	(heat p			requirements neat pump combination heaters)				
Model(s): R-AQUA CGW-M 16 A1		F "F"						
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	14	kW	Seasonal space heating energy efficiency	ηs	145	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = −7 °C	Pdh	12.3	kW	Tj = −7 °C	COPd	2.18		
Degradation co-efficient (**)	Cdh	1.00	_				_	
Tj = 2 ℃	Pdh	6.9	kW	T: 0.00	CODI	3.81	_	
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd			
Tj = 7 ℃	Pdh	4.5	kW	T: - 7 °C	COPd	4.56	_	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 7 ℃				
Tj = 12℃	Pdh	3.0	kW	- Tj = 12℃	COPd	7.07	_	
Degradation co-efficient (**)	Cdh	0.94	_					
Tj = bivalent temperature	Pdh	12.3	kW	Tj = bivalent temperature	COPd	2.18	_	
Tj = operation limit temperature	Pdh	8.5	kW	Tj = operation limit temperature	COPd	1.41	_	
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	65	$^{\circ}$ C	
Power consumption in mod	des other tha	n active mod	Supplemen	ntary heater				
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	5.5	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	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	5015	m 3 /h	
Sound power level, outdoors	L_{WA}	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}	7768	kWh					
		For 1	heat pump co	ombination heater:				
Declared load profile		XL		Water heating energy efficiency	ηwh	110	%	
Daily electricity consumption	Qelec	7.243	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1518	kWh	Annual fuel consumption	AFC	NA	GJ	
(*) For heat nump chace heaters and h	ant numn coo	mhination ha	otars the rot	ed heat output Prated is equal to the de	sian load for	hanting Ddas	ianh	

^(*) 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-M 16 A1		P ~P						
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	14	kW	Seasonal space heating energy efficiency	ηs	184	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	12.2	kW	-				
Degradation co-efficient (**)	Cdh	0.99	_	Tj=-7 ℃	COPd	2.68	_	
Tj = 2 ℃	Pdh	7.1	kW	T: - 2 °C		4.39	_	
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 °C	COPd			
Tj = 7 ℃	Pdh	4.7	kW	- Tj = 7 ℃	COPd	6.86	_	
Degradation co-efficient (**)	Cdh	0.96	_					
Tj = 12℃	Pdh	3.5	kW	- Tj = 12℃	COPd	10.20	_	
Degradation co-efficient (**)	Cdh	0.93	-			10.30		
Tj = bivalent temperature	Pdh	12.2	kW	Tj = bivalent temperature	COPd	2.68	_	
Tj = operation limit temperature	Pdh	11.2	kW	Tj = operation limit temperature	COPd	2.38	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	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	$^{\circ}$	
	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating				Heating water operating limit temperature	WTOL	65	$^{\circ}$	
Power consumption in mo	des other tha	n active mod	Supplemen	ntary heater				
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	2.8	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	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	5015	m 3 /h	
Sound power level, outdoors	L_{WA}	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}	6072	kWh					
		For l	heat pump co	ombination heater:				
Declared load profile		XL		Water heating energy efficiency	ηwh	110	%	
Daily electricity consumption	Qelec	7.243	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1518	kWh	Annual fuel consumption	AFC	NA	GJ	
/*> For heat numn space heaters and h	ant numn coo	mhination ha	otars the rot	ed heat output Prated is equal to the de	sian load for	hanting Ddag	ionh	

^(*) 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.