	(heat p			requirements neat pump combination heaters)				
Model(s): R-AQUA CGW-IU 12 A1	+ R-AQUA	A CGW-OU	2 A1					
Air-to-water heat pump	Y			Low-temperature heat pump	Ν			
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 outdoor tem								
Tj = -7 °C	Pdh	9.6	kW			2.04		
Degradation co-efficient (**)	Cdh	0.99	_	− Tj = − 7 °C	COPd		-	
Tj = 2 ℃	Pdh	5.6	kW		COPd	3.03	-	
Degradation co-efficient (**)	Cdh	0.99	_					
Tj = 7 ℃	Pdh	3.9	kW	- Tj = 7 °C	COPd	4.44	_	
Degradation co-efficient (**)	Cdh	0.97	_					
Tj = 12℃	Pdh	3.1	kW	T: 10°0	COPd	5.61	_	
Degradation co-efficient (**)	Cdh	0.96	_	$Tj = 12^{\circ}C$				
Tj = bivalent temperature	Pdh	9.6	kW	Tj = bivalent temperature	COPd	2.04	_	
Tj = operation limit temperature	Pdh	10.1	kW	Tj = operation limit temperature	COPd	1.96	-	
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	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	-	
				Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mod	n active mod	Supplementary heater						
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	0.9	kW	
Thermostat-off mode	P _{TO}	0.025	kW					
Standby mode	\mathbf{P}_{SB}	0.025	kW	Type of energy input	Electric			
Crankcase heater mode	Рск	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	$L_{W\!A}$	42/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	$Q_{\rm HE}$	6985	kWh	rate, outdoor heat exchanger		11.3/11		
		For	heat pump co	ombination 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.

	(heat p			requirements neat pump combination heaters)				
Model(s): R-AQUA CGW-IU 12 A1	+ R-AQUA	CGW-OU	2 A1					
Air-to-water heat pump	Y			Low-temperature heat pump	Ν			
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	182	%	
Declared capacity for heating for part outdoor tem	Declared coefficient of performance or primary energy ratio for part load a indoor temperature 20 °C and outdoor temperature Tj							
Tj = − 7 °C	Pdh	9.8	kW	-		_		
Degradation co-efficient (**)	Cdh	0.99	_	− Tj = − 7 °C	COPd	2.89	-	
Tj = 2 ℃	Pdh	6.2	kW			4.48	_	
Degradation co-efficient (**)	Cdh	0.98	_		COPd			
Tj = 7 ℃	Pdh	3.6	kW	- Tj = 7 °C	COPd	6.40	_	
Degradation co-efficient (**)	Cdh	0.96	_					
Tj = 12℃	Pdh	3.2	kW	T: 10%	COPd	7.19	_	
Degradation co-efficient (**)	Cdh	0.95	_	$Tj = 12^{\circ}C$				
Tj = bivalent temperature	Pdh	9.8	kW	Tj = bivalent temperature	COPd	2.89	-	
Tj = operation limit temperature	Pdh	8.6	kW	Tj = operation limit temperature	COPd	2.47	-	
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° C (if TOL < -20° C)	COPd	NA	_	
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	_	
				Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mod	n active mod	Supplementary heater						
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	2.4	kW	
Thermostat-off mode	P _{TO}	0.025	kW					
Standby mode	\mathbf{P}_{SB}	0.025	kW	Type of energy input	Electric			
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		NA	m 3 /h	
Annual energy consumption	$Q_{\rm HE}$	4967	kWh	pumps: Rated brine or water flow rate, outdoor heat exchanger	- 184		111 3 /n	
		For	heat pump co	mbination 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.