PRODUCT FICHE
NØRDIS air-to-water heat pump

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

Technical parameters

Model(s):	Outdoor unit: HLT9MONO-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-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	*6.93*	kW	Seasonal space heating energy efficiency	η_s	*191*	%
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}	*6.13*	kW	T_j = – 7 °C	COP_d	*3.09*	-
T_j = + 2 °C	P_{dh}	*3.83*	kW	T_j = + 2 °C	COP_d	*4.67*	-
T_j = + 7 °C	P_{dh}	*3.29*	kW	T_j = + 7 °C	COP_d	*6.81*	-
T_j = + 12 °C	P_{dh}	*3.89*	kW	T_j = + 12 °C	COP_d	*9.5*	-
T_j = bivalent temperature	P_{dh}	*6.13*	kW	T_j = bivalent temperature	COP_d	*3.09*	-
T_j = operation limit temperature	P_{dh}	*5.64*	kW	T_j = operation limit temperature	COP_d	*2.98*	-
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	*56*	°C

Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	*0.023*	kW	Rated heat output (*)	P_{sup}	*1.292*	kW
Thermostat-off mode	P_{TO}	*0.02*	kW				
Standby mode	P_{SB}	*0.03*	kW	Type of energy input	*Electrical*		
Crankcase heater mode	P_{CK}	*0.02*	kW				

Other items							
Capacity control	*Variable*			For air-to-water heat pumps: Rated air flow rate, outdoors	-	*3150*	m^3/h
Sound power level, indoors/ outdoors	L_{WA}	*33/54*	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	*2953*	kWh				

For heat pump combination heater:							
Declared load profile	*L*			Water heating energy efficiency	η_{wh}	*129.7*	%
Daily electricity consumption	Q_{elec}	*3.734*	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	*789*	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(T_j).
(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.