



Technical parameters														
Model(s):			Outdoor unit: HLT16MONO-3S / Indoor unit: HLT-9(12)-250-3S											
Air-to-water heat pump:			YES											
Water-to-water heat pump:			NO											
Brine-to-water heat pump:			NO											
Low-temperature heat pump:			YES											
Equipped with a supplementary heater:			YES											
Heat pump combination heater:			YES											
Declared climate condition:			AVERAGE											
Parameters are declared for low-temperature application.														
Item				Symbol	Value	Unit	Item				Symbol	Value	Unit	
Rated heat output (*)				P <sub>rated</sub>	12.55	kW	Seasonal space heating energy efficiency				η <sub>s</sub>	187	%	
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>						Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>								
T <sub>j</sub> = − 7 °C				P <sub>dh</sub>	11.11	kW	T <sub>j</sub> = − 7 °C				COP <sub>d</sub>	3.05	-	
T <sub>j</sub> = + 2 °C				P <sub>dh</sub>	7.53	kW	T <sub>j</sub> = + 2 °C				COP <sub>d</sub>	4.89	-	
T <sub>j</sub> = + 7 °C				P <sub>dh</sub>	5.87	kW	T <sub>j</sub> = + 7 °C				COP <sub>d</sub>	6.05	-	
T <sub>j</sub> = + 12 °C				P <sub>dh</sub>	6.83	kW	T <sub>j</sub> = + 12 °C				COP <sub>d</sub>	7.94	-	
T <sub>j</sub> = bivalent temperature				P <sub>dh</sub>	11.11	kW	T <sub>j</sub> = bivalent temperature				COP <sub>d</sub>	3.05	-	
T <sub>j</sub> = operation limit temperature				P <sub>dh</sub>	10.21	kW	T <sub>j</sub> = operation limit temperature				COP <sub>d</sub>	2.9	-	
For air-to-water heat pumps: T <sub>j</sub> = − 15 °C				P <sub>dh</sub>	-	kW	For air-to-water heat pumps: T <sub>j</sub> = − 15 °C				COP <sub>d</sub>	-	-	
Bivalent temperature				T <sub>biv</sub>	-7	°C	For air-to-water heat pumps: Operation limit temperature				TOL	-10	°C	
Cycling interval capacity for heating				P <sub>cych</sub>	-	kW	Cycling interval efficiency				COP <sub>cyc</sub>	-	-	
Degradation co-efficient (**)				C <sub>dh</sub>	0.9	-	Heating water operating limit temperature				WTOL	60	°C	
Power consumption in modes other than active mode						Supplementary heater								
Off mode				P <sub>OFF</sub>	0.028	kW	Rated heat output (*)				P <sub>sup</sub>	2.348	kW	
Thermostat-off mode				P <sub>TO</sub>	0.020	kW	Type of energy input						Electrical	
Standby mode				P <sub>SB</sub>	0.030	kW								
Crankcase heater mode				P <sub>CK</sub>	0.020	kW								
Other items														
Capacity control			Variable			For air-to-water heat pumps: Rated air flow rate, outdoors			-	6300	m <sup>3</sup> /h			
Sound power level, indoors/ outdoors			L <sub>WA</sub>	37/56	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			-	-	m <sup>3</sup> /h			
Annual energy consumption			Q <sub>HE</sub>	5475	kWh									
For heat pump combination heater:														
Declared load profile			XL			Water heating energy efficiency			η <sub>wh</sub>	127.9	%			
Daily electricity consumption			Q <sub>elec</sub>	6.193	kWh	Daily fuel consumption			Q <sub>fuel</sub>	-	kWh			
Annual electricity consumption			AEC	1310	kWh	Annual fuel consumption			AFC	-	GJ			
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(*) 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.														