

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

Model(s):GMV-Q280WM/E-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	$P_{rated,c}$	28.00	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	396.5	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19 °C (dry/wet bulb)				Declared energy efficiency ratio for part load at given outdoor temperatures T_j			
$T_j = + 35 \text{ }^\circ\text{C}$	P_{dc}	28.26	kW	$T_j = + 35 \text{ }^\circ\text{C}$	EER_d	3.97	-
$T_j = + 30 \text{ }^\circ\text{C}$	P_{dc}	20.98	kW	$T_j = + 30 \text{ }^\circ\text{C}$	EER_d	6.20	-
$T_j = + 25 \text{ }^\circ\text{C}$	P_{dc}	13.22	kW	$T_j = + 25 \text{ }^\circ\text{C}$	EER_d	12.59	-
$T_j = + 20 \text{ }^\circ\text{C}$	P_{dc}	6.37	kW	$T_j = + 20 \text{ }^\circ\text{C}$	EER_d	33.70	-
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—				-
Power consumption in modes other than ‘active mode’							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.048	kW
Thermostat-off mode	P_{TO}	0.005	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	11400	m^3/h
Sound power level, indoor/outdoor	L_{WA}	-/84	dB				
If engine driven: Emissions of nitrogen oxides	$\text{NO}_x(**)$	-	mg/kWh fuel input GCV				
GWP of the refrigerant	2088		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):GMV-Q280WM/E-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	$P_{rated,h}$	20.97	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.2	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance for part load at given outdoor temperatures T_j			
$T_j = -7\text{ °C}$	P_{dh}	18.55	kW	$T_j = -7\text{ °C}$	COP_d	2.77	-
$T_j = +2\text{ °C}$	P_{dh}	11.56	kW	$T_j = +2\text{ °C}$	COP_d	4.46	-
$T_j = +7\text{ °C}$	P_{dh}	7.91	kW	$T_j = +7\text{ °C}$	COP_d	7.29	-
$T_j = +12\text{ °C}$	P_{dh}	9.31	kW	$T_j = +12\text{ °C}$	COP_d	9.35	-
T_{biv} = bivalent temperature	P_{dh}	18.55	kW	T_{biv} = bivalent temperature	COP_d	2.77	-
T_{OL} = operation limit	P_{dh}	17.05	kW	T_{OL} = operation limit	COP_d	2.65	-
$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	P_{dh}	-	kW	$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	COP_d	-	-
Bivalent temperature	T_{biv}	-7	°C	Operation limit temperature	T_{ol}	-10	°C
Degradation co-efficient heat pumps(**)	C_{dh}	0.25	—				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.017	kW	Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input	-		
Crankcase heater mode	P_{CK}	0.048	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: air flow rate, outdoor measured	—	11400	m ³ /h
Sound power level, indoor/outdoor measured	L_{WA}	-/90	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(***)$	-	mg/kWh input GCV	Rated brine or water flow rate, outdoor side heat exchanger	—	-	m ³ /h
GWP of the refrigerant	2088		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.							