

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

Model(s):GMV-450WM/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	$P_{rated,c}$	45.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	277.8	%
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			
$T_j = + 35$ °C	P_{dc}	45.06	kW	$T_j = + 35$ °C	EER_d	3.04	-
$T_j = + 30$ °C	P_{dc}	33.19	kW	$T_j = + 30$ °C	EER_d	4.99	-
$T_j = + 25$ °C	P_{dc}	21.63	kW	$T_j = + 25$ °C	EER_d	9.29	-
$T_j = + 20$ °C	P_{dc}	9.46	kW	$T_j = + 20$ °C	EER_d	14.47	-
Degradation co-efficient for air conditioners(*)	C_{dc}	0.25	—				-
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.033	kW	Crankcase heater mode	P_{CK}	0.109	kW
Thermostat-off mode	P_{TO}	0.025	kW	Standby mode	P_{SB}	0.033	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: air flow rate, outdoor measured	—	16000	m^3/h
Sound power level, indoor/outdoor	L_{WA}	-/80	dB				
If engine driven: Emissions of nitrogen oxides	$NO_x(**)$	-	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-450WM/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	$P_{rated,h}$	50.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	206.3	%
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			
$T_j = -7$ °C	P_{dh}	29.88	kW	$T_j = -7$ °C	COP_d	2.15	-
$T_j = +2$ °C	P_{dh}	20.65	kW	$T_j = +2$ °C	COP_d	5.56	-
$T_j = +7$ °C	P_{dh}	20.32	kW	$T_j = +7$ °C	COP_d	9.64	-
$T_j = +12$ °C	P_{dh}	22.93	kW	$T_j = +12$ °C	COP_d	12.39	-
T_{biv} = bivalent temperature	P_{dh}	29.88	kW	T_{biv} = bivalent temperature	COP_d	2.15	-
T_{OL} = operation limit	P_{dh}	27.63	kW	T_{OL} = operation limit	COP_d	2.00	-
$T_j = -15$ °C (if $TOL < -20$ °C)	P_{dh}	-	kW	$T_j = -15$ °C (if $TOL < -20$ °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}	0.033	kW	Back-up heating capacity (*)	elbu	-	kW
Thermostat-off mode	P_{TO}	0.034	kW	Type of energy input	-		
Crankcase heater mode	P_{CK}	0.109	kW	Standby mode	P_{SB}	0.033	kW
Other items							
Capacity control	variable			For air-to-air heat pumps: air flow rate, outdoor measured	—	16000	m ³ /h
Sound power level, indoor/outdoor measured	L_{WA}	-/88	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	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.							