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

Model(s): R-AQUA CGW-IU 14 A1 + R-AQUA CGW-OU 14 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	13	kW	Seasonal space heating energy efficiency	ηs	137	%
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	12.0	kW	Tj = − 7 ℃	COPd	2.23	–
Degradation co-efficient (**)	Cdh	1.00	–				
Tj = 2 ℃	Pdh	7.2	kW	Tj = 2 ℃	COPd	3.33	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 7 ℃	Pdh	4.5	kW	Tj = 7 ℃	COPd	4.72	–
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	12.0	kW	Tj = bivalent temperature	COPd	2.23	–
Tj = operation limit temperature	Pdh	11.8	kW	Tj = operation limit temperature	COPd	2.00	–
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	–	5015	m 3 /h
Sound power level, indoors/outdoors	L_WA	42/68	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	8045	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	ηwh	105	%
Daily electricity consumption	Qelec	7.567	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1589	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 14 A1 + R-AQUA CGW-OU 14 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	12	kW	Seasonal space heating energy efficiency	ηs	183	%
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	11.0	kW	Tj = − 7 ℃	COPd	2.79	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 ℃	Pdh	6.2	kW	Tj = 2 ℃	COPd	4.48	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 7 ℃	Pdh	4.3	kW	Tj = 7 ℃	COPd	6.54	–
Degradation co-efficient (**)	Cdh	0.96	–				
Tj = 12℃	Pdh	3.2	kW	Tj = 12℃	COPd	7.24	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = bivalent temperature	Pdh	11.0	kW	Tj = bivalent temperature	COPd	2.79	–
Tj = operation limit temperature	Pdh	10.7	kW	Tj = operation limit temperature	COPd	2.74	–
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	42/68	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	5535	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	ηwh	105	%
Daily electricity consumption	Qelec	7.567	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1589	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.