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

Technical parameters

Model(s):	Outdoor unit: KHOA-06PMA1
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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5,9	kW	Seasonal space heating energy efficiency	ηs	149,7	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	5,36	kW	Tj = -7°C	COPd	2,41	-
Tj = 2°C	Pdh	3,12	kW	Tj = 2°C	COPd	3,73	-
Tj = 7°C	Pdh	2,62	kW	Tj = 7°C	COPd	5,21	-
Tj = 12°C	Pdh	3,03	kW	Tj = 12°C	COPd	6,78	-
Tj = bivalent temperature	Pdh	5,36	kW	Tj = bivalent temperature	COPd	2,41	-
Tj = operating limit	Pdh	5,10	kW	Tj = operating limit	COPd	2,15	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
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	W_{TOL}	75	°C
Power consumption in modes other than active mode				**Supplementary heater**			
Off mode	P_{off}	0,009	kW	Rated heat output (**)	P_{sup}	0,75	kW
Standby mode	P_{sb}	0,009	kW				
Thermostat-off mode	P_{to}	0,014	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	-	-	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-/58	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}	3191	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: KHOA-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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6,8	kW	Seasonal space heating energy efficiency	ηs	149,5	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	5,97	kW	Tj = -7°C	COPd	2,37	-
Tj = 2°C	Pdh	3,71	kW	Tj = 2°C	COPd	3,85	-
Tj = 7°C	Pdh	3,62	kW	Tj = 7°C	COPd	5,12	-
Tj = 12°C	Pdh	4,31	kW	Tj = 12°C	COPd	6,77	-
Tj = bivalent temperature	Pdh	5,97	kW	Tj = bivalent temperature	COPd	2,37	-
Tj = operating limit	Pdh	6,46	kW	Tj = operating limit	COPd	2,08	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
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	W_{TOL}	75	°C
Power consumption in modes other than active mode				**Supplementary heater**			
Off mode	P_{off}	0,009	kW	Rated heat output (**)	P_{sup}	0,34	kW
Standby mode	P_{sb}	0,009	kW				
Thermostat-off mode	P_{to}	0,014	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	-	-	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-/60	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}	3676	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

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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.

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

Technical parameters

Model(s):	Outdoor unit: KHOA-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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7,8	kW	Seasonal space heating energy efficiency	ηs	149,5	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	6,88	kW	Tj = -7°C	COPd	2,31	-
Tj = 2°C	Pdh	4,23	kW	Tj = 2°C	COPd	3,80	-
Tj = 7°C	Pdh	3,62	kW	Tj = 7°C	COPd	5,21	-
Tj = 12°C	Pdh	4,31	kW	Tj = 12°C	COPd	6,86	-
Tj = bivalent temperature	Pdh	6,88	kW	Tj = bivalent temperature	COPd	2,31	-
Tj = operating limit	Pdh	7,42	kW	Tj = operating limit	COPd	1,99	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
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	W_{TOL}	75	°C
Power consumption in modes other than active mode				**Supplementary heater**			
Off mode	P_{off}	0,009	kW	Rated heat output (**)	P_{sup}	0,35	kW
Standby mode	P_{sb}	0,009	kW				
Thermostat-off mode	P_{to}	0,014	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	-	-	m^3/h
Sound power level, indoors/outdoors	L_{WA}	-/61	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}	4215	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

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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.