## The technical documentation

### 1. General description

#### Models:

SIH-09BIM/X + SOH-09BIM

### 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:

- 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(mano	datory)	Y			
Heating	Y			Warmer(if des	igned)	Y			
	I			Colder(if desi	gned)	Y			
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit		
De	Design load				Seasonal efficiency				
Cooling	Pdesignc	2.7	kW	Cooling	SEER	8.512			
Heating/average	Pdesignh	2.7	kW	Heating/average	SCOP/A	4.613	_		
Heating/warmer	Pdesignh	2.9	kW	Heating/warmer	SCOP/W	5.772			
Heating/colder	Pdesignh	4.0	kW	Heating/colder	SCOP/C	3.534			
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					
ltem	Symbol	Value	Unit	Item Symbol		Value	Unit		
Tj=35°C	Pdc	2.72	kW	Tj=35°C	EERd	4.03	_		
Tj=30°C	Pdc	1.97	kW	Tj=30°C	EERd	6.18			
Tj=25°C	Pdc	1.27	kW	Tj=25°C	EERd	10.90	—		
Tj=20°C	Pdc	0.70	kW	Tj=20°C	EERd	15.50	—		

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	2.41	kW	Tj=-7°C COPd		3.05				
Tj=2°C	Pdh	1.43	kW	Tj=2°	°C	COPd	4.51	_		
Tj=7°C	Pdh	0.94	kW	Tj=7°	°C	COPd	5.95			
Tj=12°C	Pdh	0.92	kW	Tj=12	2°C	COPd	7.40			
Tj=operating limit	Pdh	2.73	kW		Tj=operating limit COPd 2.59		2.59			
Tj=bivalent temperature	Pdh	2.73	kW	Tj=biva tempera		COPd	2.59	_		
Functi	on (indicate i	f prese	nt)			Only for hea	ting mode, if ap	plicable		
Cooling		Y	,			Average(ma	Y			
Heating		Y	,		Warmer(if designed)			Y		
						Colder(if de	Y			
Item	Symbol	Va	alue	Unit	I	Item Sym		Value	Unit	
Tested capacity (*) for heating/Warmer season, temperature 20 °C and outdoor temperatu					Tested coefficient of performance(*)∧ season, at indoor temperature 20 ° outdoor temperature Tj			20 °C ar		
Tj=2°C	Pdh	2	.96	kW	T	j=2°C	COPd	2.82	_	
Tj=7°C	Pdh	1.	.84	kW	T	j=7°C	COPd	5.25	_	
Tj=12°C	Pdh	0	.92	kW	Tj	=12°C	COPd	7.40	_	
Tj=operating limit	Pdh	2.	.96	kW	-	perating limit	COPd	2.82	_	
Tj=bivalent temperature	Pdh	2.	.96	kW	-	oivalent perature	COPd	2.82		
Tested capacity (*) for heating/Colder season, temperature 20 °C and outdoor temperatu					Tested coefficient of performance(*)/Cold season, at indoor temperature 20 °C and outdoor temperature Tj					
Tj=-7°C	Pdh	2	.41	kW	Tj	=-7°C	COPd	3.05	-	
Tj=2°C	Pdh	1.	.43	kW	T	j=2°C	COPd	4.51	_	
Tj=7°C	Pdh	0	.94	kW	T	j=7°C	COPd	5.95	_	
Tj=12°C	Pdh	0.	.92	kW	Tj	=12°C	COPd	7.40	_	
Tj=operating limit	Pdh	2	.00	kW	Tj=o	perating	COPd	1.95		

					limit							
Tj=bivalent temperature		Pdh	2.73	kW	Tj=bivalent temperature	С	COPd		)			
Tj=-15°C		Pdh	2.41	kW	Tj=-15°C	C	OPd	2.06	3 —			
Bivalent temperature					Operating limit temperature							
Heating/Avera	ge	Tbiv	-10	-10 °C Heating/Average Tol		Tol	-10	°C				
Heating/Warm	er	Tbiv	2	°C	Heating/War	mer	Tol 2		°C			
Heating/Colde	ər	Tbiv	-10	°C	Heating/Col	der	Tol -22		°C			
(	Cycling interval capacity					Cycling interval efficiency						
for cooling		Pcycc	x,x	kW	for cooling	g E	ERcyc x,>					
for heating		Pcych	x,x	kW	for heating	g C	COPcyc	x,x				
Degradation c efficient cooling		Cdc	0.25		Degradation efficient heat (**)		Cdh	0.25	5 —			
Fun	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			
ltem	Symbol		Value Unit Item Symb		Symbol	Value		Unit				
Electric powe	Electric power input in power modes other than 'active mode'					Annual electricity consumption						
Off mode	$P_{OFF}$		0.0022	kW	Cooling	Q <sub>CE</sub>	111		kWh/a			
Standby mode	P <sub>SB</sub>		0.0022	kW	Heating/Average	Q <sub>HE</sub>	819		kWh/a			
Thermostat-off mode	Ρτο	0.0	05/0.0136	kW	Heating/Warmer	Q <sub>HE</sub>	703		kWh/a			
Crankcase heater mode	Рск		0	kW	Heating/Colder	Q <sub>HE</sub>	2377	,	kWh/a			
Capacity con	Capacity control (indicate one of three options)					Other items						
fixed	N				Sound power level (indoor/outdoor)	L <sub>WA</sub> 58/6		1	dB(A)			
staged	Ν				Global warming potential	GWP 67		5	kgCO <sub>2</sub> eq.			
variable	Y			Rated air flow	— 610/1		950	m <sup>3</sup> /h				