

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: HOP6WODU / 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-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P _{rated}	5.7	kW	Seasonal space heating energy efficiency	η _s	137.9	%
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}	5.04	kW	T _j = - 7 °C	COP _d	2.17	-
T _j = + 2 °C	P _{dh}	3.12	kW	T _j = + 2 °C	COP _d	3.51	-
T _j = + 7 °C	P _{dh}	2.08	kW	T _j = + 7 °C	COP _d	4.54	-
T _j = + 12 °C	P _{dh}	1.28	kW	T _j = + 12 °C	COP _d	5.59	-
T _j = bivalent temperature	P _{dh}	5.04	kW	T _j = bivalent temperature	COP _d	2.17	-
T _j = operation limit temperature	P _{dh}	4.52	kW	T _j = operation limit temperature	COP _d	1.91	-
For air-to-water heat pumps: T _j = - 15 °C	P _{dh}	3.47	kW	For air-to-water heat pumps: T _j = - 15 °C	COP _d	1.88	-
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 active mode				Supplementary heater			
Off mode	P _{OFF}	0.014	kW	Rated heat output (*)	P _{sup}	1.18	kW
Thermostat-off mode	P _{TO}	0.014	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.024	kW				
Crankcase heater mode	P _{CK}	0	kW				

Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
Sound power level, indoors/ outdoors	L _{WA}	38/58	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}	3345	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η _{wh}	127	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	801	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.