

The technical documentation

1. General description

Models:

SIH-24BIM/X + SOH-24BIM

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	Pdesignc	7.1	kW	Cooling	SEER	7.0	—
Heating/average	Pdesignh	5.6	kW	Heating/average	SCOP/A	4.3	—
Heating/warmer	Pdesignh	5.7	kW	Heating/warmer	SCOP/W	5.5	—
Heating/colder	Pdesignh	7.1	kW	Heating/colder	SCOP/C	3.4	—
Tested capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj				Tested 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	7.11	kW	Tj=35°C	EERd	3.50	—

Tj=30°C	Pdc	5.10	kW	Tj=30°C	EERd	5.39	—
Tj=25°C	Pdc	3.17	kW	Tj=25°C	EERd	8.19	—
Tj=20°C	Pdc	2.42	kW	Tj=20°C	EERd	12.79	—
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	Pdh	5.02	kW	Tj=-7°C	COPd	2.65	—
Tj=2°C	Pdh	2.89	kW	Tj=2°C	COPd	4.25	—
Tj=7°C	Pdh	1.88	kW	Tj=7°C	COPd	5.66	—
Tj=12°C	Pdh	1.45	kW	Tj=12°C	COPd	7.12	—
Tj=operating limit	Pdh	5.60	kW	Tj=operating limit	COPd	2.14	—
Tj=bivalent temperature	Pdh	5.60	kW	Tj=bivalent temperature	COPd	2.14	—

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
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	Pdh	5.76	kW	Tj=2°C	COPd	2.60	—
Tj=7°C	Pdh	3.42	kW	Tj=7°C	COPd	5.03	—
Tj=12°C	Pdh	2.03	kW	Tj=12°C	COPd	7.12	—
Tj=operating limit	Pdh	5.76	kW	Tj=operating limit	COPd	2.60	—
Tj=bivalent temperature	Pdh	5.76	kW	Tj=bivalent temperature	COPd	2.60	—

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	Pdh	4.29	kW	Tj=-7°C	COPd	2.49	—
Tj=2°C	Pdh	2.49	kW	Tj=2°C	COPd	4.49	—
Tj=7°C	Pdh	1.84	kW	Tj=7°C	C-OPd	5.51	—
Tj=12°C	Pdh	1.71	kW	Tj=12°C	COPd	7.05	—
Tj=operating limit	Pdh	5.21	kW	Tj=operating limit	COPd	1.88	—
Tj=bivalent temperature	Pdh	5.87	kW	Tj=bivalent temperature	COPd	1.95	—
Tj=-15°C	Pdh	5.87	kW	Tj=-15°C	COPd	1.95	—
Bivalent temperature				Operating limit temperature			
Heating/Average	Tbiv	-10	°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 coefficient cooling (**)	Cdc	0.25	—	Degradation coefficient 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	Symbol	Value	Unit	Item	Symbol	Value	Unit
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
Off mode	P _{OFF}	0.00561	kW	Cooling	Q _{CE}	355	kWh/

							a
Standby mode	P_{SB}	0.00561	kW	Heating/Average	Q_{HE}	1822	kWh/a
Thermostat-off mode	P_{TO}	0.00149/0.01388	kW	Heating/Warmer	Q_{HE}	1451	kWh/a
Crankcase heater mode	P_{CK}	0	kW	Heating/Colder	Q_{HE}	4384	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdoor)	L_{WA}	65/70	dB(A)
staged	N			Global warming potential	GWP	675	kgCO ₂ eq.
variable	Y			Rated air flow (indoor/outdoor)	—	1000/3600	m ³ /h