	(heat p			requirements neat pump combination heaters)				
Model(s): R-AQUA CGW-M 16 M		P ~P						
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				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	ηs	138	%	
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	12.1	kW					
Degradation co-efficient (**)	Cdh	1.00	_	Tj = − 7 °C	COPd	2.17	_	
Tj = 2 ℃	Pdh	6.9	kW	T: - 2 °C	COD4	3.66		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	3.00	_	
Tj = 7 ℃	Pdh	4.4	kW	T: - 7 °C	COD4	4.30		
Degradation co-efficient (**)	Cdh	0.98	-	- Tj = 7 °C	COPd	4.30	_	
Tj = 12℃	Pdh	3.0	kW	T: 12°C	CODI	4.02		
Degradation co-efficient (**)	Cdh	0.96	_	Tj = 12℃	COPd	4.93	_	
Tj = bivalent temperature	Pdh 12.1 kW		kW	Tj = bivalent temperature	COPd	2.17	_	
Tj = operation limit temperature	Pdh	Pdh 11.5 kW		Tj = operation limit temperature	COPd	2.02	_	
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	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	${\mathbb C}$	
			Cycling interval efficiency	COPcyc	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	e	Supplemen	ntary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	2.5	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	_	5015	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}	8014	kWh	rate, outdoor heat exchanger		INA	111 3 /11	
For heat pump combination heater:								
Declared load profile		XL		Water heating energy efficiency	ηwh	110	%	
Daily electricity consumption	Qelec	7.243	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1518	kWh	Annual fuel consumption	AFC	NA	GJ	
/*) For host nump anged hosters and h	oot numn co	mhination be	atara tha est	ed heat output Prated is equal to the de	sian land for	haatina Ddaa	ianh	

^(*) 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-CQ16Pd/NhG3-M	(пеат р	ump space 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	13	kW	Seasonal space heating energy efficiency	ηs	118	%	
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 ℃	COPd	2.55	_	
Tj = 2 ℃	Pdh	4.4	kW					
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	3.71	_	
Tj = 7 ℃	Pdh	2.9	kW	T: 7.00	CODI	4.61		
Degradation co-efficient (**)	Cdh	0.96	-	Tj = 7 ℃	COPd	4.61	_	
Tj = 12°C	Pdh	3.3	kW	T: 12°C	CODI	7.02		
Degradation co-efficient (**)	Cdh	0.96	_	Tj = 12℃	COPd	5.02	_	
Tj = bivalent temperature	Pdh 10.4 kW		kW	Tj = bivalent temperature	COPd	1.82	_	
Tj = operation limit temperature	Pdh	6.7 kW		Tj = operation limit temperature	COPd	1.06	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	10.4 kW		For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	1.82	_	
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$	
Cycling interval capacity for heating	D 1 NA	kW	Cycling interval efficiency	COPcyc	NA	_		
Cycling interval capacity for heating	Pcych	NA	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	6.3	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	_	5015	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}	10373	kWh			IVA	111 3 /11	
		For	heat pump co	ombination heater:				
Declared load profile		XL		Water heating energy efficiency	ηwh	87	%	
Daily electricity consumption	Qelec	9.164	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption Contact details:	AEC	1924	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-CQ16Pd/NhG3-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	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	15	kW	Seasonal space heating energy efficiency	ηs	159	%	
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	14.6	kW					
Degradation co-efficient (**)	Cdh	1.00	-	Tj = 2 ℃	COPd	2.31	_	
Tj = 7 ℃	Pdh	8.8	kW		CODI	2.20		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 °C	COPd	3.29	_	
Tj = 12℃	Pdh	3.9	kW	Tj = 12℃	CODI	5.47		
Degradation co-efficient (**)	Cdh	0.97	-	1j = 12 C	COPd	5.47	_	
Tj = bivalent temperature	Pdh 14.6 kW		kW	Tj = bivalent temperature	COPd	2.31	_	
Tj = operation limit temperature	Pdh	14.6 kW		Tj = operation limit temperature	COPd	2.31	_	
For air-to-water heat pumps: Tj = -15% (if $TOL < -20%$)	Pdh	NA kW		For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_	
Bivalent temperature	Tbiv	Tbiv 2 °C		For air-to-water heat pumps: Operation limit temperature	TOL	2	℃	
Civalina interval compaits for heating	Daniel NA	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	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	_	5015	m 3 /h	
Sound power level, outdoors	L_{wa}	68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		27.4	m 3 /h	
Annual energy consumption	Q_{HE}	4801	kWh	rate, outdoor heat exchanger		- NA		
		For l	heat pump co	ombination heater:				
Declared load profile		XL		Water heating energy efficiency	ηwh	113	%	
Daily electricity consumption	Qelec	7.036	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption Contact details:	AEC	1475	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ	
West Jinji Rd, Qianshan, Zhuhai, Gua	ngdong, Chi	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 neat pump combination heaters)			
Model(s): R-AQUA CGW-M 16 M		F "F"					
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			
Parameters declared for				Average climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	ηs	179	%
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	11.6	kW	Ti			
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.89	_
Tj = 2 ℃	Pdh	6.7	kW	T: - 2 °C	COD4	4.50	
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	4.50	_
Tj = 7 ℃	Pdh	4.5	kW	E: 7 %	CODI	5.02	
Degradation co-efficient (**)	Cdh	0.97	-	- Tj = 7 ℃	COPd	5.82	_
Tj = 12℃	Pdh	3.4	kW	T: 10°C	CODI	7.50	
Degradation co-efficient (**)	Cdh	0.95	-	Tj = 12°C	COPd	7.53	_
Tj = bivalent temperature	Pdh 11.6 kW		kW	Tj = bivalent temperature	COPd	2.89	_
Tj = operation limit temperature	Pdh	Pdh 11.1 kW		Tj = operation limit temperature	COPd	2.29	_
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	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	${\mathbb C}$
			Cycling interval efficiency	COPcyc	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	e	Supplemen	ntary heater		
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.9	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						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	5015	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}	5927	kWh	rate, outdoor heat exchanger		NA .	111 3 /11
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	110	%
Daily electricity consumption	Qelec	7.243	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1518	kWh	Annual fuel consumption	AFC	NA	GJ
//*) For heat nump angee heaters and h	ant numn and	mhination he	otars the rot	ed heat output Prated is equal to the de	sian load for	hanting Ddag	ianh

^(*) 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-CQ16Pd/NhG3-M	(пеат р	ump space n		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				Low-temperature application				
Parameters declared for				Colder climate condition				
Item	symbol	value	unit	Item	symbol value uni		unit	
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	ηs	158	%	
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	7.0	kW	-			· 5	
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	3.40	_	
Tj = 2 ℃	Pdh	4.2	kW	T' 2 °C	COD 1	5.04		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 2 ℃	COPd	5.04	_	
Tj = 7 ℃	Pdh	3.0	kW	Ti = 7 ℃	COD4	6.06		
Degradation co-efficient (**)	Cdh	0.95	-	1j = / C	COPd	0.00	_	
Tj = 12℃	Pdh	3.2	kW	Tj = 12℃	COPd	6.17		
Degradation co-efficient (**)	Cdh	0.95	_	11 – 12 C	COTU	0.17		
Tj = bivalent temperature	Pdh 9.7 kW		kW	Tj = bivalent temperature	COPd	2.38	_	
Tj = operation limit temperature	Pdh	7.6 kW		Tj = operation limit temperature	COPd	1.79	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	9.7	kW	For air-to-water heat pumps: $Tj = -15 \degree \text{C (if TOL} < -20 \degree \text{C)}$	COPd	2.38	-	
Bivalent temperature	Tbiv	-15	C	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	INA	K VV	Heating water operating limit temperature	WTOL	65	°C	
Power consumption in mod	des other tha	n active mod	le	Supplementary heater				
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	4.4	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	_	5015	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}	7293	kWh	rate, outdoor heat exchanger		117		
		For 1	heat pump co	ombination heater:				
Declared load profile		XL		Water heating energy efficiency	ηwh	87	%	
Daily electricity consumption	Qelec	9.164	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption Contact details:	AEC	1924	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ	
West Jinji Rd, Qianshan, Zhuhai, Guar	ngdong, Chi	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-CQ16Pd/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				
Parameters declared for				Warmer climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	ηs	241	%	
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		GOD 1	27.4		
Degradation co-efficient (**)	Cdh	NA	_	Tj = − 7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	13.7	kW	T: - 2 °C	COD4	2.00		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	2.90	_	
Tj = 7 ℃	Pdh	8.5	kW	Tj = 7 ℃	COPd	5.36		
Degradation co-efficient (**)	Cdh	0.98	-	1j - / C	COPa	5.50	_	
Tj = 12℃	Pdh	3.7	kW	Tj = 12°C	COPd	7.86		
Degradation co-efficient (**)	Cdh	0.95	_	1j - 12 C	COPa	7.80	_	
Tj = bivalent temperature	Pdh 13.7 kW		kW	Tj = bivalent temperature	COPd	2.90	_	
Tj = operation limit temperature	Pdh	dh 13.7 kW		Tj = operation limit temperature	COPd	2.90	_	
For air-to-water heat pumps: Tj = -15% (if $TOL < -20%$)	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	1 7 1 7 1		For air-to-water heat pumps: Operation limit temperature	TOL	2	°C	
		1 117	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	0.3	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	_	5015	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}	2995	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	113	%	
Daily electricity consumption	Qelec	7.036	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1475	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.

