Information requirements (heat pump space heaters and heat pump combination heaters)												
Model(s): R-AQUA CGW-IU 16 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	13	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 °C	Pdh	12.0	kW	Tj = −7 °C	CODI	2.23	_					
Degradation co-efficient (**)	Cdh	1.00	-		COPd							
Tj = 2 °C	Pdh	7.2	kW	Tj = 2 ℃	COPd	3.33	-					
Degradation co-efficient (**)	Cdh	0.99	_	1,1-2 C	COTU							
Tj = 7 ℃	Pdh	4.5	kW	Tj = 7 ℃	COPd	4.72	_					
Degradation co-efficient (**)	Cdh	0.97	_	1j - / C								
Tj = 12℃	Pdh	3.1	kW	Tj = 12℃	COPd	5.65	_					
Degradation co-efficient (**)	Cdh	0.95	_	1) - 12 C								
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	2.23	-					
Tj = operation limit temperature	Pdh	11.8	kW	Tj = operation limit temperature	COPd	2.00	_					
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	$^{\circ}$ C					
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	-	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 _{HE}	8045	kWh									
For heat pump combination 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 leat pump combination heaters)						
Model(s): R-AQUA CGW-IU 16 A	1 + R-AQUA	CGW-OU 1	16 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	13	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	11.6	kW	Tj = −7 °C	GODI	2.76				
Degradation co-efficient (**)	Cdh	0.99	-		COPd		_			
Tj = 2 °C	Pdh	6.5	kW	T: - 2 °C	CODI	4.40	-			
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPd					
Tj = 7 °C	Pdh	4.5	kW	- Tj = 7 ℃	COPd	6.63	-			
Degradation co-efficient (**)	Cdh	0.96	-							
Tj = 12℃	Pdh	3.3	kW	T: _ 12°C	COPd	7.34	-			
Degradation co-efficient (**)	Cdh	0.94	-	Tj = 12℃						
Tj = bivalent temperature	Pdh	11.6	kW	Tj = bivalent temperature	COPd	2.76	-			
Tj = operation limit temperature	Pdh	10.7	kW	Tj = operation limit temperature	COPd	2.74	-			
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	2.3	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}	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}	5886	kWh							
For heat pump combination 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.