



Technical parameters														
Model(s):				Outdoor unit: HOP16WODU3 / 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}	13.0	kW	Seasonal space heating energy efficiency				η _s	133.2	%	
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}	11.52	kW	T _j = − 7 °C				COP _d	1.99	-	
T _j = + 2 °C				P _{dh}	7.18	kW	T _j = + 2 °C				COP _d	3.34	-	
T _j = + 7 °C				P _{dh}	4.67	kW	T _j = + 7 °C				COP _d	4.61	-	
T _j = + 12 °C				P _{dh}	3.31	kW	T _j = + 12 °C				COP _d	6.07	-	
T _j = bivalent temperature				P _{dh}	11.52	kW	T _j = bivalent temperature				COP _d	1.99	-	
T _j = operation limit temperature				P _{dh}	10.33	kW	T _j = operation limit temperature				COP _d	1.80	-	
For air-to-water heat pumps: T _j = − 15 °C				P _{dh}	9.60	kW	For air-to-water heat pumps: T _j = − 15 °C				COP _d	1.87	-	
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}	2.67	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				-	4650	m ³ /h	
Sound power level, indoors/ outdoors				L _{WA}	44/68	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}	7896	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.														