Product information according to Commission Delegated Regulation (EU) 813/2013

Technical parameters

Model(s):	Outdoor unit: KHON-08PMA1
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:	No
Heat pump combination heater:	No
Declared climate condition:	AVERAGE
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8,2	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	7,26	kW
Tj = 2°C	Pdh	4,51	kW
Tj = 7°C	Pdh	3,72	kW
Tj = 12°C	Pdh	4,40	kW
Tj = bivalent temperature	Pdh	7,27	kW
Tj = operating limit	Pdh	8,20	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0,011	kW
Standby mode	P_{sb}	0,011	kW
Thermostat-off mode	P_{to}	0,016	kW
Crankcase heater mode	P_{ck}	0,000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	159,6	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COPd	2,46	-
Tj = 2°C	COPd	4,02	-
Tj = 7°C	COPd	5,27	-
Tj = 12°C	COPd	6,90	-
Tj = bivalent temperature	COPd	2,46	-
Tj = operating limit	COPd	2,11	-
For air-to-water heat pumps: Tj = -15°C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	80	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0	kW
Type of energy input	electrical		

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-/53	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	4168	kWh				

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{clec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	KLIMA-THERM ul. Ostrobramska 101A, 04-041 Warszawa, Polska

(*) 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.

Product information according to Commission Delegated Regulation (EU) 813/2013

Technical parameters

Model(s):	Outdoor unit: KHON-10PMA1
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:	No
Heat pump combination heater:	No
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	8,85	kW
Tj = 2°C	Pdh	5,48	kW
Tj = 7°C	Pdh	3,78	kW
Tj = 12°C	Pdh	4,43	kW
Tj = bivalent temperature	Pdh	8,85	kW
Tj = operating limit	Pdh	8,98	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0,011	kW
Standby mode	P_{sb}	0,011	kW
Thermostat-off mode	P_{to}	0,016	kW
Crankcase heater mode	P_{ck}	0,000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	157,5	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COPd	2,23	-
Tj = 2°C	COPd	3,98	-
Tj = 7°C	COPd	5,48	-
Tj = 12°C	COPd	7,03	-
Tj = bivalent temperature	COPd	2,23	-
Tj = operating limit	COPd	2,06	-
For air-to-water heat pumps: Tj = -15°C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	80	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	1,02	kW
Type of energy input	electrical		

Other items						
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-/54	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h
Annual energy consumption	Q_{HE}	5148	kWh				

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{clec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	KLIMA-THERM ul. Ostrobramska 101A, 04-041 Warszawa, Polska

(*) 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.