Information requirements (air-to-air air conditioners)

		(all-to-a	ir air conditi	oners)							
Model(s):AST-48BI2/I、AST-48BI2/O											
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	$P_{\text{rated,c}}$	12.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	227.0	%				
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19 °C (dry/wet bulb)				Declared energy efficiency ratiofor part load at given outdoor temperatures T_j							
$T_j = +35 ^{\circ}\text{C}$	Pdc	12.30	kW	$T_j = +35 ^{\circ}\text{C}$	EER_d	2.86	-				
$T_{j} = +30 ^{\circ}\text{C}$	Pdc	8.91	kW	$T_j = +30 ^{\circ}\text{C}$	EER_d	4.27	-				
$T_j = +25 ^{\circ}\text{C}$	Pdc	5.73	kW	T _j = + 25 °C	EER_d	6.42	-				
$T_{j} = +20 ^{\circ}\text{C}$	Pdc	3.97	kW	T _j = + 20 °C	EER _d	10.59	-				
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	_				-				
	Power con	nsumption i	n modes other	than 'active mode'							
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.003	kW	Crankcase heater mode	P_{CK}	0.000	kW				
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.003	kW				
			Other items								
Capacity control	variable										
Sound power level, indoor/outdoor	L_{WA}	64/73	dB		_	4000	m^3/h				
If engine driven: Emissions of nitrogen oxides	NOx(**)	/	mg/kWh fuel input GCV	For air-to-air air conditioner: air flow rate, outdoor measured							
GWP of the refrigerant	kg CO ₂ e (100 year										
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070				Name of manufacturer: GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI							

^(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

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.

^(**) From 26 September 2018.

Information requirements (heat nump)

			(heat pump)								
Model(s):AST-48BI2/I、AST-48BI2/O											
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	$P_{\text{rated},h}$	12.6	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	147.0	%				
Declared heating capacity for part load at ir Tj	Declared coefficient of performance for part load at given outdoor temperatures $\mathbf{T}_{\mathbf{j}}$										
T _j = -7 °C	Pdh	8.10	kW	T _j = -7 °C	COP _d	2.53	-				
T _j = + 2 °C	Pdh	4.70	kW	$T_j = +2 ^{\circ}C$	COP _d	3.57	-				
T _j = + 7 °C	Pdh	3.17	kW	$T_j = +7 ^{\circ}C$	COP _d	4.93	-				
T _j = + 12 °C	Pdh	2.90	kW	$T_j = + 12 ^{\circ}\text{C}$	COP _d	6.22	-				
$T_{biv} = bivalent temperature$	Pdh	8.10	kW	T_{biv} = bivalent temperature	COP _d	2.53	-				
T _{OL} = operation limit	Pdh	7.74	kW	T_{OL} = operation limit	COP _d	2.12	-				
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	$P_{\rm off}$	0.002	kW	Back-up heating capacity (*)	elbu	1.26	kW				
Thermostat-off mode	P_{TO}	0.017	kW	Type of energy input	Electric						
Crankcase heater mode	$P_{\rm CK}$	0.000	kW	Standby mode	P_{SB}	0.002	kW				
			Other items								
Capacity control	variable			For air-to-air air conditioner:		4000	3				
Sound power level, indoor/outdoor measured	L_{WA}	64/73	dB	air flow rate, outdoor measured	_	4000	m³/h				
Emissions of nitrogen oxides (if applicable)	NOx(***)	/	mg/kWh input GCV	Rated brine or water flow rate, outdoor side heat		_	m³/h				
GWP of the refrigerant	675		kg CO ₂ eq (100 years)	exchanger	_		III / II				
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdo	ng, China, 51907	0		Name of manufacturer: GREE ELECTRIC APPLIANC	CES,INC. OF ZHU	HAI					

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

