



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		AUCH / AEI1G80*EMX*** / DHW KIT					
Type of heat pump	<input checked="" type="checkbox"/> Air-to-water heat pump <input type="checkbox"/> Water-to-water heat pump <input type="checkbox"/> Brine-to-water heat pump						
Low-temperature heat pump	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Equipped with a supplementary heater	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Heat pump combination heater	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Climate	<input checked="" type="checkbox"/> Average <input type="checkbox"/> Colder <input type="checkbox"/> Warmer						
Temperature application	<input type="checkbox"/> Medium (55°C) <input checked="" type="checkbox"/> Low (35°C)						
Applied standards	EN14825 / EN16147						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	7	kW	Seasonal space heating energy efficiency	η_s	151	%
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	5.8	kW	Tj = - 7°C	COPd	2.45	-
Tj = + 2°C	Pdh	3.3	kW	Tj = + 2°C	COPd	3.80	-
Tj = + 7°C	Pdh	2.2	kW	Tj = + 7°C	COPd	4.96	-
Tj = + 12°C	Pdh	2.1	kW	Tj = + 12°C	COPd	6.64	-
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	2.45	-
Tj = operation limit temperature	Pdh	5.0	kW	Tj = operation limit temperature	COPd	2.08	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient	Cdh	0.9	-	Heating water operating limit temperature	WTOL	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.005	kW	Rated heat output	P _{sup}	1.6	kW
Thermostat-off mode	P _{SB}	0.008	kW	Type of energy input	-		
Standby mode	P _{TO}	0.005	kW				
Crankcase heater mode	P _{CK}	0.030	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoor	-	2500	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	46 / 69	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	3541	kWh				
For heat pump combination heater							
Declared load profile	XL			Water heating energy efficiency	η_{wh}	94	%
Daily electricity consumption	Q _{elec}	8.375	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	1778	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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Low-temperature heat pump	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Equipped with a supplementary heater	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Heat pump combination heater	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Climate	<input checked="" type="checkbox"/> Average <input type="checkbox"/> Colder <input type="checkbox"/> Warmer						
Temperature application	<input checked="" type="checkbox"/> Medium (55°C) <input type="checkbox"/> Low (35°C)						
Applied standards	EN14825 / EN16147						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	6	kW	Seasonal space heating energy efficiency	η_s	111	%
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	5.1	kW	Tj = - 7°C	COPd	1.66	-
Tj = + 2°C	Pdh	3.1	kW	Tj = + 2°C	COPd	2.79	-
Tj = + 7°C	Pdh	2.1	kW	Tj = + 7°C	COPd	3.81	-
Tj = + 12°C	Pdh	1.8	kW	Tj = + 12°C	COPd	5.55	-
Tj = bivalent temperature	Pdh	5.1	kW	Tj = bivalent temperature	COPd	1.66	-
Tj = operation limit temperature	Pdh	4.3	kW	Tj = operation limit temperature	COPd	1.32	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient	Cdh	0.9	-	Heating water operating limit temperature	WTOL	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.005	kW	Rated heat output	P _{sup}	1.4	kW
Thermostat-off mode	P _{SB}	0.008	kW	Type of energy input	-		
Standby mode	P _{TO}	0.005	kW				
Crankcase heater mode	P _{CK}	0.030	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoor	-	2500	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	46 / 69	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	4184	kWh				
For heat pump combination heater							
Declared load profile	XL			Water heating energy efficiency	η_{wh}	94	%
Daily electricity consumption	Q _{elec}	8.375	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	1778	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	ARGOCLIMA S.p.A. Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy www.argoclima.com						

0-8020-009-00



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 and medium temperature application

MODEL : AUCH / AEI1G80*EMX*** / 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				A
		35°C	55°C	
Annual energy consumption (average climate conditions)	Q _{HE}	3541	4184	kWh
Annual electricity consumption for water heating (average climate conditions)	AEC	1778	kWh	
		35°C	55°C	
Seasonal space heating energy efficiency (average climate conditions)	η _s	151	111	%
Water heating energy efficiency (average climate conditions)	η _{wh}	94	%	
		35°C	55°C	
Rated heat output (colder climate conditions)	P _{nominale}	5	5	kW
Rated heat output (warmer climate conditions)	P _{nominale}	7	5	kW
		35°C	55°C	
Annual electricity consumption for space heating (colder climate conditions)	Q _{HE}	4012	4945	kWh
Annual electricity consumption for space heating (warmer climate conditions)	Q _{HE}	1756	1862	kWh
Annual electricity consumption for water heating (colder climate conditions)	AEC	2168	kWh	
Annual electricity consumption for water heating (warmer climate conditions)	AEC	1378	kWh	
		35°C	55°C	
Seasonal space heating energy efficiency (colder climate conditions)	η _s	119	87	%
Seasonal space heating energy efficiency (warmer climate conditions)	η _s	196	127	%
Water heating energy efficiency (colder climate conditions)	η _{wh}	77	%	
Water heating energy efficiency (warmer climate conditions)	η _{wh}	122	%	
Sound power level, indoor / outdoor	L _{WA}	46	69	dB