

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.

Model	AIM06EMX + KIT DHW							
	🗵 Air-to-w	ater heat pum	р					
Type of heat pump								
	Brine-to-	water heat pu	imp					
Low-temperature heat pump	□ Yes	🗵 No						
Equipped with a supplementary heater	□ Yes	🗵 No						
Heat pump combination heater	⊠ Yes	🗆 No						
Climate	⊠ Average)	Colder	Warmer				
Temperature application	$\square Medium (55^{\circ}C) \qquad \boxtimes Low (35^{\circ}C)$							
Applied starndards	EN14825 / EN16147							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	5	kW	Seasonal space heating energy efficiency	η _s	153	%	
Declared capacity for heating for part lo	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or p	rimary energy	ratio for part le	ad at indoo	
outdoor temperature Tj			Oand	temperature 20 °C and outdoor temperat				
	1 5 "		1	· · ·	· · · · · · · · · · · · · · · · · · ·	0.17		
Tj = - 7°C	Pdh	4.2	kW	$Tj = -7^{\circ}C$	COPd	2.47	-	
$Tj = +2^{\circ}C$	Pdh	2.5	kW	$Tj = + 2^{\circ}C$	COPd	3.79	-	
$T_j = +7^{\circ}C$	Pdh	1.7	kW	$Tj = +7^{\circ}C$	COPd	5.21	-	
Tj = + 12°C	Pdh Pdh	1.2 4.2	kW kW	Tj = + 12°C	COPd COPd	6.39	-	
Tj = bivalent temperature Tj = operation limit temperature	Pdh Pdh	4.2	kW kW	Tj = bivalent temperature	COPd	2.47 1.19	-	
	Pdh		kW kW	Tj = operation limit temperature	COPd	-		
T j = – 15 °C (if TOL < – 20 °C) Bivalent temperature	Tbiv	-7	°C	T j = -15 °C (if TOL < -20 °C) Operation limit temperature	TOL	-20	k₩ °C	
			kW	Cycling interval efficiency		-20		
Cycling interval capacity for heating	Pcych	-	KVV	Heating water operating limit	COPcyc	-	-	
Degradation co-efficient	Cdh	0.9	-	temperature	WTOL	58	°C	
			•					
Power consumption in modes other	than active me	ode		Supplementary heater				
Power consumption in modes other	than active mo	ode 0.005	kW	Supplementary heater Rated heat output	Psup	1.1	kW	
-			kW kW		Psup	1.1	kW	
Off mode Thermostat-off mode	P _{OFF} P _{SB}	0.005	kW	Rated heat output	Psup	1.1	kW	
Off mode Thermostat-off mode Standby mode	P _{OFF} P _{SB} P _{TO}	0.005 0.008 0.005	kW kW		Psup	1.1	kW	
Off mode Thermostat-off mode	P _{OFF} P _{SB}	0.005	kW	Rated heat output	Psup	1.1	kW	
Off mode Thermostat-off mode Standby mode	P _{OFF} P _{SB} P _{TO}	0.005 0.008 0.005	kW kW	Rated heat output	Psup	-	kW	
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items	P _{OFF} P _{SB} P _{TO}	0.005 0.008 0.005	kW kW	Rated heat output	Psup -	1.1 - 2700	kW m ³ /h	
Off mode Thermostat-off mode Standby mode Crankcase heater mode	P _{OFF} P _{SB} P _{TO}	0.005 0.008 0.005 0.035	kW kW	Rated heat output Type of energy input		-	m ³ /h	
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control	P _{OFF} P _{SB} P _{TO} P _{CK}	0.005 0.008 0.005 0.035 variable	kW kW kW	Rated heat output Type of energy input Rated air flow rate, outdoor		-		
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption	Р _{оFF} Р _{SB} Р _{TO} Р _{CK}	0.005 0.008 0.005 0.035 variable - / 65	kW kW kW	Rated heat output Type of energy input Rated air flow rate, outdoor Rated brine or water flow rate, outdoor		-	m ³ /h	
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption For heat pump combination heater	Р _{оFF} Р _{SB} Р _{TO} Р _{CK}	0.005 0.008 0.005 0.035 variable - / 65 2509	kW kW kW	Rated heat output Type of energy input Rated air flow rate, outdoor Rated brine or water flow rate, outdoor heat exchanger	-	- 2700	m ³ /h m ³ /h	
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption For heat pump combination heater Declared load profile	P _{OFF} P _{SB} P _{TO} P _{CK}	0.005 0.008 0.005 0.035 variable - / 65 2509 XL	kW kW kW dB kWh	Rated heat output Type of energy input Rated air flow rate, outdoor Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency	- - η _{wh}	- 2700 - 91	m ³ /h m ³ /h	
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption For heat pump combination heater Declared load profile Daily electricity consumption	P _{OFF} P _{SB} P _{TO} P _{CK}	0.005 0.008 0.005 0.035 variable - / 65 2509 XL 8.712	kW kW kW dB kWh	Rated heat output Type of energy input Rated air flow rate, outdoor Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency Daily fuel consumption	- - Qfuel	- 2700	m ³ /h m ³ /h % kWh	
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption For heat pump combination heater Declared load profile	P _{OFF} P _{SB} P _{TO} P _{CK}	0.005 0.008 0.005 0.035 variable - / 65 2509 XL	kW kW kW dB kWh	Rated heat output Type of energy input Rated air flow rate, outdoor Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency	- - η _{wh}	- 2700 - 91	m ³ /h m ³ /h	
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption For heat pump combination heater Declared load profile Daily electricity consumption	P _{OFF} P _{SB} P _{TO} P _{CK}	0.005 0.008 0.005 0.035 variable - / 65 2509 XL 8.712	kW kW kW dB kWh kWh	Rated heat output Type of energy input Rated air flow rate, outdoor Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency Daily fuel consumption Annual fuel consumption ARGOCLIMA S.p.A.	- - Qfuel AFC	- 2700 - 91	m ³ /h m ³ /h % kWh	
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption For heat pump combination heater Declared load profile Daily electricity consumption	P _{OFF} P _{SB} P _{TO} P _{CK}	0.005 0.008 0.005 0.035 variable - / 65 2509 XL 8.712	kW kW kW dB kWh kWh	Rated heat output Type of energy input Rated air flow rate, outdoor Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency Daily fuel consumption Annual fuel consumption	- - Qfuel AFC	- 2700 - 91	m ³ /h m ³ /h % kWh	

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Model	AIM06EMX + KIT DHW								
	🗵 Air-to-w	ater heat pum	р						
Type of heat pump	□ Water-to-water heat pump								
	□ Brine-to-water heat pump								
Low-temperature heat pump	Yes	🗵 No							
Equipped with a supplementary heater	Yes	🗵 No							
Heat pump combination heater	🗵 Yes	🗆 No							
Climate	🗵 Average	9	□ Colder	Warmer					
Temperature application	⊠ Medium (55°C) □ Low (35°C)								
Applied starndards	EN14825 / EN16147								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	4	kW	Seasonal space heating energy efficiency	η _s	111	%		
Declared capacity for heating for part lo	ad at indoor te	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					
Ti = - 7°C	Pdh	3.1	kW	Ti = - 7°C	COPd	1.70	-		
Ti = + 2°C	Pdh	1.9	kW	$T_i = +2^{\circ}C$	COPd	2.85	-		
Tj = + 7°C	Pdh	1.9	kW	$T_{i} = +7^{\circ}C$	COPd	3.85	-		
Tj = + 12°C	Pdh	1.4	kW	$\frac{1}{\text{Ti}} = + 12^{\circ}\text{C}$	COPd	5.24	-		
Ti = bivalent temperature	Pdh	3.1	kW	Tj = bivalent temperature	COPd	1.70	-		
Tj = operation limit temperature	Pdh	2.2	kW	Tj = operation limit temperature	COPd	1.12	-		
T j = -15 °C (if TOL < -20 °C)	Pdh	-	kW	$T_i = -15 \degree C (if TOL < -20 \degree C)$	COPd	-	kW		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C		
Cycling interval capacity for heating	Pcych	-	kŴ	Cycling interval efficiency	COPcyc	-	-		
				Heating water operating limit					
Degradation co-efficient	Cdh	0.9	-	temperature	WTOL	55	°C		
Power consumption in modes other			1	Supplementary heater		1.0			
Off mode	P _{OFF}	0.005	kW	Rated heat output	Psup	1.3	kW		
Thermostat-off mode	P _{SB}	0.008	kW						
Standby mode	P _{TO}	0.005	kW	Type of energy input		-			
Crankcase heater mode	P _{CK}	0.035	kW						
Other items									
Capacity control	1	variable		Rated air flow rate, outdoor	-	2700	m ³ /h		
Sound power level, indoor / outdoor	L _{WA}	- / 65	dB	Rated brine or water flow rate, outdoor		-	m ³ /h		
Annual energy consumption	Q _{HE}	2546	kWh	heat exchanger	-	-	m /n		
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	η _{wh}	91	%		
Daily electricity consumption	Qelec	8.712	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	1847	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details	ARGOCLIMA S.p.A. Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy www.argoclima.com								
	•						0-8020-001-		

0-8020-001-03



PRODUCT FICHE

As by ANNEX IV - POINT 1 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.

MEDIUM TEMPERATURE HEAT PUMP - Low & Medium temperature application MODEL : AIM06EMX + DHW KIT

SEASONAL SPACE HEATING ENERGY EFFICIENCY CLASS				A+
		35°C	55°C	
Rated heat output (average climate conditions)	Prated	5	4	kW
DECLARED LOAD PROFILE				XL
SEASONAL WATER HEATING ENERGY EFFICIENCY CLASS				A
		35°C	55°C	L/M/b
Annual energy consumption (average climate conditions)	Q _{HE}	2509	2546	kWh
Annual electricity consumption for water heating (average climate conditions)	AEC	1847	kWh	
		35°C	55°C	
Seasonal space heating energy efficiency (average climate conditions)	η _s	153	111	%
	I			
Water heating energy efficiency (average climate conditions)	η _{wh}	91	%	
		35°C	55°C	
Rated heat output (colder climate conditions)	Pnominale	4	3	kW
Rated heat output (warmer climate conditions)	Pnominale	4	3	kW
		35°C	55°C	
Annual electricity consumption for space heating (colder climate conditions)	Q _{HE}	2951	3438	kWh
Annual electricity consumption for space heating (warmer climate conditions)	Q _{HE}	1263	1110	kWh
Annual electricity consumption for water heating (colder climate conditions)	AEC	2455	kWh	
Annual electricity consumption for water heating (warmer climate conditions)	AEC	1550	kWh	
	I			
		35°C	55°C	
Seasonal space heating energy efficiency (colder climate conditions)	η _s	123	83	%
Seasonal space heating energy efficiency (warmer climate conditions)	η _s	185	121	%
Water heating energy efficiency (colder climate conditions)	η _{wh}	68	%	
Water heating energy efficiency (warmer climate conditions)	η _{wh}	108	%	
	I		·]	
		Indoor	Outdoor	
Sound power level	L _{WA}	-	65	dB

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