

The technical documentation

1. General description

Models:

SIH-24BIK,
SOH-24BIK

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)	N		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Design load				Seasonal efficiency			
Cooling	Pdesignc	6.2	kW	Cooling	SEER	6.841	—
Heating/average	Pdesignh	4.7	kW	Heating/average	SCOP/A	4.079	—
Heating/warmer	Pdesignh	4.7	kW	Heating/warmer	SCOP/W	5.20	—
Heating/colder	Pdesignh	-	kW	Heating/colder	SCOP/C	-	—
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	6.28	kW	Tj=35°C	EERd	3.58	—
Tj=30°C	Pdc	4.81	kW	Tj=30°C	EERd	4.74	—
Tj=25°C	Pdc	2.91	kW	Tj=25°C	EERd	8.84	—
Tj=20°C	Pdc	1.75	kW	Tj=20°C	EERd	11.96	—

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	4.08	kW	Tj=-7°C	COPd	2.62	—
Tj=2°C	Pdh	2.57	kW	Tj=2°C	COPd	4.06	—
Tj=7°C	Pdh	1.65	kW	Tj=7°C	COPd	5.19	—
Tj=12°C	Pdh	1.48	kW	Tj=12°C	COPd	6.34	—
Tj=operating limit	Pdh	4.86	kW	Tj=operating limit	COPd	2.34	—
Tj=bivalent temperature	Pdh	4.86	kW	Tj=bivalent temperature	COPd	2.34	—
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	4.72	kW	Tj=2°C	COPd	2.90	—
Tj=7°C	Pdh	3.09	kW	Tj=7°C	COPd	4.86	—
Tj=12°C	Pdh	1.48	kW	Tj=12°C	COPd	6.34	—
Tj=operating limit	Pdh	4.72	kW	Tj=operating limit	COPd	2.90	—
Tj=bivalent temperature	Pdh	4.72	kW	Tj=bivalent temperature	COPd	2.90	—
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	-	kW	Tj=-7°C	COPd	-	—
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	—
Tj=7°C	Pdh	-	kW	Tj=7°C	C-OPd	-	—
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	—
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	—
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	—

T _j =-15°C	P _{dh}	-	kW	T _j =-15°C	COP _d	-	—
Bivalent temperature				Operating limit temperature			
Heating/Average	T _{biv}	-10	°C	Heating/Average	T _{ol}	-10	°C
Heating/Warmer	T _{biv}	2	°C	Heating/Warmer	T _{ol}	2	°C
Heating/Colder	T _{biv}	-	°C	Heating/Colder	T _{ol}	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	P _{cycc}	x,x	kW	for cooling	EER _{cycc}	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	—

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}	0.00602	kW	Cooling	Q _{CE}	317	kWh/a
Standby mode	P _{SB}	0.00602	kW	Heating/Average	Q _{HE}	1613	kWh/a
Thermostat-off mode	P _{TO}	0.00609/0.02291	kW	Heating/Warmer	Q _{HE}	1265	kWh/a
Crankcase heater mode	P _{CK}	0	kW	Heating/Colder	Q _{HE}	-	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed		N		Sound power level (indoor/outdoor)	L _{WA}	61/67	dB(A)
staged		N		Global warming potential	GWP	675	kgCO ₂ eq.
variable		Y		Rated air flow (indoor/outdoor)	—	1100/2800	m ³ /h