



Technical parameters													
Model(s):			Outdoor unit: HLT16MONO-3S / Indoor unit: HLT-9(12)-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:			NO										
Declared climate condition:			AVERAGE										
Parameters are declared for low-temperature application.													
Item				Symbol	Value	Unit	Item				Symbol	Value	Unit
Rated heat output (*)				P _{rated}	12.55	kW	Seasonal space heating energy efficiency				η _s	187	%
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j						Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _j							
T _j = − 7 °C				P _{dh}	11.11	kW	T _j = − 7 °C				COP _d	3.05	-
T _j = + 2 °C				P _{dh}	7.53	kW	T _j = + 2 °C				COP _d	4.89	-
T _j = + 7 °C				P _{dh}	5.87	kW	T _j = + 7 °C				COP _d	6.05	-
T _j = + 12 °C				P _{dh}	6.83	kW	T _j = + 12 °C				COP _d	7.94	-
T _j = bivalent temperature				P _{dh}	11.11	kW	T _j = bivalent temperature				COP _d	3.05	-
T _j = operation limit temperature				P _{dh}	10.21	kW	T _j = operation limit temperature				COP _d	2.9	-
For air-to-water heat pumps: T _j = − 15 °C				P _{dh}	-	kW	For air-to-water heat pumps: T _j = − 15 °C				COP _d	-	-
Bivalent temperature				T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature				TOL	-10	°C
Cycling interval capacity for heating				P _{cych}	-	kW	Cycling interval efficiency				COP _{cyc}	-	-
Degradation co-efficient (**)				C _{dh}	0.9	-	Heating water operating limit temperature				WTOL	60	°C
Power consumption in modes other than active mode						Supplementary heater							
Off mode				P _{OFF}	0.028	kW	Rated heat output (*)				P _{sup}	2.348	kW
Thermostat-off mode				P _{TO}	0.020	kW	Type of energy input				Electrical		
Standby mode				P _{SB}	0.030	kW							
Crankcase heater mode				P _{CK}	0.020	kW							
Other items													
Capacity control			Variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	6300	m³/h	
Sound power level, indoors/ outdoors			L _{WA}	37/56	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h	
Annual energy consumption			Q _{HE}	5475	kWh								
For heat pump combination heater:													
Declared load profile			-			Water heating energy efficiency				η _{wh}	-	%	
Daily electricity consumption			Q _{elec}	-	kWh	Daily fuel consumption				Q _{fuel}	-	kWh	
Annual electricity consumption			AEC	-	kWh	Annual fuel consumption				AFC	-	GJ	
Contact details			JSC "BALTIC REFRIGERATION GROUP" S. Zukauskio 11, Ramuciai, LT-54464 Kaunas distr., Lithuania										
(*) 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.													