	Pdh	5.99	kW	Tj=operating limit	COPd	1.79	—
Tj=bivalent temperature	Pdh	6.56	kW	Tj=bivalent temperature	COPd	1.84	—
Tj=-15°C	Pdh	6.56	kW	Tj=-15°C	COPd	1.84	—
Bivalent temperature				Operating limit temperature			
Heating/Average	Tbiv	-7	°C	Heating/Average	Tol	-10	°C
Heating/Warmer	Tbiv	2	°C	Heating/Warmer	Tol	2	°C
Heating/Colder	Tbiv	-15	°C	Heating/Colder	Tol	-22	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	x,x	kW	for cooling	EERcyc	x,x	—
for heating	Pcyh	x,x	kW	for heating	COPcyc	x,x	—
Degradation co-efficient cooling (**)	Cdc	0.25	—	Degradation co-efficient heating (**)	Cdh	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	Symb ol	Value	Unit	Item	Symb ol	Value	Unit
Electric power input in power modes other than 'active mode'				Annual electricity consumption			

Off mode	P _{OFF}	0.00547	k W	Cooling	Q _{CE}	374	kWh/ a
Standby mode	P _{SB}	0.00547	k W	Heating/Average	Q _{HE}	2205	kWh/ a
Thermostat-off mode	P _{TO}	0.00235/0.01027	k W	Heating/Warmer	Q _{HE}	1893	kWh/ a
Crankcase heater mode	P _{CK}	0	k W	Heating/Colder	Q _{HE}	3942	kWh/ a
Capacity control (indicate one of three options)				Other items			
fixed	N		Sound power level (indoor/outdoor)		L _{WA}	63/67	dB(A)
staged	N		Global warming potential		GWP	675	kgC O ₂ eq.
variable	Y		Rated air flow (indoor/outdoor)		—	1250/3200	m ³ /h

7. Additional part