

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: HOP18WMONO3		
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:	NO		
Heat pump combination heater:	NO		
Declared climate condition:	AVERAGE		

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P _{rated}	17.7	kW	Seasonal space heating energy efficiency	η _s	125	%
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}	15.60	kW	T _j = -7 °C	COP _d	1.72	-
T _j = +2 °C	P _{dh}	9.60	kW	T _j = +2 °C	COP _d	3.30	-
T _j = +7 °C	P _{dh}	6.40	kW	T _j = +7 °C	COP _d	4.41	-
T _j = +12 °C	P _{dh}	3.60	kW	T _j = +12 °C	COP _d	5.09	-
T _j = bivalent temperature	P _{dh}	15.60	kW	T _j = bivalent temperature	COP _d	1.72	-
T _j = operation limit temperature	P _{dh}	15.00	kW	T _j = operation limit temperature	COP _d	1.17	-
For air-to-water heat pumps: T _j = -15 °C	P _{dh}	14.49	kW	For air-to-water heat pumps: T _j = -15 °C	COP _d	2.42	-
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 active mode	Supplementary heater Rated heat output (*) Type of energy input		
Off mode			
Thermostat-off mode			
Standby mode			
Crankcase heater mode			

Other items	For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		
Capacity control			
Sound power level, indoors/ outdoors	L _{WA}	-71	dB
Annual energy consumption	Q _{HE}	11375	kWh

For heat pump combination heater:	Water heating energy efficiency Daily fuel consumption Annual fuel consumption		
Declared load profile			
Daily electricity consumption			

Contact details	JSC "BALTIC REFRIGERATION GROUP" S. Zukausko 11, Ramuciai, LT-54464 Kaunas distr., Lithuania		
-----------------	---	--	--

 (*) 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.