PRODUCT FICHE

NØRDIS air-to-water heat pump



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

		Tec	ا hnical	parameters				
Model(s):			Outdoor unit: HOP16WODU3 / Indoor unit: HOP160WIDU3					
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:			NO					
Declared climate condition:			AVERAGE					
Parameters are declared for medium-tempe	rature app	lication.						
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	P_{rated}	13.0	kW	Seasonal space heating energy efficiency	η_{s}	133.2	%	
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_j				
T _i = - 7 °C	P_{dh}	11.52	kW	T _i = -7 °C	COP_d	1.99	-	
T _i = + 2 °C	P_{dh}	7.18	kW	T _i = + 2 °C	COP _d	3.34	-	
T _i = + 7 °C	P _{dh}	4.67	kW	T _i = + 7 °C	COP _d	4.61	-	
T _i = + 12 °C	P _{dh}	3.31	kW	T _i = + 12 °C	COP _d	6.07	-	
T _i = bivalent temperature	P_{dh}	11.52	kW	T _i = bivalent temperature	COP _d	1.99	-	
T _i = operation limit temperature	P _{dh}	10.33	kW	T _i = operation limit temperature	COP _d	1.8	-	
For air-to-water heat pumps: T _i = - 15 °C	P_{dh}	9.6	kW	For air-to-water heat pumps: T _i = -15 °C	COP _d	1.87	-	
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	
Power consumption in modes other than act	ive mode			Supplementary heater				
Off mode	P _{OFF}	0.020	kW					
Thermostat-off mode	P _{TO}	0.020	kW	Rated heat output (*)	P_{sup}	2.67	kW	
Standby mode	P _{SB}	0.030	kW					
Crankcase heater mode	P _{CK}	0	kW	Type of energy input	Electrical			
Other items	_							
Capacity control	l	/ariable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	43/68	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat	-	_	m³/ł	
Annual energy consumption	Q_{HE}	7896	kWh	exchanger			, .	
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. Zukausko 11, Ramuciai, LT-54464 Kaunas distr., Lithuania							
	plementa	ry heate	r Psup is	the rated heat output Prated is equal to the desi equal to the supplementary capacity for heating tion coefficient is $C_{dh} = 0.9$.	_	or heati	ng	