	(heat n			requirements eat pump combination heaters)					
Model(s): GRS-CQ10Pd/NhG3-M	(near p	- space ii	- Cutci s unu ii	reac pump combination neaccis)					
Air-to-water heat pump		Y		Low-temperature heat pump	N				
Water-to-water heat pump		N		Equipped with a supplementary	Y				
		N		heater Heat pump combination heater					
Brine-to-water heat pump		IN			Y				
Parameters declared for				Medium-temperature application					
Parameters declared for				Average climate condition	rage climate condition				
Item	symbol	value	unit	Item	symbol	value	unit		
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	ηs	140	%		
Declared capacity for heating for part outdoor tem		or temperatur	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a					
Tj = − 7 °C	Pdh	9.0	kW				<u>,</u>		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.45	_		
Tj = 2 ℃	Pdh	5.2	kW	T: 2 °C	CODI				
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	3.44	_		
Tj = 7 ℃	Pdh	3.5	kW	Ti = 7 ℃	COPd	4.63			
Degradation co-efficient (**)	Cdh	0.97	-	1j = / C		4.03	_		
Tj = 12℃	Pdh	2.9	kW	Tj = 12℃	COPd	5.21			
Degradation co-efficient (**)	Cdh	0.96	-	1j - 12 C	COTU	3.21	_		
Tj = bivalent temperature	Pdh	Pdh 9.0 kW		Tj = bivalent temperature	COPd	2.45	_		
Tj = operation limit temperature	Pdh	9.6 kW		Tj = operation limit temperature	COPd	2.15	_		
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	-		
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$		
Cycling interval capacity for heating	Pcych NA	kW	Cycling interval efficiency	СОРсус	NA	_			
Cycling interval capacity for heating	1 Cycli	IVA	K VV	Heating water operating limit temperature	WTOL	65	$^{\circ}$ C		
Power consumption in mod	des other tha	n active mod	e	Supplementary heater					
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.4	kW		
Thermostat-off mode	P _{TO}	0.025	kW						
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric			
Crankcase heater mode	P_{CK}	0.025	kW						
Other	items					T	Г		
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	5800	m 3 /h		
Sound power level, outdoors	$L_{w_{A}}$	68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h		
Annual energy consumption	Q_{HE}	5907	kWh	rate, outdoor heat exchanger	- NA		5 /11		
For heat pump combination heater:									
Declared load profile		XL		Water heating energy efficiency	ηwh	123	%		
Daily electricity consumption	Qelec	6.506	kWh	Daily fuel consumption	Qfuel	NA	kWh		
Annual electricity consumption Contact details:	AEC	1358	kWh	Annual fuel consumption	AFC	NA	GJ		
West Jinji Rd, Qianshan, Zhuhai, Guar				Name of the supplier: GREE ELECTRIC APPLIANCES,IN					

^(*) 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.

	(heat n			requirements neat pump combination heaters)				
Model(s): GRS-CQ10Pd/NhG3-M	(пеат р	ump space n	- and i	leat pump combination heaters)				
Air-to-water heat pump	Y			Low-temperature heat pump	N			
Water-to-water heat pump	N			Equipped with a supplementary heater	Y			
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	9	kW	Seasonal space heating energy efficiency	ηs	124	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	5.8	kW	-				
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.95	_	
Tj = 2 ℃	Pdh	3.5	kW	T: 0.00	GOD 1			
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	3.50	_	
Tj = 7 ℃	Pdh	2.7	kW	Ti = 7 ℃	COD4	4.83		
Degradation co-efficient (**)	Cdh	0.96	-	1j = / C	COPd	4.63	_	
Tj = 12℃	Pdh	3.4	kW	Tj = 12℃	COPd	6.08		
Degradation co-efficient (**)	Cdh	0.96	_	11 – 12 C	СОРИ	0.08	_	
Tj = bivalent temperature	Pdh	Pdh 7.6 kW		Tj = bivalent temperature	COPd	2.20	_	
Tj = operation limit temperature	Pdh	4.1 kW		Tj = operation limit temperature	COPd	1.06	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (if TOL \le -20^{\circ})$	Pdh	7.6	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	2.20	_	
Bivalent temperature	Tbiv	Tbiv -15 °C		For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$	
Civalina interval compaits for heating	B 1 NA	NA	kW	Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	K W	Heating water operating limit temperature	WTOL	65	${\mathbb C}$	
Power consumption in mo	des other tha	n active mod	le	Supplementary heater				
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	4.9	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input	Electric			
Crankcase heater mode	$P_{\rm CK}$	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	5800	m 3 /h	
Sound power level, outdoors	L_{wa}	68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	Q_{HE}	7206	kWh	rate, outdoor heat exchanger	- NA			
		For l	heat pump co	ombination heater:				
Declared load profile		XL		Water heating energy efficiency	ηwh	101	%	
Daily electricity consumption	Qelec	7.905	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption Contact details:	AEC	1648	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ	
West Jinji Rd, Qianshan, Zhuhai, Gua		na, 519070		GREE ELECTRIC APPLIANCES,IN				

^(*) 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.

	(heat p			requirements leat pump combination heaters)			
Model(s): GRS-CQ10Pd/NhG3-M							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
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	10	kW	Seasonal space heating energy efficiency	ηs	165	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = −7 °C	Pdh	NA	kW	-			
Degradation co-efficient (**)	Cdh	NA	_	Tj = − 7 °C	COPd	NA	_
Tj = 2 ℃	Pdh	10.1	kW				
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	2.55	_
Tj = 7 ℃	Pdh	6.0	kW	T: 7.°C	CODI	2.62	
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	3.63	_
Tj = 12℃	Pdh	3.3	kW	T: = 12°C	COD4	5.20	
Degradation co-efficient (**)	Cdh	0.96	-	Tj = 12℃	COPd	5.30	_
Tj = bivalent temperature	Pdh	Pdh 10.1 kW		Tj = bivalent temperature	COPd	2.55	_
Tj = operation limit temperature	Pdh	h 10.1 kW		Tj = operation limit temperature	COPd	2.55	_
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ} C)$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd NA		-
Bivalent temperature	Tbiv	2 ℃		For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$
	D 1		1-337	Cycling interval efficiency	COPcyc	NA	-
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	65	$^{\circ}$
Power consumption in mo	des other tha	n active mod	le	Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	$P_{\rm CK}$	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	5800	m 3 /h
Sound power level, outdoors	L_{WA}	68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	3236	kWh	rate, outdoor heat exchanger	_	NA.	111 3 711
		For	heat pump co	mbination heater:			
Declared load profile		XL		Water heating energy efficiency	ηwh	123	%
Daily electricity consumption	Qelec	6.505	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1358	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: West Jinji Rd, Qianshan, Zhuhai, Gua	ngdong, Chi	na, 519070		Name of the supplier: GREE ELECTRIC APPLIANCES,IN	C. OF ZHUI	HAI	

^(*) 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.

	(heat p			requirements leat pump combination heaters)				
Model(s): GRS-CQ10Pd/NhG3-M								
Air-to-water heat pump	Y			Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	Y			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Low-temperature application	l			
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηs	189	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = −7 °C	Pdh	8.3	kW				Ť	
Degradation co-efficient (**)	Cdh	0.99	-	Tj = − 7 °C	COPd	3.15	_	
Tj = 2 ℃	Pdh	4.6	kW	T: - 2 °C	COD4	4.22		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPd	4.32	_	
Tj = 7 ℃	Pdh	3.3	kW	Ti = 7 ℃	COPd	7.46		
Degradation co-efficient (**)	Cdh	0.95	_	1,1-7 C	COTU	7.40	_	
Tj = 12℃	Pdh	3.2	kW	Tj = 12℃	COPd	7.44	_	
Degradation co-efficient (**)	Cdh	0.94	-	1j 12 C	COLU	7.44		
Tj = bivalent temperature	Pdh 8.3 kW		kW	Tj = bivalent temperature	COPd	3.15	-	
Tj = operation limit temperature	Pdh	h 8.3 kW		Tj = operation limit temperature	COPd	2.74	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd NA		_	
Bivalent temperature	Tbiv	-7	C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	Pevch NA	kW	Cycling interval efficiency	СОРсус	NA	-	
Cycling interval capacity for heating	1 cycli	1171	K VV	Heating water operating limit temperature	WTOL	65	$^{\circ}$	
Power consumption in mod	des other tha	n active mod	le	Supplementary heater				
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.7	kW	
Thermostat-off mode	P _{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	P _{CK}	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	5800	m 3 /h	
Sound power level, outdoors	L_{w_A}	68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	Q_{HE}	4069	kWh	rate, outdoor heat exchanger		11/1	111 3 711	
		For 1	heat pump co	mbination heater:				
Declared load profile		XL		Water heating energy efficiency	ηwh	123	%	
Daily electricity consumption	Qelec	6.506	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1358	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: West Jinji Rd, Qianshan, Zhuhai, Gua	ngdong, Chir	na, 519070		Name of the supplier: GREE ELECTRIC APPLIANCES,IN	C. OF ZHUI	HAI		

^(*) 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.

	(heat m			requirements				
Model(s): GRS-CQ10Pd/NhG3-M	(neat p	ump space n	eaters and n	neat pump combination heaters)				
Air-to-water heat pump		Y		Low-temperature heat pump	N			
An-to-water neat pump	Y				N			
Water-to-water heat pump		N		Equipped with a supplementary heater	Y			
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 10 kW		kW	Seasonal space heating energy efficiency	ηs	150	%	
Declared capacity for heating for part outdoor tem		or temperatui	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = −7 °C	Pdh	5.7	kW	T: 5.00	GOD 1	205		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = − 7 °C	COPd	2.95	_	
Tj = 2 °C	Pdh	3.4	kW	Ti = 2 °C	COPd	4.71		
Degradation co-efficient (**)	Cdh	0.97	_	11-2 C	СОРИ	4.71		
Tj = 7 ℃	Pdh	2.8	kW	Tj = 7 ℃	COPd	6.23	_	
Degradation co-efficient (**)	Cdh	0.95	-	1j / C	COLU			
Tj = 12℃	Pdh	3.2	kW	Tj = 12℃	COPd	6.85	_	
Degradation co-efficient (**)	Cdh	0.95	-	1, 120		0.03		
Tj = bivalent temperature	Pdh 7.8 kW		kW	Tj = bivalent temperature	COPd	2.73	_	
Tj = operation limit temperature	Pdh	Pdh 6.0 kW		Tj = operation limit temperature	COPd	1.86	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	7.8 kW		For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	2.73	_	
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	${\mathbb C}$	
Cycling interval capacity for heating	Pcych NA	kW	Cycling interval efficiency	СОРсус	NA	_		
Cycling interval capacity for heating	Feyen	NA	KW	Heating water operating limit temperature	WTOL	65	${\mathbb C}$	
Power consumption in mod	des other tha	n active mod	e	Supplementary heater				
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	4	kW	
Thermostat-off mode	P _{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input	Electric			
Crankcase heater mode	P_{CK}	0.025	kW					
Other	items				Г	T		
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	5800	m 3 /h	
Sound power level, outdoors	L_{w_A}	68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	Q_{HE}	6194	kWh	rate, outdoor heat exchanger		11/1	111 3 / 11	
For heat pump combination heater:								
Declared load profile		XL		Water heating energy efficiency	ηwh	101	%	
Daily electricity consumption	Qelec	7.905	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1648	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070 Mame of the supplier: GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI (*) For boot rough, condession lead for booting Polesians and lead for booting Polesians.								

^(*) 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.

	(heat n			requirements neat pump combination heaters)				
Model(s): GRS-CQ10Pd/NhG3-M	(пеат р	ump space n	- and i	teat pump combination neaters)				
Air-to-water heat pump	Y			Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	Y			
Brine-to-water heat pump		N		Heat pump combination heater		Y		
Parameters declared for				Low-temperature application	<u> </u>			
Parameters declared for				Warmer climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	ηs	223	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	NA	kW					
Degradation co-efficient (**)	Cdh	NA	_	Tj = − 7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	10.1	kW	T: 0.00	GOD 1	2.50		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	3.70	_	
Tj = 7 ℃	Pdh	6.0	kW					
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 7 ℃	COPd	5.63	_	
Tj = 12℃	Pdh	3.0	kW					
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 12°C	COPd	6.22	_	
Tj = bivalent temperature	Pdh 10.1 kW		kW	Tj = bivalent temperature	COPd	3.70	_	
Tj = operation limit temperature	Pdh	dh 10.1 kW		Tj = operation limit temperature	COPd	3.70	_	
For air-to-water heat pumps: $Tj = -15 \degree \text{ (if TOL} < -20 \degree \text{)}$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_	
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$	
		1-337	Cycling interval efficiency	СОРсус	NA	-		
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	65	$^{\circ}$	
Power consumption in mod	des other tha	n active mod	le	Supplementary heater				
Off mode	$P_{\rm OFF}$	0.025	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	$P_{\scriptscriptstyle SB}$	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	$P_{\rm CK}$	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	5800	m 3 /h	
Sound power level, outdoors	L_{WA}	68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	2399	kWh	rate, outdoor heat exchanger		NA .	111 3 711	
		For 1	heat pump co	ombination heater:				
Declared load profile		XL		Water heating energy efficiency	ηwh	123	%	
Daily electricity consumption	Qelec	6.505	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1358	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: West Jinji Rd, Qianshan, Zhuhai, Gua				Name of the supplier: GREE ELECTRIC APPLIANCES,IN				

^(*) 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.

