

Technical parameters for heat pump space heaters and heat pump combination heaters

As by ANNEX II, point 5 - REQUIREMENTS FOR PRODUCT INFORMATION, Table 2 - COMMISSION REGULATION (EU) No 813/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters and by ANNEX V - Table 8 of COMMISSION REGULATION (EU) No 811/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device.

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Model				AIM08EMX + DHW KIT					
	☐ Air-to-water heat pump								
Type of heat pump	□ Water-to-water heat pump □ Brine-to-water heat pump								
			mp						
Low-temperature heat pump	☐ Yes	⊠ No							
Equipped with a supplementary heater	☐ Yes	⊠ No							
Heat pump combination heater	⊠ Yes	□ No							
Climate		(==0.5)	☐ Colder	□ Warmer					
Temperature application	☐ Medium			5°C)					
Applied starndards	EN14825 / E	N16147							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	7	kW	Seasonal space heating energy efficiency	η_{s}	159	%		
Declared capacity for heating for part loa	ad at indoor tei	mperature 20	°C and	Declared coefficient of performance or p	rimary energy	ratio for part le	oad at indoor		
outdoor temperature Tj				temperature 20 °C and outdoor temperat	ture Tj				
Ti = - 7°C	Pdh	5.8	l kW	Ti = - 7°C	COPd	2.83	_		
Tj = + 2°C	Pdh	3.5	kW	Tj = + 2°C	COPd	3.82			
Tj = + 7°C	Pdh	2.3	kW	Ti = + 7°C	COPd	5.29	_		
Ti = + 12°C	Pdh	1.5	kW	Ti = + 12°C	COPd	6.45	_		
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	2.83	_		
Tj = operation limit temperature	Pdh	5.4	kW	Tj = operation limit temperature	COPd	2.61	_		
T j = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	T j = - 15 °C (if TOL < - 20 °C)	COPd	-	kW		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C		
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency	COPcyc	-10	-		
			KVV	Heating water operating limit					
Degradation co-efficient	Cdh	0.9	-	temperature	WTOL	58	°C		
Power consumption in modes other t	han active mo	de		Supplementary heater					
Off mode	P _{OFF}	0.005	kW	Rated heat output	Psup	1.1	kW		
Thermostat-off mode	P _{SB}	0.008	kW	1					
Standby mode	P _{TO}	0.005	kW	Type of energy input		_			
		0.005	kW	Type of chargy input		_			
Crankcase heater mode	P _{CK}	0.035	KVV	<u> </u>					
Other items									
Capacity control		variable		Rated air flow rate, outdoor	-	2900	m ³ /h		
Sound power level, indoor / outdoor	L _{WA}	- / 69	dB	Rated brine or water flow rate, outdoor			3.,		
Annual energy consumption	Q _{HE}	3326	kWh	heat exchanger	-	-	m ³ /h		
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	$\eta_{ m wh}$	94	%		
Daily electricity consumption	Qelec	8.437	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	1788	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details	ARGOCLIMA S.p.A. Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy www.argoclima.com								



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Model				AIM08EMX + DHW KIT					
	☐ Air-to-water heat pump								
Type of heat pump	□ Water-to-water heat pump								
		water heat pu	mp						
Low-temperature heat pump	☐ Yes	⊠ No							
Equipped with a supplementary heater	☐ Yes	⊠ No							
Heat pump combination heater	⊠ Yes	□ No							
Climate			☐ Colder	□ Warmer					
Temperature application	Medium		□ Low (35	°C)					
Applied starndards	EN14825 / E	N16147							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	6	kW	Seasonal space heating energy efficiency	η _s	113	%		
Declared capacity for heating for part loa	ad at indoor tei	mperature 20	°C and	Declared coefficient of performance or p	rimary energy	ratio for part le	oad at indoor		
outdoor temperature Tj				temperature 20 °C and outdoor temperat	ture Tj				
Ti = - 7°C	Pdh	4.9	l kW	Ti = - 7°C	COPd	1.83	_		
Tj = + 2°C	Pdh	3.0	kW	Tj = + 2°C	COPd	2.85			
Tj = + 7°C	Pdh	1.9	kW	Ti = + 7°C	COPd	3.67	_		
Ti = + 12°C	Pdh	1.5	kW	Ti = + 12°C	COPd	5.63	_		
Tj = bivalent temperature	Pdh	4.9	kW	Tj = bivalent temperature	COPd	1.83	_		
Tj = operation limit temperature	Pdh	4.0	kW	Tj = operation limit temperature	COPd	1.46	_		
T j = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	T j = - 15 °C (if TOL < - 20 °C)	COPd	-	kW		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C		
Cycling interval capacity for heating	Pcych	-,	kW	Cycling interval efficiency	COPcyc	-10	-		
			KVV	Heating water operating limit					
Degradation co-efficient	Cdh	0.9	-	temperature	WTOL	58	°C		
Power consumption in modes other t	han active mo	ode		Supplementary heater					
Off mode	P _{OFF}	0.005	kW	Rated heat output	Psup	1.5	kW		
Thermostat-off mode	P _{SB}	0.008	kW	II	· '				
Standby mode	P _{TO}	0.005	kW	Type of energy input		_			
		0.005	kW	Type of chergy input		_			
Crankcase heater mode	P _{CK}	0.035	I KVV	<u> </u>					
Other items									
Capacity control		variable		Rated air flow rate, outdoor	-	2900	m ³ /h		
Sound power level, indoor / outdoor	L _{WA}	- / 69	dB	Rated brine or water flow rate, outdoor			3		
Annual energy consumption	Q _{HE}	3904	kWh	heat exchanger	-	-	m ³ /h		
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	η _{wh}	94	%		
Daily electricity consumption	Qelec	8.437	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	1788	kWh	Annual fuel consumption	AFC	-	GJ		
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MEDIUM TEMPERATURE HEAT PUMP - Low & Medium temperature application

MODEL: AIM08EMX + DHW KIT

SEASONAL SPACE HEATING ENERGY EFFICIENCY CLASS				A+
		35°C	55°C	
Rated heat output (average climate conditions)	Prated	7	6	kW
DECLARED LOAD PROFILE				XL
SEASONAL WATER HEATING ENERGY EFFICIENCY CLASS				Α
		35°C	55°C	
Annual energy consumption (average climate conditions)	Q _{HE}	3326	3904	kWh
Annual electricity consumption for water heating (average climate conditions)	AEC	1788	kWh	
		35°C	55°C	
Seasonal space heating energy efficiency (average climate conditions)	η _s	159	113	%
Water heating energy efficiency (average climate conditions)	η _{wh}	94	%	
	•			
		35°C	55°C	
Rated heat output (colder climate conditions)	Pnominale	6	5	kW
Rated heat output (warmer climate conditions)	Pnominale	6	5	kW
		35°C	55°C	
Annual electricity consumption for space heating (colder climate conditions)	Q _{HE}	4079	5274	kWh
Annual electricity consumption for space heating (warmer climate conditions)	Q _{HE}	1454	1608	kWh
			1	
Annual electricity consumption for water heating (colder climate conditions)	AEC	2302	kWh	
Annual electricity consumption for water heating (warmer climate conditions)	AEC	1347	kWh	
			T	
Constant to the still a second		35°C	55°C	0/
Seasonal space heating energy efficiency (colder climate conditions) Seasonal space heating energy efficiency (warmer climate conditions)	η _s	131 202	97 147	%
Securial space floating chargy emoting (warmer climate continuous)	η _s	202	141	70
Water heating energy efficiency (colder climate conditions)	η_{wh}	73	%	
Water heating energy efficiency (warmer climate conditions)	η_{wh}	124	%	
	•			
	1	Indoor	Outdoor	
Sound power level	L _{WA}	-	69	dB