PRODUCT FICHE

NØRDIS air-to-water heat pump



Energy labelling regulation: (EU)811/2013 Ecodesign regulation: (EU)813/2013

		Tec	hnical _l	parameters				
Model(s):			Outdoor unit: HLT12MONO-S / Indoor unit: HLT-9-250-3S					
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-temperatur	e applicat	ion.						
'								
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit	
Rated heat output (*)	P _{rated}	8.97	kW	Seasonal space heating energy efficiency	ης	188	%	
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _i				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _i				
T _i = -7 °C	P_{dh}	7.93	kW	T _i = -7 °C	COP _d	2.87	-	
T _i = + 2 °C	P _{dh}	5.06	kW	T _i = + 2 °C	COPd	4.71	-	
T _i = + 7 °C	P _{dh}	4.51	kW	T _i = + 7 °C	COP _d	6.83	-	
T _i = + 12 °C	P _{dh}	4.23	kW	T _i = + 12 °C	COP _d	8.4	-	
T _i = bivalent temperature	P _{dh}	7.93	kW	T _i = bivalent temperature	COP _d	2.87	-	
T _i = operation limit temperature	P _{dh}	7.22	kW	T _i = operation limit temperature	COP _d	2.65	-	
For air-to-water heat pumps: T _i = – 15 °C	P _{dh}	-	kW	For air-to-water heat pumps: $T_i = -15$ °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 act	ive mode			Supplementary heater				
Off mode	P _{OFF}	0.023	kW					
Thermostat-off mode	P _{TO}	0.02	kW	Rated heat output (*)	P_{sup}	1.752	kW	
Standby mode	P _{SB}	0.03	kW				!	
Crankcase heater mode	P _{CK}	0.02	kW	pe of energy input Electrical				
	CK							
Other items	T			T				
Capacity control	ι	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	34/56	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat	-	-	m³/h	
Annual energy consumption	Q_{HE}	3889	kWh	exchanger				
For heat pump combination heater:								
Declared load profile L				Water heating energy efficiency	η_{wh}	123.7	%	
Daily electricity consumption	Q _{elec}	3.907	kWh	Daily fuel consumption	Q _{fuel}	-	kWh	
Annual electricity consumption	AEC	827	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details	JSC "BALTIC REFRIGERATION GROUP" S. Zukausko 11, Ramuciai, LT-54464 Kaunas distr., Lithuania							
	plementa	ry heate	r Psup is	the rated heat output Prated is equal to the design equal to the supplementary capacity for heating tion coefficient is $C_{dh} = 0.9$.	_	or heatin	ng	