	(heat n			requirements neat pump combination heaters)			
Model(s): GRS-CQ8.0Pd/NhG4-M	(пеат р	ump space i		reat 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	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 un		unit
Rated heat output (*)	Prated 9 kW		kW	Seasonal space heating energy efficiency	ηs	135	%
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	7.8	kW				
Degradation co-efficient (**)	Cdh	0.99	-	Tj = − 7 °C	COPd	2.14	_
Tj = 2 ℃	Pdh	5.0	kW	T: 0.00	GOD 1	2.25	
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	3.37	_
Tj = 7 ℃	Pdh	3.3	kW			4.53	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 7 ℃	COPd	4.33	_
Tj = 12℃	Pdh	3.0	kW	Tj = 12℃	COPd	5.44	
Degradation co-efficient (**)	Cdh	0.95	_	11 – 12 C	СОРИ	3.44	_
Tj = bivalent temperature	Pdh 7.8 kW		kW	Tj = bivalent temperature	COPd	2.14	
Tj = operation limit temperature	Pdh	8.6 kW		Tj = operation limit temperature	COPd	2.07	
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	Tbiv -7 °C		For air-to-water heat pumps: Operation limit temperature	TOL	-10	${\mathfrak C}$
Cycling interval consoits for heating	Pevch NA	kW	Cycling interval efficiency	СОРсус	NA	_	
Cycling interval capacity for heating	Pcych	INA	K VV	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	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						
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}	5261	kWh	rate, outdoor heat exchanger		IVA	111 3 /11
		For	heat pump co	ombination 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 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 n			requirements neat pump combination heaters)			
Model(s): GRS-CQ8.0Pd/NhG4-M	(пеат р	ump space n		reat 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	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 un		unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	ηs	120	%
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	5.1	kW				-
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.75	_
Tj = 2 ℃	Pdh	3.0	kW	—			
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 2 ℃	COPd	3.4	_
Tj = 7 ℃	Pdh	3.2	kW	T. 7.00	CODI	4.61	
Degradation co-efficient (**)	Cdh	0.96	_	Tj = 7 °C	COPd	4.01	
Tj = 12℃	Pdh	3.0	kW	Tj = 12℃	COPd	5.79	
Degradation co-efficient (**)	Cdh	0.95	_	1j – 12 C	COPa	3.79	_
Tj = bivalent temperature	Pdh 6.8 kW		kW	Tj = bivalent temperature	COPd	2.20	_
Tj = operation limit temperature	Pdh	4.4 kW		Tj = operation limit temperature	COPd	1.22	_
For air-to-water heat pumps: $Tj = -15^{\circ} (if TOL \le -20^{\circ})$	Pdh	6.8	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	2.20	_
Bivalent temperature	Tbiv	v -15 °C		For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$
Civalina interval compaits for heating	DI NIA	kW	Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	K W	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	3.6	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_{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}	6706	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
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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.

	(heat n			requirements neat pump combination heaters)				
Model(s): GRS-CQ8.0Pd/NhG4-M	(пеат р	ишр ѕрасе п	eaters and n	near 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	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 ur		unit	
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηs	168	%	
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 ℃	COPd	NA	_	
Tj = 2 ℃	Pdh	8.9	kW	— 1 • • •				
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 °C	COPd	2.12	_	
Tj = 7 ℃	Pdh	6.3	kW					
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 7 °C	COPd	3.99	_	
Tj = 12°C	Pdh	3.0	kW					
Degradation co-efficient (**)	Cdh	0.96	-	Tj = 12℃	COPd	5.29	_	
Tj = bivalent temperature	Pdh 8.9 kW		kW	Tj = bivalent temperature	COPd	2.12	_	
Tj = operation limit temperature	Pdh	8.9 kW		Tj = operation limit temperature	COPd	2.12	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	NA kW		For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_	
Bivalent temperature	Tbiv	biv 2 °C		For air-to-water heat pumps: Operation limit temperature	TOL	2	${\mathbb C}$	
Cycling interval consoits for heating	Pcvch NA	kW	Cycling interval efficiency	COPcyc	NA	_		
Cycling interval capacity for heating	Pcych	INA	K VV	Heating water operating limit temperature	WTOL	65	°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	0.1	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	$L_{\scriptscriptstyle WA}$	68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	\boldsymbol{Q}_{HE}	2751	kWh	rate, outdoor heat exchanger	- NA			
		For l	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 Contact details:	AEC	1358	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ	
West Jinji Rd, Qianshan, Zhuhai, Gua				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-CQ8.0Pd/NhG4-M								
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	176	%	
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	7.4	kW					
Degradation co-efficient (**)	Cdh	0.99	-	Tj = − 7 °C	COPd	3.12	_	
Tj = 2 ℃	Pdh	4.2	kW	T: - 2 °C	COPd	4.17		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPa	4.17	_	
Tj = 7 ℃	Pdh	2.84	kW	Tj = 7 ℃	COPd	5.92		
Degradation co-efficient (**)	Cdh	0.95	-	1j - / C	COPa	3.92	_	
Tj = 12°C	Pdh	3.2	kW	T: - 12°C	COD4	7.10		
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 12°C	COPd	7.18	_	
Tj = bivalent temperature	Pdh 7.4 kW		kW	Tj = bivalent temperature	COPd	3.12	_	
Tj = operation limit temperature	Pdh	Pdh 8.0 kW		Tj = operation limit temperature	COPd	2.84	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	NA	_	
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$	
Cycling interval consoits for heating	Davah	Daniel NA	kW	Cycling interval efficiency	СОРсус	NA	_	
Cycling interval capacity for heating	Pcych	NA	K VV	Heating water operating limit temperature	WTOL	65	°C	
Power consumption in mo	des other tha	n active mod	e	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_{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}	3882	kWh	rate, outdoor heat exchanger		11/1	111 3 711	
		For l	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, 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 n			requirements neat pump combination heaters)				
Model(s): GRS-CQ8.0Pd/NhG4-M	(пеат р	ump space n	- arcis 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	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	9	kW	Seasonal space heating energy efficiency	ηs	142	%	
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	5.4	kW					
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.75	_	
Tj = 2 ℃	Pdh	3.2	kW	—				
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPd	4.52	_	
Tj = 7 ℃	Pdh	2.6	kW	T. 7.00	CODI	5.62		
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 7 °C	COPd	5.63		
Tj = 12℃	Pdh	3.2	kW	Tj = 12℃	COPd	7.01		
Degradation co-efficient (**)	Cdh	0.95	_	1j – 12 C	COPa	7.01	_	
Tj = bivalent temperature	Pdh	Pdh 6.0 kW		Tj = bivalent temperature	COPd	1.71	_	
Tj = operation limit temperature	Pdh	6.1 kW		Tj = operation limit temperature	COPd	1.87	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	6.0	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	1.71	_	
Bivalent temperature	Tbiv	Тbiv -15 °С		For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$	
Cycling interval capacity for heating	Pcych NA	kW	Cycling interval efficiency	СОРсус	NA	_		
Cycling interval capacity for heating	Teyen	IVA	K VV	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	2.9	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_{CK}	0.025	kW					
Other	items				Т	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}	5935	kWh	rate, outdoor heat exchanger	- NA			
		For 1	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	
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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.

	(heat p			requirements leat pump combination heaters)			
Model(s): GRS-CQ8.0Pd/NhG4-M							
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	9	kW	Seasonal space heating energy efficiency	ης	226	%
Declared capacity for heating for part outdoor tem		or temperatui	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Ti = −7 °C	Pdh	NA	kW	indoor temperature 20°C t	ina outaoor t	emperature 1	<u> </u>
Degradation co-efficient (**)	Cdh	NA	_	Tj = −7 °C	COPd	NA	-
Tj = 2 °C	Pdh	8.6	kW				
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 ℃	COPd	2.93	_
Tj = 7 ℃	Pdh	5.4	kW	T: 7.00	GOD 1	- 1	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 7 ℃	COPd	5.4	_
Tj = 12℃	Pdh	3.0	kW	T: = 12°C	COD4	7.04	
Degradation co-efficient (**)	Cdh	0.95	-	Tj = 12℃	COPd	7.04	_
Tj = bivalent temperature	Pdh 8.6 kW		kW	Tj = bivalent temperature	COPd	2.93	-
Tj = operation limit temperature	Pdh	8.6	kW	Tj = operation limit temperature	COPd	2.93	-
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	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
			1 777	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	e	Supplemen	tary 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						
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}	2001	kWh	rate, outdoor heat exchanger		1171	111 3 711
		For 1	heat pump co	mbination heater:			
Declared load profile		XL		Water heating energy efficiency	ηwh	123	%
Daily electricity consumption	Qelec	6.505	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.

