

The technical documentation

1. General description

Models:

SIH-SOH-24BIR

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	6.8	—
Heating/average	Pdesignh	4.7	kW	Heating/average	SCOP/A	4.0	—
Heating/warmer	Pdesignh	4.7	kW	Heating/warmer	SCOP/W	5.1	—
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	6.20	kW	Tj=35°C	EERd	3.39	—
Tj=30°C	Pdc	4.37	kW	Tj=30°C	EERd	4.98	—
Tj=25°C	Pdc	2.84	kW	Tj=25°C	EERd	7.56	—
Tj=20°C	Pdc	1.70	kW	Tj=20°C	EERd	15.41	—

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	4.17	kW	Tj=-7°C	COPd	2.53	—
Tj=2°C	Pdh	2.62	kW	Tj=2°C	COPd	3.91	—
Tj=7°C	Pdh	1.62	kW	Tj=7°C	COPd	5.34	—
Tj=12°C	Pdh	1.51	kW	Tj=12°C	COPd	6.49	—
Tj=operating limit	Pdh	4.59	kW	Tj=operating limit	COPd	2.11	—
Tj=bivalent temperature	Pdh	4.17	kW	Tj=bivalent temperature	COPd	2.53	—
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	4.87	kW	Tj=2°C	COPd	2.59	—
Tj=7°C	Pdh	3.00	kW	Tj=7°C	COPd	4.59	—
Tj=12°C	Pdh	1.51	kW	Tj=12°C	COPd	6.49	—
Tj=operating limit	Pdh	4.87	kW	Tj=operating limit	COPd	2.59	—
Tj=bivalent temperature	Pdh	4.87	kW	Tj=bivalent temperature	COPd	2.59	—
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	COPd	-	—
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	-	—

Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
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	-	°C	Heating/Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	x,x	kW	for cooling	EERcyc	x,x	-
for heating	Pcych	x,x	kW	for heating	COPcyc	x,x	-
Degradation coefficient cooling (**)	Cdc	0.25	—	Degradation coefficient heating (**)	Cdh	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}	0.00588	kW	Cooling	Q _{CE}	318	kWh/a
Standby mode	P _{SB}	0.00588	kW	Heating/Average	Q _{HE}	1643	kWh/a
Thermostat-off mode	P _{TO}	0.00595/0.01281	kW	Heating/Warmer	Q _{HE}	1289	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}	60/65	dB(A)
staged	N			Global warming potential	GWP	675	kgCO ₂ eq.
variable	Y			Rated air flow (indoor/outdoor)	—	900/2800	m ³ /h