The technical documentation

1. General description

Models:

ASH-24BIS2/W

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

Appendix I: information according to clause 3 of NO 206/2012 ANNEX Ⅰ, for air conditioners，except single duct and double duct air conditioners

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	7.0	kW	Cooling	SEER	6.62	—
Heating/average	Pdesignh	7.0	kW	Heating/average	SCOP/A	4.39	—
Heating/warmer	Pdesignh	7.0	kW	Heating/warmer	SCOP/W	5.45	—
Heating/colder	Pdesignh	7.0	kW	Heating/colder	SCOP/C	3.84	—
Declared capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj				Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Tj=35℃	Pdc	7.23	kW	Tj=35℃	EERd	3.78	—

Tj=30℃	Pdc	5.01	kW	Tj=30℃	EERd	4.83	—
Tj=25℃	Pdc	3.25	kW	Tj=25℃	EERd	7.75	—
Tj=20℃	Pdc	2.11	kW	Tj=20℃	EERd	11.85	—
Declared capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj=-7℃	Pdh	6.32	kW	Tj=-7℃	COPd	2.91	—
Tj=2℃	Pdh	3.78	kW	Tj=2℃	COPd	4.39	—
Tj=7℃	Pdh	2.45	kW	Tj=7℃	COPd	5.60	—
Tj=12℃	Pdh	1.85	kW	Tj=12℃	COPd	6.26	—
Tj=operating limit	Pdh	5.76	kW	Tj=operating limit	COPd	2.53	—
Tj=bivalent temperature	Pdh	6.32	kW	Tj=bivalent temperature	COPd	2.91	—

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
Declared capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj=2℃	Pdh	7.56	kW	Tj=2℃	COPd	2.48	—
Tj=7℃	Pdh	4.48	kW	Tj=7℃	COPd	5.28	—
Tj=12℃	Pdh	1.87	kW	Tj=12℃	COPd	6.36	—
Tj=operating limit	Pdh	7.56	kW	Tj=operating limit	COPd	2.48	—

Tj=bivalent temperature	Pdh	7.56	kW	Tj=bivalent temperature	COPd	2.48	—
Declared capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj=-7℃	Pdh	4.27	kW	Tj=-7℃	COPd	3.31	—
Tj=2℃	Pdh	2.67	kW	Tj=2℃	COPd	4.72	—
Tj=7℃	Pdh	1.73	kW	Tj=7℃	C-OPd	5.22	—
Tj=12℃	Pdh	1.86	kW	Tj=12℃	COPd	6.35	—
Tj=operating limit	Pdh	5.18	kW	Tj=operating limit	COPd	1.70	—
Tj=bivalent temperature	Pdh	6.05	kW	Tj=bivalent temperature	COPd	2.30	—
Tj=-15℃	Pdh	6.05	kW	Tj=-15℃	COPd	2.30	—
Bivalent temperature				Operating limit temperature			
Heating/Average	Tbiv	-7	℃	Heating/Average	Tol	-10	℃
Heating/Warmer	Tbiv	2	℃	Heating/Warmer	Tol	2	℃
Heating/Colder	Tbiv	-15	℃	Heating/Colder	Tol	-22	℃
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 co-efficient cooling（**）	Cdc	0.25	—	Degradation co-efficient 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}	0.00601	kW	Cooling	Q_{CE}	370	kWh/a
Standby mode	P_{SB}	0.00601	kW	Heating/Average	Q_{HE}	2232	kWh/a
Thermostat-off mode	P_{TO}	0.00295/0.01382	kW	Heating/Warmer	Q_{HE}	1797	kWh/a
Crankcase heater mode	P_{CK}	0	kW	Heating/Colder	Q_{HE}	3832	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdoor)	L_{WA}	64/69	dB(A)
staged	N			Global warming potential	GWP	675	$kgCO_2$ eq.
variable	Y			Rated air flow (indoor/outdoor)	—	1200/4000	m^3/h
Contact details for obtaining more information on the setting of the unit				**Gree Electric Appliances Inc. of Zhuhai** **Jinji West Road, Qianshan, Zhuhai, Guangdong 519070, P.R.China** **Email：joannani@gree.com.cn**			

(*) For staged capacity units, two values divided by a slash ('/') will be declared in each box in the section 'Declared capacity of the unit' and 'declared EER/COP' of the unit.

(**) If default Cd = 0,25 is chosen then (results from) cycling tests are not required. Otherwise either the heating or cooling cycling test value is required.

For units with capacity control marked 'staged', two values for the highest and lowest, noted

‘hi/lo’ divided by a slash (‘/’) will be declared in each box under ‘Declared capacity’.