Information requirements (air-to-air air conditioners)

Outdoor side heat exchanger of air conditioner	air										
Indoor side heat exchanger of air conditioner	air										
Туре	compressor driven vapour compression										
If applicable: driver of compressor	electric motor										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated cooling capacity	P _{rated,c}	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{\rm s,c}$	221.0	%				
Declared cooling capacity for part load at § 27°/19 °C (dry/wet bulb)	Declared energy efficiency ratio for part load at given outdoor temperatures \mathbf{T}_j										
$T_j = +35 ^{\circ}\text{C}$	Pdc	12.53	kW	T _j =+35 °C	EER _d	2.85	-				
$T_j = +30 ^{\circ}\text{C}$	Pdc	8.81	kW	T _j =+30 °C	EER_d	4.14	-				
$T_j = +25 ^{\circ}\text{C}$	Pdc	5.87	kW	T _j = + 25 °C	EER _d	6.37	-				
$T_j = +20 ^{\circ}\text{C}$	Pdc	3.83	kW	T _j = + 20 °C	EER _d	10.73	-				
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	_				-				
	Power con	sumption in	n modes other	than 'active mode'							
Off mode	$P_{\rm OFF}$	0.010	kW	Crankcase heater mode	P_{CK}	0.000	kW				
Thermostat-off mode	P _{TO}	0.010	kW	Standby mode	P_{SB}	0.010	kW				
			Other items								
Capacity control	variable				ı						
Sound power level, indoor/outdoor	L_{WA}	66/74	dB	For air-to-air air conditioner: air flow rate, outdoor measured	_	5900	m ³ /h				
If engine driven: Emissions of nitrogen oxides	NOx(**)	/	mg/kWh fuel input GCV								
GWP of the refrigerant	675		kg CO ₂ eq (100 years)								
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070				Name of manufacturer: GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI							

Model(s): AST-48BI

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements (heat pump)

			(near pump)									
Model(s): AST-48BI												
Outdoor side heat exchanger of heat pump	air											
Indoor side heat exchanger of heat pump	air											
Indication if the heater is equipped with a supplementary heater	no											
If applicable: driver of compressor		electric motor										
Parameters declared for	Average climate condition											
Item	symbol	value	unit	Item	symbol	value	unit					
Rated heating capacity	$P_{\text{rated},h}$	13.5	kW	Seasonal space heating energy efficiency	η _{s,h}	145.0	%					
Declared heating capacity for part load at temperature Tj	Declared coefficient of performance for part load at given outdoor temperatures \mathbf{T}_j											
T _j = -7 °C	Pdh	8.11	kW	T _j = -7 °C	COP_d	2.51	-					
T _j = + 2 °C	Pdh	4.82	kW	T _j = + 2 °C	COP_d	3.61	-					
$T_j = +7 ^{\circ}\text{C}$	Pdh	3.15	kW	T _j = + 7 °C	COP_d	4.73	1					
T _j = + 12 °C	Pdh	2.77	kW	T _j = + 12 °C	COP_d	5.75	1					
T _{biv} = bivalent temperature	Pdh	8.11	kW	$T_{biv} = bivalent temperature$	COP_d	2.51	-					
T _{OL} = operation limit	Pdh	7.48	kW	T _{OL} = operation limit	COP_d	2.34	-					
Tj = -15 °C (if TOL < -20 °C)	Pdh	NA	kW	Tj = -15 °C (if TOL < - 20 °C)	COP_d	NA	-					
Bivalent temperature	$T_{\rm biv}$	-7	°C	Operation limit temperature	T_{ol}	-10	°C					
Degradation co-efficient heat pumps(**)	C_{dh}	0.25	_			•						
Power consumption in	Supplementary heater											
Off mode	$P_{\rm OFF}$	0.010	kW	Back-up heating capacity	elbu	1.52	kW					
Thermostat-off mode	P_{TO}	0.016	kW	Type of energy input	Electric		•					
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.010	kW					
			Other items									
Capacity control	variable			For air-to-air air		5000	3					
Sound power level, indoor/outdoor measured	L_{WA}	66/74	dB	conditioner: air flow rate, outdoor measured	_	5900	m ³ /h					
Emissions of nitrogen oxides (if applicable)	NOx(***)	/	mg/kWh input GCV	Rated brine or water flow			3 a					
GWP of the refrigerant	675 kg CO ₂ eq (100 years)		rate, outdoor side heat exchanger	_	_	m ³ /h						
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangd	Name of manufacturer: GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI											
(*)												

Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.



^(**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. (***) From 26 September 2018.