Information requirements
(heat pump space heaters and heat pump combination heaters)

Model(s): R-AQUA CGW-ID 14 M1 + R-AQUA CGW-OU 14 M1

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	13	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 ℃	Pdh	11.6	kW	Tj = – 7 ℃	COPd	1.96	–
Degradation co-efficient (**)	Cdh	1.00	–				
Tj = 2 ℃	Pdh	7.3	kW	Tj = 2 ℃	COPd	3.33	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 7 ℃	Pdh	4.2	kW	Tj = 7 ℃	COPd	4.48	–
Degradation co-efficient (**)	Cdh	0.97	–				
Tj = 12℃	Pdh	3.1	kW	Tj = 12℃	COPd	5.65	–
Degradation co-efficient (**)	Cdh	0.95	–				
Tj = bivalent temperature	Pdh	11.6	kW	Tj = bivalent temperature	COPd	1.96	–
Tj = operation limit temperature	Pdh	11.0	kW	Tj = operation limit temperature	COPd	1.81	–
For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	Pdh	NA	kW	For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	COPd	NA	–
Bivalent temperature	Tbiv	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	60	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	2.0	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}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	5015	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	47/68	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}	7958	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	ηwh	112	%
Daily electricity consumption	Qelec	4.459	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	915	kWh	Annual fuel consumption	AFC	NA	GJ

(*) 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.

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Information requirements
(heat pump space heaters and heat pump combination heaters)

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Model(s): R-AQUA CGW-ID 14 M1 + R-AQUA CGW-OU 14 M1

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	12	kW	Seasonal space heating energy efficiency	η_s	175	%
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 ℃	Pdh	10.5	kW	Tj = – 7 ℃	COPd	2.64	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 ℃	Pdh	6.5	kW	Tj = 2 ℃	COPd	4.48	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 7 ℃	Pdh	4.2	kW	Tj = 7 ℃	COPd	5.75	–
Degradation co-efficient (**)	Cdh	0.97	–				
Tj = 12℃	Pdh	3.2	kW	Tj = 12℃	COPd	7.24	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = bivalent temperature	Pdh	10.5	kW	Tj = bivalent temperature	COPd	2.64	–
Tj = operation limit temperature	Pdh	10.7	kW	Tj = operation limit temperature	COPd	2.61	–
For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	Pdh	NA	kW	For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	COPd	NA	–
Bivalent temperature	Tbiv	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	60	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.3	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}	0.025	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	5015	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	47/68	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}	5552	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	112	%
Daily electricity consumption	Qelec	4.459	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	915	kWh	Annual fuel consumption	AFC	NA	GJ

(*) 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.