

Technical parameters														
Model(s):		Outdoor unit: HLT212MONO3S / Indoor unit: HLT293S/250												
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}	9.72	kW	Seasonal space heating energy efficiency	η_s	163	%	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}	8.14	kW	$T_j = -7\text{ °C}$	COP_d	2.62	-	$T_j = -7\text{ °C}$	COP_d	2.62	-			
$T_j = +2\text{ °C}$	P_{dh}	4.94	kW	$T_j = +2\text{ °C}$	COP_d	4.03	-	$T_j = +2\text{ °C}$	COP_d	4.03	-			
$T_j = +7\text{ °C}$	P_{dh}	3.52	kW	$T_j = +7\text{ °C}$	COP_d	5.28	-	$T_j = +7\text{ °C}$	COP_d	5.28	-			
$T_j = +12\text{ °C}$	P_{dh}	4.34	kW	$T_j = +12\text{ °C}$	COP_d	7.39	-	$T_j = +12\text{ °C}$	COP_d	7.39	-			
$T_j = \text{bivalent temperature}$	P_{dh}	9.72	kW	$T_j = \text{bivalent temperature}$	COP_d	2.36	-	$T_j = \text{bivalent temperature}$	COP_d	2.36	-			
$T_j = \text{operation limit temperature}$	P_{dh}	9.72	kW	$T_j = \text{operation limit temperature}$	COP_d	2.36	-	$T_j = \text{operation limit temperature}$	COP_d	2.36	-			
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	P_{dh}	8.26	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	COP_d	2.04	-	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C			
Bivalent temperature	T_{biv}	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	Cycling interval efficiency	COP_{cyc}		-			
Cycling interval capacity for heating	P_{cych}	-	kW	Cycling interval efficiency	COP_{cyc}		-	Heating water operating limit temperature	WTOL	60	°C			
Degradation co-efficient (**)	C_{dh}	0.98	-	Heating water operating limit temperature	WTOL	60	°C	Power consumption in modes other than active mode						
Power consumption in modes other than active mode				Supplementary heater										
Off mode	P_{OFF}	0.032	kW	Supplementary heater				Rated heat output (*)						
Thermostat-off mode	P_{TO}	0.032	kW	Rated heat output (*)				P_{sup}	0	kW				
Standby mode	P_{SB}	0.032	kW	Type of energy input				Electrical						
Crankcase heater mode	P_{CK}	0.000	kW	Other items										
Capacity control														
Variable				For air-to-water heat pumps: Rated air flow rate, outdoors				-	3300	m ³ /h				
Sound power level, indoors/ outdoors				L_{WA}	35/50	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}	4852	kWh								
For heat pump combination heater:														
Declared load profile				XL				Water heating energy efficiency				η_{wh}	136	%
Daily electricity consumption				Q_{elec}	5.617	kWh	Daily fuel consumption				Q_{fuel}	-	kWh	
Annual electricity consumption				AEC	1236	kWh	Annual fuel consumption				AFC	-	GJ	
Contact details		NØRDIS EUROPE SP. Z O.O. Opolska 38 55-011 Siechnice, Poland												
(*) 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 $C_{dh} = 0,9$.														