

The technical documentation

1. General description

Models:

ASP-09BI

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

Information requirements

(the number of decimals in the box indicates the precision of reporting)

Information to identify the model(s) to which the information relates to:

Function (indicate to which function information applies)				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
cooling		Y		Average (mandatory)		Y	
heating		Y		Warmer (if designated)		Y	
				Colder (if designated)		Y	
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	P _{design c}	2.7	kW	cooling	Test SEER	7.40	—
heating/Average	P _{design h}	2.6	kW	heating/Average	SCOP(A)	4.08	—
heating/Warmer	P _{design h}	2.8	kW	heating/Warmer	SCOP(W)	5.35	—
heating/Colder	P _{design h}	—	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			
Tj = 35 °C	Ptc	2.77	k W	Tj = 35 °C	EER	3.77	—
Tj = 30 °C	Ptc	1.92	k W	Tj = 30 °C	EER	5.58	—
Tj = 25 °C	Ptc	1.29	k W	Tj = 25 °C	EER	9.44	—
Tj = 20 °C	Ptc	0.77	k W	Tj = 20 °C	EER	14.37	—
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	Pth	2.29	k W	Tj = - 7 °C	COP	2.68	—
Tj = 2 °C	Pth	1.46	k W	Tj = 2 °C	COP	3.98	—
Tj = 7 °C	Pth	0.92	k W	Tj = 7 °C	COP	5.09	—
Tj = 12 °C	Pth	0.86	k W	Tj = 12 °C	COP	6.99	—
Tj = operating limit	Pth	2.43	k W	Tj = operating limit	COP	1.94	—
Tj = bivalent temperature	Pth	2.51	k W	Tj = bivalent temperature	COP	3.14	—
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	Pth	2.93	k W	Tj = 2 °C	COP	2.53	—
Tj = 7 °C	Pth	1.8	k W	Tj = 7 °C	COP	4.66	—
Tj = 12 °C	Pth	0.86	k W	Tj = 12 °C	COP	6.99	—
Tj = operating limit	Pth	2.93	k W	Tj = operating limit	COP	2.53	—
Tj = bivalent temperature	Pth	2.93	k W	Tj = bivalent temperature	COP	2.53	—
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			

T _j = - 7 °C	P _{th}	—	k W	T _j = - 7 °C	COP	—	—
T _j = 2 °C	P _{th}	—	k W	T _j = 2 °C	COP	—	—
T _j = 7 °C	P _{th}	—	k W	T _j = 7 °C	COP	—	—
T _j = 12 °C	P _{th}	—	k W	T _j = 12 °C	COP	—	—
T _j = operating limit	P _{th}	—	k W	T _j = operating limit	COP	—	—
T _j = bivalent temperature	P _{th}	—	k W	T _j = bivalent temperature	COP	—	—
T _j = - 15 °C	P _{th}	--	k W	T _j = - 15 °C	COP	--	—
Bivalent temperature				Operating limit temperature			
heating/Average	T _{biv}	-8	°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
Power consumption of cycling				Efficiency of cycling			
cooling	P _{cycc}	x,x	k W	cooling	EER _{cyc}	x,x	—
heating	P _{ych}	x,x	k W	heating	COP _{cyc}	x,x	—
Degradation co-efficient cooling (**)	C _{dc}	0.25	—	Degradation co-efficient heating (**)	C _{dh}	0.25	—
Electric power input in power modes other than 'active mode'				Seasonal electricity consumption			
off mode	P _{OFF}	0.004274	k W	cooling	Q _{CE}	128	kWh/ a
standby mode	P _{SB}	0.004274	k W	heating/Average	Q _{HE}	893	kWh/ a
thermostat-off mode	P _{TO}	0.003993/0.0120 64	k W	heating/Warmer	Q _{HE}	733	kWh/ a
crankcase heater mode	P _{CK}	0	k W	heating/Colder	Q _{HE}	/	kWh/ a
Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level	LWA	50/60	dB(A)

		(indoor/outdoor)			
staged	N	Global warming potential	GWP	675	kgCO ₂ eq.
variable	Y	Rated air flow (indoor/outdoor)	—	500/1600	m ³ /h