PRODUCT FICHE

NØRDIS air-to-water heat pump



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

		160		parameters				
Model(s):			Outdoor unit: HOP8WODU / Indoor unit: HOP100/190IDU					
Air-to-water heat pump:			YES					
Water-to-water heat pump:		NO						
Brine-to-water heat pump:		NO						
Low-temperature heat pump:		NO						
Equipped with a supplementary heater:				YES				
Heat pump combination heater:		YES						
Declared climate condition:			AVERAGE					
Parameters are declared for medium-tempe	rature app	lication.						
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni	
Rated heat output (*)	P_{rated}	6.6	kW	Seasonal space heating energy efficiency	η_s	131.5	%	
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}	5.84	kW	T _i = -7 °C	COP _d	2.16	-	
Τ _i = + 2 °C	P _{dh}	3.75	kW	T _i = + 2 °C	COP _d	3.30	_	
Γ _i = + 7 °C	P _{dh}	2.42	kW	T _i = + 7 °C	COP _d	4.34	_	
Γ _i = + 12 °C	P _{dh}	1.39	kW	T _i = + 12 °C	COP _d	5.33	_	
Γ _i = bivalent temperature	P _{dh}	5.84	kW	T _i = bivalent temperature	COP _d	2.16	_	
Γ _i = operation limit temperature	P _{dh}	4.90	kW	T _i = operation limit temperature	COP _d	1.84	_	
For air-to-water heat pumps: $T_i = -15 ^{\circ}\text{C}$	P _{dh}	4.71	kW	For air-to-water heat pumps: $T_i = -15$ °C	COP _d	1.90	_	
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	65	°C	
ower consumption in modes other than active mode				Supplementary heater				
Off mode	P _{OFF}	0.014	kW	Rated heat output (*)	P_{sup}	1.69	kW	
Thermostat-off mode	P _{TO}	0.014	kW					
Standby mode	P _{SB}	0.024	kW	Type of energy input	Electrical			
Crankcase heater mode	P _{CK}	0	kW					
Other items								
Capacity control	ı	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/	
Sound power level, indoors/ outdoors	L _{WA}	40/59	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat	-	-	m³/	
Annual energy consumption	Q_{HE}	4056	kWh	exchanger				
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	η_{wh}	125	%	
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl	
Annual electricity consumption	AEC	820	kWh	Annual fuel consumption	AFC	-	GJ	
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Contact details		'BALTIC REFRIGERATION GROUP" Ikausko 11, Ramuciai, LT-54464 Kaunas distr., Lithuania						
	plementa	ry heate	r Psup is	the rated heat output Prated is equal to the desi	_	or heatir	ng	