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

Model(s): R-AQUA CGW-IU 06 A1 + R-AQUA CGW-OU 06 A1

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	5	kW	Seasonal space heating energy efficiency	ηs	127.4	%
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	4.0	kW	Tj = − 7 ℃	COPd	2.03	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 ℃	Pdh	2.6	kW	Tj = 2 ℃	COPd	3.27	–
Degradation co-efficient (**)	Cdh	0.97	–				
Tj = 7 ℃	Pdh	2.4	kW	Tj = 7 ℃	COPd	4.20	–
Degradation co-efficient (**)	Cdh	0.96	–				
Tj = 12℃	Pdh	2.8	kW	Tj = 12℃	COPd	6.00	–
Degradation co-efficient (**)	Cdh	0.95	–				
Tj = bivalent temperature	Pdh	4.0	kW	Tj = bivalent temperature	COPd	2.03	–
Tj = operation limit temperature	Pdh	3.8	kW	Tj = operation limit temperature	COPd	1.38	–
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	1.2	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	–	3200	m 3 /h
Sound power level, indoors/outdoors	L_WA	42/62	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	3169	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	ηwh	107.5	%
Daily electricity consumption	Qelec	7.532	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1559	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.

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

Model(s): R-AQUA CGW-IU 06 A1 + R-AQUA CGW-OU 06 A1

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	6	kW	Seasonal space heating energy efficiency	ηs	178.7	%
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	5.3	kW	Tj = – 7 ℃	COPd	2.81	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 ℃	Pdh	3.3	kW	Tj = 2 ℃	COPd	4.68	–
Degradation co-efficient (**)	Cdh	0.96	–				
Tj = 7 ℃	Pdh	2.6	kW	Tj = 7 ℃	COPd	6.22	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = 12℃	Pdh	2.6	kW	Tj = 12℃	COPd	5.72	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = bivalent temperature	Pdh	5.3	kW	Tj = bivalent temperature	COPd	2.81	–
Tj = operation limit temperature	Pdh	4.2	kW	Tj = operation limit temperature	COPd	2.56	–
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	1.8	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	–	3200	m 3 /h
Sound power level, indoors/outdoors	L_WA	42/62	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	2729	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	ηwh	107.5	%
Daily electricity consumption	Qelec	7.532	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1559	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.