	(heat p			requirements neat pump combination heaters)				
Model(s): R-AQUA CGW-IU 12 M	1 + R-AQUA	A CGW-OU	12 M1					
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	Declared coefficient of performance or primary energy ratio for part load a indoor temperature 20 °C and outdoor temperature Tj							
Tj = − 7 °C	Pdh	9.9	kW	-				
Degradation co-efficient (**)	Cdh	0.99	_	− Tj = − 7 °C	COPd	2.04	-	
Tj = 2 ℃	Pdh	5.4	kW	− Tj = 2 °C	COPd	2.98	-	
Degradation co-efficient (**)	Cdh	0.99	_					
Tj = 7 ℃	Pdh	3.7	kW	- Tj = 7 °C	COPd	4.63	_	
Degradation co-efficient (**)	Cdh	0.97	_					
$Tj = 12^{\circ}C$	Pdh	3.1	kW	- Tj = 12°C	COPd	5.61	-	
Degradation co-efficient (**)	Cdh	0.96	_					
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	°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	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	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	$Q_{\rm HE}$	7028	kWh				11 5 /11	
		For l	heat pump co	ombination heater:				
Declared load profile		XL		Water heating energy efficiency	ηwh	108	%	
Daily electricity consumption	Qelec	7.393	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1542	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 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 outdoor tem								
Tj = − 7 °C	Pdh	9.7	kW	-				
Degradation co-efficient (**)	Cdh	0.99	_	− Tj = − 7 °C	COPd	2.80	-	
Tj = 2 ℃	Pdh	6.1	kW	- Tj = 2 °C	COPd	4.38	_	
Degradation co-efficient (**)	Cdh	0.98	_					
Tj = 7 ℃	Pdh	3.9	kW	− Tj = 7 °C	COPd	6.04	_	
Degradation co-efficient (**)	Cdh	0.96	_					
$Tj = 12^{\circ}C$	Pdh	3.2	kW	T. 10°C	COPd	7.19	_	
Degradation co-efficient (**)	Cdh	0.95	_	$Tj = 12^{\circ}C$				
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	°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 mo	n active mod	Supplementary heater						
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.025	kW	Rated heat output (*)	Psup	1.1	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 pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	$Q_{\rm HE}$	5065	kWh	rate, outdoor heat exchanger		11/2	111 5 /11	
		For l	heat pump co	ombination heater:				
Declared load profile	XL			Water heating energy efficiency	ηwh	108	%	
Daily electricity consumption	Qelec	7.393	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1542	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.