

Technical parameters											
Model(s):		Outdoor unit: HLT212MONO1S / 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 (*)	$P_{rated}$	9.60	kW	Seasonal space heating energy efficiency	$\eta_s$	162	%	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 $T_j$							
$T_j = -7\text{ °C}$	$P_{dh}$	7.98	kW	$T_j = -7\text{ °C}$	$COP_d$	2.65	-	$T_j = -7\text{ °C}$	$COP_d$	2.65	-
$T_j = +2\text{ °C}$	$P_{dh}$	4.91	kW	$T_j = +2\text{ °C}$	$COP_d$	3.96	-	$T_j = +2\text{ °C}$	$COP_d$	3.96	-
$T_j = +7\text{ °C}$	$P_{dh}$	3.72	kW	$T_j = +7\text{ °C}$	$COP_d$	5.37	-	$T_j = +7\text{ °C}$	$COP_d$	5.37	-
$T_j = +12\text{ °C}$	$P_{dh}$	4.40	kW	$T_j = +12\text{ °C}$	$COP_d$	7.38	-	$T_j = +12\text{ °C}$	$COP_d$	7.38	-
$T_j = \text{bivalent temperature}$	$P_{dh}$	9.60	kW	$T_j = \text{bivalent temperature}$	$COP_d$	2.3	-	$T_j = \text{bivalent temperature}$	$COP_d$	2.3	-
$T_j = \text{operation limit temperature}$	$P_{dh}$	9.60	kW	$T_j = \text{operation limit temperature}$	$COP_d$	2.3	-	$T_j = \text{operation limit temperature}$	$COP_d$	2.3	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	$P_{dh}$	8.33	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	$COP_d$	2.18	-	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	$COP_d$	2.18	-
Bivalent temperature	$T_{biv}$	-10	°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 (**)	$C_{dh}$	0.98	-	Heating water operating limit temperature	WTOL	60	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater							
Off mode	$P_{OFF}$	0.019	kW	Rated heat output (*)		$P_{sup}$	0	kW			
Thermostat-off mode	$P_{TO}$	0.030	kW	Type of energy input		Electrical					
Standby mode	$P_{SB}$	0.019	kW								
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 <sup>3</sup> /h				
Sound power level, indoors/ outdoors	$L_{WA}$	31/50	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	$Q_{HE}$	4812	kWh								
For heat pump combination heater:											
Declared load profile	XL			Water heating energy efficiency	$\eta_{wh}$	134	%				
Daily electricity consumption	$Q_{elec}$	5.658	kWh	Daily fuel consumption	$Q_{fuel}$	-	kWh				
Annual electricity consumption	AEC	1245	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 $C_{dh} = 0,9$ .											