	(heat p			requirements leat pump combination heaters)							
Model(s): R-AQUA CGW-IU 10 A				,							
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	8	kW	Seasonal space heating energy efficiency	ηs	127	%				
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	6.9	kW	Tj = −7 °C	CODI	2.12	_				
Degradation co-efficient (**)	Cdh	0.99	-		COPd						
Tj = 2 ℃	Pdh	4.2	kW	Tj = 2 ℃	COPd	3.09	_				
Degradation co-efficient (**)	Cdh	0.98	-	11-2 0	coru						
Tj = 7 ℃	Pdh	4.3	kW	- Tj = 7 ℃	COPd	4.34	_				
Degradation co-efficient (**)	Cdh	0.97	-		COLU						
Tj = 12°C	Pdh	4.9	kW	Tj = 12℃	COPd	5.91	_				
Degradation co-efficient (**)	Cdh	0.97	_	1j = 12 C							
Tj = bivalent temperature	Pdh	6.9	kW	Tj = bivalent temperature	COPd	2.12	_				
Tj = operation limit temperature	Pdh	6.8	kW	Tj = operation limit temperature	COPd	1.75	_				
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	COPcyc	NA	-				
				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	1.2	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	-	3300	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	$Q_{\rm HE}$	5091	kWh								
For heat pump combination heater:											
Declared load profile		XL		Water heating energy efficiency	ηwh	111	%				
Daily electricity consumption	Qelec	7.604	kWh	Daily fuel consumption	Qfuel	NA	kWh				
Annual electricity consumption	AEC	1510	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-IU 10 A	1 + R-AQUA	CGW-OU 1	0 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	9	kW	Seasonal space heating energy efficiency	ηs	181	%			
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	7.7	kW	Tj = −7 °C	GODI	2.87	_			
Degradation co-efficient (**)	Cdh	0.99	_		COPd					
Tj = 2 °C	Pdh	4.8	kW	T: - 2 °C	COPd	4.34	-			
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃						
Tj = 7 °C	Pdh	3.1	kW	- Tj = 7 °C	COPd	6.58	-			
Degradation co-efficient (**)	Cdh	0.95	-							
Tj = 12℃	Pdh	3.7	kW	T: _ 12°C	COPd	8.37	-			
Degradation co-efficient (**)	Cdh	0.94	-	Tj = 12℃						
Tj = bivalent temperature	Pdh	7.7	kW	Tj = bivalent temperature	COPd	2.87	-			
Tj = operation limit temperature	Pdh	7.1	kW	Tj = operation limit temperature	COPd	2.59	-			
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	${\mathbb C}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$			
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	_			
				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	1.9	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	-	3300	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}	4038	kWh							
For heat pump combination heater:										
Declared load profile		XL		Water heating energy efficiency	ηwh	111	%			
Daily electricity consumption	Qelec	7.604	kWh	Daily fuel consumption	Qfuel	NA	kWh			
Annual electricity consumption	AEC	1510	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.