



Technical parameters											
Model(s):			Outdoor unit: HOP12WODU3 / Indoor unit: HOP160/240IDU3								
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}	11.6	kW	Seasonal space heating energy efficiency			η _s	135.1	%
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}	10.24	kW	T _j = − 7 °C			COP _d	2.01	-
T _j = + 2 °C			P _{dh}	6.52	kW	T _j = + 2 °C			COP _d	3.44	-
T _j = + 7 °C			P _{dh}	4.36	kW	T _j = + 7 °C			COP _d	4.59	-
T _j = + 12 °C			P _{dh}	3.29	kW	T _j = + 12 °C			COP _d	6.05	-
T _j = bivalent temperature			P _{dh}	10.24	kW	T _j = bivalent temperature			COP _d	2.01	-
T _j = operation limit temperature			P _{dh}	9.10	kW	T _j = operation limit temperature			COP _d	1.79	-
For air-to-water heat pumps: T _j = − 15 °C			P _{dh}	8.39	kW	For air-to-water heat pumps: T _j = − 15 °C			COP _d	1.85	-
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}	0.020	kW	Rated heat output (*)			P _{sup}	2.5	kW
Thermostat-off mode			P _{TO}	0.020	kW	Type of energy input			Electrical		
Standby mode			P _{SB}	0.030	kW						
Crankcase heater mode			P _{CK}	0	kW						
Other items											
Capacity control			Variable			For air-to-water heat pumps: Rated air flow rate, outdoors			-	4060	m³/h
Sound power level, indoors/ outdoors			L _{WA}	42/64	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			-	-	m³/h
Annual energy consumption			Q _{HE}	6928	kWh						
For heat pump combination heater:											
Declared load profile			XL			Water heating energy efficiency			η _{wh}	123	%
Daily electricity consumption			Q _{elec}	-	kWh	Daily fuel consumption			Q _{fuel}	-	kWh
Annual electricity consumption			AEC	1360	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(Tj).											
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.											