

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): TH-V08EM1-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	7	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	5.90	kW	Tj = − 7 °C	COPd	2.32	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 °C	Pdh	3.62	kW	Tj = 2 °C	COPd	4.04	–
Degradation co-efficient (**)	Cdh	0.97	–				
Tj = 7 °C	Pdh	2.57	kW	Tj = 7 °C	COPd	4.52	–
Degradation co-efficient (**)	Cdh	0.96	–				
Tj = 12 °C	Pdh	2.45	kW	Tj = 12 °C	COPd	6.70	–
Degradation co-efficient (**)	Cdh	0.93	–				
Tj = bivalent temperature	Pdh	5.9	kW	Tj = bivalent temperature	COPd	2.32	–
Tj = operation limit temperature	Pdh	6.65	kW	Tj = operation limit temperature	COPd	2.01	–
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	0.35	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	–	5000	m ³ / h
Sound power level, outdoors	L _{WA}	56	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}	3556	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	121	%
Daily electricity consumption	Q _{elec}	6.796	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1495	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.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): TH-V08EM1-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	7	kW	Seasonal space heating energy efficiency	ηs	132	%
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	4.58	kW	Tj = − 7 °C	COPd	2.87	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 2 °C	Pdh	2.54	kW	Tj = 2 °C	COPd	3.95	–
Degradation co-efficient (**)	Cdh	0.96	–				
Tj = 7 °C	Pdh	2.99	kW	Tj = 7 °C	COPd	5.56	–
Degradation co-efficient (**)	Cdh	0.95	–				
Tj = 12°C	Pdh	2.13	kW	Tj = 12°C	COPd	6.55	–
Degradation co-efficient (**)	Cdh	0.92	–				
Tj = bivalent temperature	Pdh	5.73	kW	Tj = bivalent temperature	COPd	2.08	–
Tj = operation limit temperature	Pdh	5.10	kW	Tj = operation limit temperature	COPd	1.59	–
For air-to-water heat pumps: Tj = − 15°C (if TOL < − 20°C)	Pdh	5.73	kW	For air-to-water heat pumps: Tj = − 15°C (if TOL < − 20°C)	COPd	2.08	–
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	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}	1.9	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	–	5000	m ³ /h
Sound power level, outdoors	L _{WA}	56	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}	5123	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	100	%
Daily electricity consumption	Q _{elec}	8.206	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1805	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.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): TH-V08EM1-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	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	ηs	198	%
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	7.81	kW	Tj = 2 °C	COPd	2.51	−
Degradation co-efficient (**)	Cdh	0.99	−				
Tj = 7 °C	Pdh	5.24	kW	Tj = 7 °C	COPd	4.12	−
Degradation co-efficient (**)	Cdh	0.98	−				
Tj = 12 °C	Pdh	2.93	kW	Tj = 12 °C	COPd	7.00	−
Degradation co-efficient (**)	Cdh	0.94	−				
Tj = bivalent temperature	Pdh	7.81	kW	Tj = bivalent temperature	COPd	2.51	−
Tj = operation limit temperature	Pdh	7.81	kW	Tj = operation limit temperature	COPd	2.51	−
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	0.19	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	−	5000	m ³ / h
Sound power level, outdoors	L _{WA}	56	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}	2073	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	123	%
Daily electricity consumption	Q _{elec}	6.536	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1438	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.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): TH-V08EM1-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	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	ηs	202	%
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	7.07	kW	Tj = − 7 °C	COPd	3.03	−
Degradation co-efficient (**)	Cdh	0.99	−				
Tj = 2 °C	Pdh	4.15	kW	Tj = 2 °C	COPd	4.91	−
Degradation co-efficient (**)	Cdh	0.97	−				
Tj = 7 °C	Pdh	3.05	kW	Tj = 7 °C	COPd	7.23	−
Degradation co-efficient (**)	Cdh	0.94	−				
Tj = 12 °C	Pdh	2.31	kW	Tj = 12 °C	COPd	8.88	−
Degradation co-efficient (**)	Cdh	0.90	−				
Tj = bivalent temperature	Pdh	7.07	kW	Tj = bivalent temperature	COPd	3.03	−
Tj = operation limit temperature	Pdh	7.91	kW	Tj = operation limit temperature	COPd	2.76	−
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	0.09	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	−	5000	m ³ / h
Sound power level, outdoors	L _{WA}	56	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}	3226	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	121	%
Daily electricity consumption	Q _{elec}	6.796	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1495	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.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): TH-V08EM1-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	7	kW	Seasonal space heating energy efficiency	ηs	178	%
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	4.06	kW	Tj = − 7 °C	COPd	3.78	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 2 °C	Pdh	2.55	kW	Tj = 2 °C	COPd	5.50	–
Degradation co-efficient (**)	Cdh	0.95	–				
Tj = 7 °C	Pdh	2.92	kW	Tj = 7 °C	COPd	7.30	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = 12°C	Pdh	2.52	kW	Tj = 12°C	COPd	7.92	–
Degradation co-efficient (**)	Cdh	0.91	–				
Tj = bivalent temperature	Pdh	5.53	kW	Tj = bivalent temperature	COPd	2.73	–
Tj = operation limit temperature	Pdh	5.80	kW	Tj = operation limit temperature	COPd	2.09	–
For air-to-water heat pumps: Tj = − 15°C (if TOL < − 20°C)	Pdh	5.53	kW	For air-to-water heat pumps: Tj = − 15°C (if TOL < − 20°C)	COPd	2.73	–
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	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}	1.20	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	–	5000	m ³ /h
Sound power level, outdoors	L _{WA}	56	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}	3693	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	100	%
Daily electricity consumption	Q _{elec}	8.206	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1805	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.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): TH-V08EM1-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	8	kW	Seasonal space heating energy efficiency	ηs	278	%
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	7.91	kW	Tj = 2 °C	COPd	3.68	−
Degradation co-efficient (**)	Cdh	0.99	−				
Tj = 7 °C	Pdh	5.28	kW	Tj = 7 °C	COPd	6.11	−
Degradation co-efficient (**)	Cdh	0.97	−				
Tj = 12 °C	Pdh	2.48	kW	Tj = 12 °C	COPd	9.05	−
Degradation co-efficient (**)	Cdh	0.91	−				
Tj = bivalent temperature	Pdh	7.91	kW	Tj = bivalent temperature	COPd	3.68	−
Tj = operation limit temperature	Pdh	7.91	kW	Tj = operation limit temperature	COPd	3.68	−
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	0.09	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	−	5000	m ³ / h
Sound power level, outdoors	L _{WA}	56	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}	1502	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	123	%
Daily electricity consumption	Q _{elec}	6.536	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1438	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.							



66329904994