

**Information requirements
(air-to-air air conditioners)**

Model(s):GUD160ZD/A-T、 GUD160W/NhA-X							
Outdoor side heat exchanger of air conditioner	air						
Indoor side heat exchanger of air conditioner	air						
Type	compressor driven vapour compression						
If applicable: driver of compressor	electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	16.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	258.7	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19 °C (dry/wet bulb)				Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = + 35\text{ °C}$	P_{dc}	16.02	kW	$T_j = + 35\text{ °C}$	EER_d	2.97	-
$T_j = + 30\text{ °C}$	P_{dc}	11.37	kW	$T_j = + 30\text{ °C}$	EER_d	5.00	-
$T_j = + 25\text{ °C}$	P_{dc}	7.43	kW	$T_j = + 25\text{ °C}$	EER_d	7.53	-
$T_j = + 20\text{ °C}$	P_{dc}	4.54	kW	$T_j = + 20\text{ °C}$	EER_d	11.35	-
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—				-
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.0027	kW	Crankcase heater mode	P_{CK}	0.0000	kW
Thermostat-off mode	P_{TO}	0.0180	kW	Standby mode	P_{SB}	0.0027	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	6600	m^3/h
Sound power level, indoor/outdoor	L_{WA}	65.8/70.5	dB				
If engine driven: Emissions of nitrogen oxides	$NO_x(**)$	/	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			
(*) If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25. (**) From 26 September 2018. 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)**

Model(s):GUD160ZD/A-T、GUD160W/NhA-X							
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	$P_{rated,h}$	17.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	152.3	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = -7\text{ °C}$	Pdh	11.02	kW	$T_j = -7\text{ °C}$	COP _d	2.48	-
$T_j = +2\text{ °C}$	Pdh	6.65	kW	$T_j = +2\text{ °C}$	COP _d	3.74	-
$T_j = +7\text{ °C}$	Pdh	4.44	kW	$T_j = +7\text{ °C}$	COP _d	5.22	-
$T_j = +12\text{ °C}$	Pdh	3.38	kW	$T_j = +12\text{ °C}$	COP _d	6.54	-
T_{biv} = bivalent temperature	Pdh	11.02	kW	T_{biv} = bivalent temperature	COP _d	2.48	-
T_{OL} = operation limit	Pdh	10.09	kW	T_{OL} = operation limit	COP _d	2.34	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	Pdh	NA	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	COP _d	NA	-
Bivalent temperature	T_{biv}	-7.00	°C	For water-to-air heat pumps: Operation limit temperature	T_{ol}	-10.00	°C
Degradation co-efficient heat pumps(**)	C_{dh}	0.25	—				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.0027	kW	Back-up heating capacity (*)	elbu	NA	kW
Thermostat-off mode	P_{TO}	0.0247	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.0000	kW	Standby mode	P_{SB}	0.0027	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: air flow rate, outdoor measured	—	6600	m ³ /h
Sound power level, indoor/outdoor measured	L_{WA}	65.1/72.5	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (* **)	/	mg/kWh input GCV	For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger	—	/	m ³ /h
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			
(*)							
(**) If C_{dh} 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.							