

**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: HOP100/190IDU3						
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	Item	Symbol	Value	Unit
Rated heat output (*)	$P_{rated}$	5.7	kW	Seasonal space heating energy efficiency	$\eta_s$	137.9	%	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature $T_j$			
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 $T_j$							
$T_j = -7\text{ °C}$	$P_{dh}$	5.04	kW	$T_j = -7\text{ °C}$	$COP_d$	2.17	-	$T_j = -7\text{ °C}$	$COP_d$	2.17	-
$T_j = +2\text{ °C}$	$P_{dh}$	3.12	kW	$T_j = +2\text{ °C}$	$COP_d$	3.51	-	$T_j = +2\text{ °C}$	$COP_d$	3.51	-
$T_j = +7\text{ °C}$	$P_{dh}$	2.08	kW	$T_j = +7\text{ °C}$	$COP_d$	4.54	-	$T_j = +7\text{ °C}$	$COP_d$	4.54	-
$T_j = +12\text{ °C}$	$P_{dh}$	1.28	kW	$T_j = +12\text{ °C}$	$COP_d$	5.59	-	$T_j = +12\text{ °C}$	$COP_d$	5.59	-
$T_j =$ bivalent temperature	$P_{dh}$	5.04	kW	$T_j =$ bivalent temperature	$COP_d$	2.17	-	$T_j =$ 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	-	$T_j =$ operation limit temperature	$COP_d$	1.91	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$	$P_{dh}$	3.47	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$	$COP_d$	1.88	-	For air-to-water heat pumps: $T_j = -15\text{ °C}$	$COP_d$	1.88	-
Bivalent temperature	$T_{biv}$	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	$P_{cych}$	-	kW	Cycling interval efficiency	$COP_{cyc}$	-	-	Cycling interval efficiency	$COP_{cyc}$	-	-
Degradation co-efficient (**)	$C_{dh}$	0.9	-	Heating water operating limit temperature	WTOL	65	°C	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 <sup>3</sup> /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 <sup>3</sup> /h		
Annual energy consumption	$Q_{HE}$	3345	kWh								
For heat pump combination heater:											
Declared load profile	L			Water heating energy efficiency			$\eta_{wh}$	127	%		
Daily electricity consumption	$Q_{elec}$	-	kWh	Daily fuel consumption			$Q_{fuel}$	-	kWh		
Annual electricity consumption	AEC	801	kWh	Annual fuel consumption			AFC	-	GJ		
Contact details	JSC "BALTIC REFRIGERATION GROUP" S. Zukausko 11, Ramučiai, LT-54464 Kaunas distr., Lithuania										
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output $P_{rated}$ is equal to the design load for heating $P_{designh}$ , and the rated heat output of a supplementary heater $P_{sup}$ 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 $C_{dh} = 0,9$ .											