	(heat p	ump space h	eaters and h	neat pump combination heaters)				
Model(s): GRS-CQ8.0PdG/NhH-E								
Air-to-water heat pump		Y		Low-temperature heat pump		Ν		
Water-to-water heat pump		Ν		Equipped with a supplementary heater		Y		
Brine-to-water heat pump		Ν		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	129	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance c indoor temperature 20 °C a				
$Tj = -7 \ ^{\circ}C$	Pdh	6.3	kW	T:- 7 %	COPI	2.24		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = -7 °C	COPd	2.24	_	
Tj = 2 ℃	Pdh	4.1	kW	T. 0.00	COD4	2.10		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 C	COPd	3.18	_	
Tj = 7 ℃	Pdh	4.3	kW	T. 7 %	CODI	1.20		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 7 C	COPd	4.26	_	
$Tj = 12^{\circ}C$	Pdh	5.0	kW	T. 10°C	CODI	5.02		
Degradation co-efficient (**)	Cdh	0.97	_	− Tj = 12 °C	COPd	5.93	_	
Tj = bivalent temperature	Pdh	6.3	kW	Tj = bivalent temperature	COPd	2.24	_	
Tj = operation limit temperature	Pdh	6.3	kW	Tj = operation limit temperature	COPd	1.79	-	
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 efficiency	COPcyc	NA	-	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	e	Supplemen	itary heater			
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	0.7	kW	
Thermostat-off mode	P <sub>TO</sub>	0.025	kW					
Standby mode	$\mathbf{P}_{\mathrm{SB}}$	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	Рск	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3300	m 3 /h	
Sound power level, indoors/outdoors	$L_{WA}$	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	$Q_{\rm HE}$	4371	kWh	rate, outdoor heat exchanger	_	INA	111 5 /11	
		For l	heat pump co	mbination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	89	%	
Daily electricity consumption	Qelec	5.632	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1152	kWh	Annual fuel consumption	AFC	NA	GJ	
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	(heat p	ump space h	eaters and h	neat pump combination heaters)				
Model(s): GRS-CQ8.0PdG/NhH-E								
Air-to-water heat pump		Y		Low-temperature heat pump		Ν		
Water-to-water heat pump		Ν		Equipped with a supplementary heater		Y		
Brine-to-water heat pump		Ν		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	112	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
$Tj = -7 \ ^{\circ}C$	Pdh	4.6	kW	T:- 7 %	COPI	2.64		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = -7 C	COPd	2.64	_	
Tj = 2 ℃	Pdh	3.3	kW	T. 0 %	COD4	2.24		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 C	COPd	3.24	_	
Tj = 7 ℃	Pdh	4.2	kW	T. 7 %	COPd	4.76		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 7 ℃		4.76	_	
Tj = 12℃	Pdh	4.7	kW	T: 10°C	CODI	5.00		
Degradation co-efficient (**)	Cdh	0.97	_	− Tj = 12 °C	COPd	5.86	_	
Tj = bivalent temperature	Pdh	5.9	kW	Tj = bivalent temperature	COPd	1.77	_	
Tj = operation limit temperature	Pdh	2.9	kW	Tj = operation limit temperature	COPd	1.26	-	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if TOL $< -20^{\circ}C$ )	Pdh	5.9	kW	For air-to-water heat pumps: Tj = $-15^{\circ}$ C (if TOL < $-20^{\circ}$ C )	COPd	1.77	_	
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C	
				Cycling interval efficiency	COPcyc	NA	-	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	e	Supplemer	itary heater			
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	4.1	kW	
Thermostat-off mode	P <sub>TO</sub>	0.025	kW					
Standby mode	$\mathbf{P}_{\mathrm{SB}}$	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	Рск	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3300	m 3 /h	
Sound power level, indoors/outdoors	$L_{WA}$	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	$Q_{\rm HE}$	5982	kWh	rate, outdoor heat exchanger	_	INA	111 5 / 11	
		For l	heat pump co	mbination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	78	%	
Daily electricity consumption	Qelec	6.401	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1314	kWh	Annual fuel consumption	AFC	NA	GJ	
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	(heat p	ump space h	eaters and h	neat pump combination heaters)				
Model(s): GRS-CQ8.0PdG/NhH-E								
Air-to-water heat pump		Y		Low-temperature heat pump		Ν		
Water-to-water heat pump		Ν		Equipped with a supplementary heater		Y		
Brine-to-water heat pump		Ν		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	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				
$Tj = -7 \ ^{\circ}C$	Pdh	NA	kW			_		
Degradation co-efficient (**)	Cdh	NA	-	− Tj = − 7 °C	COPd	NA	-	
Tj = 2 ℃	Pdh	8.1	kW		CODI	2.52		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 C	COPd	2.52	_	
Tj = 7 ℃	Pdh	5.3	kW		CODI			
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 7 C	COPd	3.38	_	
Tj = 12℃	Pdh	5.2	kW					
Degradation co-efficient (**)	Cdh	0.97	_	− Tj = 12 °C	COPd	5.42	_	
Tj = bivalent temperature	Pdh	8.1	kW	Tj = bivalent temperature	COPd	2.52	_	
Tj = operation limit temperature	Pdh	8.1	kW	Tj = operation limit temperature	COPd	2.52	_	
For air-to-water heat pumps: $Tj = -15^{\circ}$ (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	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	e	Supplemer	tary heater			
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P <sub>TO</sub>	0.025	kW					
Standby mode	P <sub>SB</sub>	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	P <sub>CK</sub>	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m 3 /h	
Sound power level, indoors/outdoors	$L_{WA}$	42/67	dB	For water- or brine-to-water heat		NIA	2 /h	
Annual energy consumption	$Q_{\rm HE}$	2645	kWh	pumps: Rated brine or water flow rate, outdoor heat exchanger	_	NA	m 3 /h	
		For l	heat pump co	mbination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	110	%	
Daily electricity consumption	Qelec	4.574	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	933	kWh	Annual fuel consumption	AFC	NA	GJ	
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	(heat p			requirements neat pump combination heaters)				
Model(s): GRS-CQ8.0PdG/NhH-E								
Air-to-water heat pump	Y			Low-temperature heat pump		Ν		
Water-to-water heat pump		Ν		Equipped with a supplementary heater		Y		
Brine-to-water heat pump		Ν		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	7	kW	Seasonal space heating energy efficiency	ηs	181	%	
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	6.2	kW	T: 7 %	CODI	2.04		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = -7 C	COPd	2.94	_	
Tj = 2 ℃	Pdh	3.9	kW	T: 0 %	CODI	4 30		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 2 C	COPd	4.39	_	
Tj = 7 ℃	Pdh	3.0	kW	T: 7 %	CODI	( 20		
Degradation co-efficient (**)	Cdh	0.95	_	− Tj = 7 °C	COPd	6.29	_	
Tj = 12℃	Pdh	3.6	kW	T: 10°C	CODI	0.42		
Degradation co-efficient (**)	Cdh	0.94	_	− Tj = 12°C	COPd	8.43	_	
Tj = bivalent temperature	Pdh	6.2	kW	Tj = bivalent temperature	COPd	2.94	_	
Tj = operation limit temperature	Pdh	5.9	kW	Tj = operation limit temperature	COPd	2.69	-	
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 efficiency	COPcyc	NA	-	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mod	des other that	n active mod	e	Supplemen	tary heater			
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	1.1	kW	
Thermostat-off mode	P <sub>TO</sub>	0.025	kW					
Standby mode	$\mathbf{P}_{\mathrm{SB}}$	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	Рск	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3300	m 3 /h	
Sound power level, indoors/outdoors	$L_{WA}$	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	$Q_{\text{HE}}$	3149	kWh	rate, outdoor heat exchanger		1474	111 5 / 11	
		For l	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	89	%	
Daily electricity consumption	Qelec	5.632	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1152	kWh	Annual fuel consumption	AFC	NA	GJ	
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	(heat p			requirements neat pump combination heaters)				
Model(s): GRS-CQ8.0PdG/NhH-E								
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		Ν		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	146	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
$Tj = -7 \ ^{\circ}C$	Pdh	4.5	kW		COL			
Degradation co-efficient (**)	Cdh	0.98	-	Tj = -7 C	COPd	3.26	_	
Tj = 2 ℃	Pdh	3.3	kW	T: - <b>2</b> %	CODI	4.26		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 2 C	COPd	4.26	_	
Tj = 7 ℃	Pdh	4.3	kW	T: - 7 °O	COPd	6.04		
Degradation co-efficient (**)	Cdh	0.96	-	− Tj = 7 °C	coru	6.04	_	
$Tj = 12^{\circ}C$	Pdh	4.9	kW	− Tj = 12 °C	COD4	7.20		
Degradation co-efficient (**)	Cdh	0.96	-	1j = 12 C	COPd	7.26	_	
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	2.63	-	
Tj = operation limit temperature	Pdh	4.5	kW	Tj = operation limit temperature	COPd	1.52	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if TOL $< -20^{\circ}C$ )	Pdh	5.8	kW	For air-to-water heat pumps: Tj = $-15^{\circ}$ C (if TOL $< -20^{\circ}$ C )	COPd	2.63	_	
Bivalent temperature	Tbiv	-15	Ĉ	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C	
	_			Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mod	des other that	n active mod	e	Supplemer	tary heater			
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	2.5	kW	
Thermostat-off mode	P <sub>TO</sub>	0.025	kW					
Standby mode	P <sub>SB</sub>	0.025	kW	Type of energy input		Electric	ic	
Crankcase heater mode	Рск	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m 3 /h	
Sound power level, indoors/outdoors	$L_{WA}$	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	$Q_{\text{HE}}$	4628	kWh	rate, outdoor heat exchanger			111 5 /11	
		For l	neat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	78	%	
Daily electricity consumption	Qelec	6.401	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1314	kWh	Annual fuel consumption	AFC	NA	GJ	
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	(heat p			requirements neat pump combination heaters)				
Model(s): GRS-CQ8.0PdG/NhH-E								
Air-to-water heat pump	Y			Low-temperature heat pump		N		
Water-to-water heat pump		Ν		Equipped with a supplementary heater		Y		
Brine-to-water heat pump		Ν		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	217	%	
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		COL			
Degradation co-efficient (**)	Cdh	NA	-	Tj = -7 C	COPd	NA	-	
Tj = 2 ℃	Pdh	8.2	kW	T. <b>2</b> %	COPI	2.59		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 C	COPd	3.58	_	
Tj = 7 ℃	Pdh	5.4	kW	T. 7 %	CODI	4.9.4		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 7 ℃	COPd	4.84	_	
Tj = 12℃	Pdh	5.1	kW	T: 10°C	CODI	7.00		
Degradation co-efficient (**)	Cdh	0.96	_	Tj = 12℃	COPd	7.08	_	
Tj = bivalent temperature	Pdh	8.2	kW	Tj = bivalent temperature	COPd	3.58	_	
Tj = operation limit temperature	Pdh	8.2	kW	Tj = operation limit temperature	COPd	3.58	_	
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	
	_			Cycling interval efficiency	COPcyc	NA	-	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other that	n active mod	e	Supplemer	tary heater			
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P <sub>TO</sub>	0.025	kW					
Standby mode	$\mathbf{P}_{\mathrm{SB}}$	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	P <sub>CK</sub>	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m 3 /h	
Sound power level, indoors/outdoors	$L_{WA}$	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	$Q_{\text{HE}}$	1947	kWh	rate, outdoor heat exchanger		1111	111 5 /11	
		For l	heat pump co	mbination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	110	%	
Daily electricity consumption	Qelec	4.574	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	933	kWh	Annual fuel consumption	AFC	NA	GJ	
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