

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): TH-V06EM1-R							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	152	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	5.40	kW	Tj = − 7 °C	COPd	2.55	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 °C	Pdh	3.15	kW	Tj = 2 °C	COPd	3.80	–
Degradation co-efficient (**)	Cdh	0.97	–				
Tj = 7 °C	Pdh	2.17	kW	Tj = 7 °C	COPd	4.96	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = 12 °C	Pdh	2.09	kW	Tj = 12 °C	COPd	6.70	–
Degradation co-efficient (**)	Cdh	0.92	–				
Tj = bivalent temperature	Pdh	5.40	kW	Tj = bivalent temperature	COPd	2.55	–
Tj = operation limit temperature	Pdh	4.45	kW	Tj = operation limit temperature	COPd	2.25	–
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	NA	–
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPpsych	NA	–
				Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	P _{sup}	1.55	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	5856	m ³ /h
Sound power level, outdoors	L _{WA}	54	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m ³ /h
Annual energy consumption	Q _{HE}	3247	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	124	%
Daily electricity consumption	Q _{elec}	6.428	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1414	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070				Name of the supplier: GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI			
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

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Model(s): TH-V06EM1-R							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	137	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	3.48	kW	Tj = − 7 °C	COPd	2.95	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 2 °C	Pdh	1.82	kW	Tj = 2 °C	COPd	4.26	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = 7 °C	Pdh	1.13	kW	Tj = 7 °C	COPd	5.39	–
Degradation co-efficient (**)	Cdh	0.88	–				
Tj = 12 °C	Pdh	2.22	kW	Tj = 12 °C	COPd	5.6	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = bivalent temperature	Pdh	4.12	kW	Tj = bivalent temperature	COPd	2.20	–
Tj = operation limit temperature	Pdh	3.49	kW	Tj = operation limit temperature	COPd	1.65	–
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	4.12	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	2.20	–
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	1.51	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	5856	m ³ / h
Sound power level, outdoors	L _{WA}	54	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m ³ / h
Annual energy consumption	Q _{HE}	3541	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	93	%
Daily electricity consumption	Q _{elec}	8.420	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1853	kWh	Annual fuel consumption	AFC	NA	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

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Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	183	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	NA	kW	Tj = − 7 °C	COPd	NA	−
Degradation co-efficient (**)	Cdh	NA	−				
Tj = 2 °C	Pdh	6.08	kW	Tj = 2 °C	COPd	2.60	−
Degradation co-efficient (**)	Cdh	0.99	−				
Tj = 7 °C	Pdh	3.73	kW	Tj = 7 °C	COPd	4.10	−
Degradation co-efficient (**)	Cdh	0.97	−				
Tj = 12 °C	Pdh	2.04	kW	Tj = 12 °C	COPd	5.88	−
Degradation co-efficient (**)	Cdh	0.93	−				
Tj = bivalent temperature	Pdh	6.08	kW	Tj = bivalent temperature	COPd	2.60	−
Tj = operation limit temperature	Pdh	6.08	kW	Tj = operation limit temperature	COPd	2.60	−
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	NA	−
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	−
				Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	−	5856	m ³ / h
Sound power level, outdoors	L _{WA}	54	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	−	NA	m ³ / h
Annual energy consumption	Q _{HE}	1745	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	129	%
Daily electricity consumption	Q _{elec}	6.247	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1374	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070				Name of the supplier: GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI			
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

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Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	204	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.05	kW	Tj = - 7 °C	COPd	3.20	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = 2 °C	Pdh	3.22	kW	Tj = 2 °C	COPd	5.05	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = 7 °C	Pdh	2.07	kW	Tj = 7 °C	COPd	7.10	-
Degradation co-efficient (**)	Cdh	0.91	-				
Tj = 12 °C	Pdh	2.09	kW	Tj = 12 °C	COPd	8.71	-
Degradation co-efficient (**)	Cdh	0.90	-				
Tj = bivalent temperature	Pdh	5.05	kW	Tj = bivalent temperature	COPd	3.20	-
Tj = operation limit temperature	Pdh	5.64	kW	Tj = operation limit temperature	COPd	2.50	-
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	NA	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	-
				Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.36	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	5856	m ³ / h
Sound power level, outdoors	L _{WA}	54	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ / h
Annual energy consumption	Q _{HE}	2271	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	124	%
Daily electricity consumption	Q _{elec}	6.428	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1414	kWh	Annual fuel consumption	AFC	NA	GJ
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Model(s): TH-V06EM1-R							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	172	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	3.24	kW	Tj = − 7 °C	COPd	3.80	−
Degradation co-efficient (**)	Cdh	0.97	−				
Tj = 2 °C	Pdh	1.90	kW	Tj = 2 °C	COPd	5.11	−
Degradation co-efficient (**)	Cdh	0.93	−				
Tj = 7 °C	Pdh	1.72	kW	Tj = 7 °C	COPd	6.65	−
Degradation co-efficient (**)	Cdh	0.90	−				
Tj = 12 °C	Pdh	2.13	kW	Tj = 12 °C	COPd	8.41	−
Degradation co-efficient (**)	Cdh	0.90	−				
Tj = bivalent temperature	Pdh	4.13	kW	Tj = bivalent temperature	COPd	3.00	−
Tj = operation limit temperature	Pdh	3.46	kW	Tj = operation limit temperature	COPd	2.10	−
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	4.13	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	3.00	−
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	−
				Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	1.54	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	−	5856	m ³ / h
Sound power level, outdoors	L _{WA}	54	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	−	NA	m ³ / h
Annual energy consumption	Q _{HE}	2849	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	93	%
Daily electricity consumption	Q _{elec}	8.420	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1853	kWh	Annual fuel consumption	AFC	NA	GJ
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Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): TH-V06EM1-R							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	251	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	NA	kW	Tj = − 7 °C	COPd	NA	–
Degradation co-efficient (**)	Cdh	NA	–				
Tj = 2 °C	Pdh	5.57	kW	Tj = 2 °C	COPd	4.00	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 7 °C	Pdh	3.55	kW	Tj = 7 °C	COPd	5.68	–
Degradation co-efficient (**)	Cdh	0.96	–				
Tj = 12°C	Pdh	2.10	kW	Tj = 12°C	COPd	8.00	–
Degradation co-efficient (**)	Cdh	0.91	–				
Tj = bivalent temperature	Pdh	5.57	kW	Tj = bivalent temperature	COPd	4.00	–
Tj = operation limit temperature	Pdh	5.57	kW	Tj = operation limit temperature	COPd	4.00	–
For air-to-water heat pumps: Tj = − 15°C (if TOL < − 20°C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = − 15°C (if TOL < − 20°C)	COPd	NA	–
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcyc	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	80	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	P _{sup}	0.43	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	5856	m ³ /h
Sound power level, outdoors	L _{WA}	54	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m ³ /h
Annual energy consumption	Q _{HE}	1170	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	129	%
Daily electricity consumption	Q _{elec}	6.247	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1374	kWh	Annual fuel consumption	AFC	NA	GJ
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