	(heat p			requirements leat pump combination heaters)						
Model(s): R-AQUA CGW-ID 12 M	1 + R-AQUA	A CGW-OU	12 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	11	kW	Seasonal space heating energy efficiency	ηs	126	%			
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 °C	Pdh	9.9	kW	- Tj = − 7 °C	CODI	2.04	_			
Degradation co-efficient (**)	Cdh	0.99	-		COPd					
Tj = 2 °C	Pdh	5.4	kW	Tj = 2 ℃	COPd	2.98	_			
Degradation co-efficient (**)	Cdh	0.99	_	1j = 2 C	СОРИ					
Tj = 7 ℃	Pdh	3.7	kW	- Tj = 7 ℃	COPd	4.63	_			
Degradation co-efficient (**)	Cdh	0.97	_							
Tj = 12℃	Pdh	3.1	kW	Ti − 12°C	COPd	5.61	-			
Degradation co-efficient (**)	Cdh	0.96	_	Tj = 12℃						
Tj = bivalent temperature	Pdh	9.9	kW	Tj = bivalent temperature	COPd	2.04	_			
Tj = operation limit temperature	Pdh	10.1	kW	Tj = operation limit temperature	COPd	1.89	_			
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	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$			
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	СОРсус	NA	_			
				Heating water operating limit temperature	WTOL	60	$^{\circ}$			
Power consumption in mo	Supplementary heater									
Off mode	$P_{\rm OFF}$	0.025	kW	Rated heat output (*)	Psup	0.9	kW			
Thermostat-off mode	P_{TO}	0.025	kW							
Standby mode	P_{SB}	0.025	kW	Type of energy input	Electric					
Crankcase heater mode	P_{CK}	0.025	kW							
Other										
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}	7028	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.

	(heat p			requirements teat pump combination heaters)						
Model(s): R-AQUA CGW-ID 12 M	1 + R-AQUA	A CGW-OU	12 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	11	kW	Seasonal space heating energy efficiency	ηs	176	%			
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 °C	Pdh	9.7	kW	Tj = −7 °C	GODI	2.80	_			
Degradation co-efficient (**)	Cdh	0.99	-		COPd					
Tj = 2 °C	Pdh	6.1	kW	Tj = 2 ℃	CODI	4.38	_			
Degradation co-efficient (**)	Cdh	0.98	-		COPd					
Tj = 7 °C	Pdh	3.9	kW	- Tj = 7 °C	COPd	6.04	-			
Degradation co-efficient (**)	Cdh	0.96	-							
Tj = 12℃	Pdh	3.2	kW	T: - 12°C	COPd	7.19	_			
Degradation co-efficient (**)	Cdh	0.95	-	Tj = 12℃						
Tj = bivalent temperature	Pdh	9.7	kW	Tj = bivalent temperature	COPd	2.80	-			
Tj = operation limit temperature	Pdh	8.6	kW	Tj = operation limit temperature	COPd	2.34	-			
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	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$			
	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	_			
Cycling interval capacity for heating				Heating water operating limit temperature	WTOL	60	$^{\circ}$			
Power consumption in mo	Supplementary heater									
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	2.4	kW			
Thermostat-off mode	P _{TO}	0.025	kW							
Standby mode	P_{SB}	0.025	kW	Type of energy input	Electric					
Crankcase heater mode	P_{CK}	0.025	kW							
Other										
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}	5065	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.