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

Model(s): R-AQUA CGW-M 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	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	4.3	kW	Tj = – 7 ℃	COPd	2.47	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 ℃	Pdh	2.7	kW	Tj = 2 ℃	COPd	3.19	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 7 ℃	Pdh	1.7	kW	Tj = 7 ℃	COPd	4.89	–
Degradation co-efficient (**)	Cdh	0.95	–				
Tj = 12℃	Pdh	1.6	kW	Tj = 12℃	COPd	6.61	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = bivalent temperature	Pdh	4.3	kW	Tj = bivalent temperature	COPd	2.47	–
Tj = operation limit temperature	Pdh	3.6	kW	Tj = operation limit temperature	COPd	1.56	–
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	65	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P$_{OFF}$	0.025	kW	Rated heat output (*)	Psup	1.4	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, outdoors	L$_{WA}$	58	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$_{HE}$	2882	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	128	%
Daily electricity consumption	Qelec	6.253	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1311	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-M 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	199	%
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	5.1	kW	Tj = − 7 ℃	COPd	3.22	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 ℃	Pdh	3.4	kW	Tj = 2 ℃	COPd	4.86	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 7 ℃	Pdh	2.0	kW	Tj = 7 ℃	COPd	7.09	–
Degradation co-efficient (**)	Cdh	0.95	–				
Tj = 12℃	Pdh	1.7	kW	Tj = 12℃	COPd	8.49	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = bivalent temperature	Pdh	5.1	kW	Tj = bivalent temperature	COPd	3.22	–
Tj = operation limit temperature	Pdh	4.4	kW	Tj = operation limit temperature	COPd	2.46	–
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	65	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_OFF	0.025	kW	Rated heat output (*)	Psup	1.6	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, outdoors	L_WA	58	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	2386	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	128	%
Daily electricity consumption	Qelec	6.253	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1311	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.