



## 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		AG4HP123PH					
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 type="checkbox"/> Yes <input checked="" 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	12	kW	Seasonal space heating energy efficiency	$\eta_s$	180	%
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	10.8	kW	Tj = - 7°C	COPd	3.01	-
Degradation coefficient	Cdh	0.99	-	Tj = + 2°C	COPd	4.50	-
Tj = + 2°C	Pdh	6.7	kW	Tj = + 7°C	COPd	5.82	-
Degradation coefficient	Cdh	0.98	-	Tj = + 12°C	COPd	7.45	-
Tj = + 7°C	Pdh	4.5	kW	Tj = bivalent temperature	COPd	3.01	-
Degradation coefficient	Cdh	0.97	-	Tj = operation limit temperature	COPd	2.51	-
Tj = + 12°C	Pdh	3.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Degradation coefficient	Cdh	0.94	-	Operation limit temperature	TOL	-10	°C
Tj = bivalent temperature	Pdh	10.8	kW	Cycling interval efficiency	COPcyc	-	-
Tj = operation limit temperature	Pdh	9.9	kW	Heating water operating limit temperature	WTOL	65	°C
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW				
Bivalent temperature	Tbiv	-7	°C				
Cycling interval capacity for heating	Pcych	-	kW				
		-					
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.025	kW	Rated heat output	P <sub>sup</sub>	2.1	kW
Thermostat-off mode	P <sub>SB</sub>	0.025	kW	Type of energy input	Electric		
Standby mode	P <sub>TO</sub>	0.025	kW				
Crankcase heater mode	P <sub>CK</sub>	0.025	kW				
Other items				Rated air flow rate, outdoor			
Capacity control	variable				-	5015	m <sup>3</sup> /h
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
Annual energy consumption	Q <sub>HE</sub>	5517	kWh				
For heat pump combination heater				Water heating energy efficiency			
Declared load profile	XL			Daily electricity consumption	Q <sub>elec</sub>	7.243	kWh
Daily electricity consumption	Q <sub>elec</sub>	7.243	kWh	Annual fuel consumption	AFC	-	GJ
Annual electricity consumption	AEC	1518	kWh				
Contact details				ARGOCLIMA S.p.A.Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy			



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Model		AG4HP123PH					
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Heat pump combination heater	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Climate	<input type="checkbox"/> Average <input checked="" 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	11	kW	Seasonal space heating energy efficiency	$\eta_s$	159	%
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	7.0	kW	Tj = - 7°C	COPd	3.40	-
Degradation coefficient	Cdh	0.99	-	Tj = + 2°C	COPd	5.04	-
Tj = + 2°C	Pdh	4.2	kW	Tj = + 7°C	COPd	6.04	-
Degradation coefficient	Cdh	0.97	-	Tj = + 12°C	COPd	7.23	-
Tj = + 7°C	Pdh	3.0	kW	Tj = bivalent temperature	COPd	2.42	-
Degradation coefficient	Cdh	0.95	-	Tj = operation limit temperature	COPd	1.79	-
Tj = + 12°C	Pdh	3.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.42	kW
Degradation coefficient	Cdh	0.95	-	Operation limit temperature	TOL	-22	°C
Tj = bivalent temperature	Pdh	9.0	kW	Cycling interval efficiency	COPcyc	-	-
Tj = operation limit temperature	Pdh	7.6	kW	Heating water operating limit temperature	WTOL	65	°C
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.0	kW				
Bivalent temperature	Tbiv	-15	°C				
Cycling interval capacity for heating	Pcych	-	kW				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.025	kW	Rated heat output	P <sub>sup</sub>	3.4	kW
Thermostat-off mode	P <sub>SB</sub>	0.025	kW	Type of energy input	Electric		
Standby mode	P <sub>TO</sub>	0.025	kW				
Crankcase heater mode	P <sub>CK</sub>	0.025	kW				
Other items				Other items			
Capacity control	variable			Rated air flow rate, outdoor	-	5015	m <sup>3</sup> /h
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
Annual energy consumption	Q <sub>HE</sub>	6685	kWh				
For heat pump combination heater				For heat pump combination heater			
Declared load profile	XL			Water heating energy efficiency	$\eta_{wh}$	87	%
Daily electricity consumption	Q <sub>elec</sub>	9.164	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electricity consumption	AEC	1924	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	ARGOCLIMA S.p.A. Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy						



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Model		AG4HP123PH	
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Heat pump combination heater	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Climate	<input type="checkbox"/> Average <input type="checkbox"/> Colder <input checked="" 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
Rated heat output	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	-	kW
Degradation coefficient	Cdh	-	-
Tj = + 2°C	Pdh	11.7	kW
Degradation coefficient	Cdh	0.99	-
Tj = + 7°C	Pdh	7.5	kW
Degradation coefficient	Cdh	0.98	-
Tj = + 12°C	Pdh	3.5	kW
Degradation coefficient	Cdh	0.94	-
Tj = bivalent temperature	Pdh	11.7	kW
Tj = operation limit temperature	Pdh	11.7	kW
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcych	-	kW
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_s$	244	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	-	-
Tj = + 2°C	COPd	3.43	-
Tj = + 7°C	COPd	5.41	-
Tj = + 12°C	COPd	7.85	-
Tj = bivalent temperature	COPd	3.43	-
Tj = operation limit temperature	COPd	3.43	-
Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode			
Off mode	P <sub>OFF</sub>	0.025	kW
Thermostat-off mode	P <sub>SB</sub>	0.025	kW
Standby mode	P <sub>TO</sub>	0.025	kW
Crankcase heater mode	P <sub>CK</sub>	0.025	kW
Supplementary heater			
Rated heat output	P <sub>sup</sub>	0.3	kW
Type of energy input	Electric		
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB
Annual energy consumption	Q <sub>HE</sub>	2531	kWh
Rated air flow rate, outdoor	-	5015	m <sup>3</sup> /h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
For heat pump combination heater			
Declared load profile	XL		
Daily electricity consumption	Q <sub>elec</sub>	7.036	kWh
Annual electricity consumption	AEC	1475	kWh
Water heating energy efficiency	$\eta_{wh}$	113	%
Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual fuel consumption	AFC	-	GJ
Contact details	ARGOCLIMA S.p.A.Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy		



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Model		AG4HP123PH					
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 type="checkbox"/> Yes <input checked="" 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	12	kW	Seasonal space heating energy efficiency	$\eta_s$	137	%
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	10.5	kW	Tj = - 7°C	COPd	2.02	-
Degradation coefficient	Cdh	1.00	-	Tj = + 2°C	COPd	3.66	-
Tj = + 2°C	Pdh	6.9	kW	Tj = + 7°C	COPd	4.30	-
Degradation coefficient	Cdh	0.99	-	Tj = + 12°C	COPd	5.12	-
Tj = + 7°C	Pdh	4.4	kW	Tj = bivalent temperature	COPd	2.02	-
Degradation coefficient	Cdh	0.98	-	Tj = operation limit temperature	COPd	2.02	-
Tj = + 12°C	Pdh	3.0	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Degradation coefficient	Cdh	0.96	-	Operation limit temperature	TOL	-10	°C
Tj = bivalent temperature	Pdh	10.5	kW	Cycling interval efficiency	COPcyc	-	-
Tj = operation limit temperature	Pdh	11.5	kW	Heating water operating limit temperature	WTOL	65	°C
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW				
Bivalent temperature	Tbiv	-7	°C				
Cycling interval capacity for heating	Pcych	-	kW				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.025	kW	Rated heat output	P <sub>sup</sub>	0.4	kW
Thermostat-off mode	P <sub>SB</sub>	0.025	kW	Type of energy input	Electric		
Standby mode	P <sub>TO</sub>	0.025	kW				
Crankcase heater mode	P <sub>CK</sub>	0.025	kW				
Other items				Rated air flow rate, outdoor			
Capacity control	variable				-	5015	m <sup>3</sup> /h
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
Annual energy consumption	Q <sub>HE</sub>	6990	kWh				
For heat pump combination heater				Water heating energy efficiency			
Declared load profile	XL			Daily electricity consumption	Q <sub>elec</sub>	7.243	kWh
Daily electricity consumption	Q <sub>elec</sub>	7.243	kWh	Annual fuel consumption	AFC	-	GJ
Annual electricity consumption	AEC	1518	kWh				
Contact details				ARGOCLIMA S.p.A.Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy			



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Model		AG4HP123PH					
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Heat pump combination heater	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Climate	<input type="checkbox"/> Average <input checked="" 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	12	kW	Seasonal space heating energy efficiency	$\eta_s$	117	%
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	7.8	kW	Tj = - 7°C	COPd	2.55	-
Degradation coefficient	Cdh	0.99	-	Tj = + 2°C	COPd	3.71	-
Tj = + 2°C	Pdh	4.4	kW	Tj = + 7°C	COPd	4.61	-
Degradation coefficient	Cdh	0.98	-	Tj = + 12°C	COPd	5.24	-
Tj = + 7°C	Pdh	2.9	kW	Tj = bivalent temperature	COPd	1.79	-
Degradation coefficient	Cdh	0.96	-	Tj = operation limit temperature	COPd	1.06	-
Tj = + 12°C	Pdh	3.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.79	kW
Degradation coefficient	Cdh	0.96	-	Operation limit temperature	TOL	-22	°C
Tj = bivalent temperature	Pdh	9.6	kW	Cycling interval efficiency	COPcyc	-	-
Tj = operation limit temperature	Pdh	6.7	kW	Heating water operating limit temperature	WTOL	65	°C
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.6	kW				
Bivalent temperature	Tbiv	-15	°C				
Cycling interval capacity for heating	Pcych	-	kW				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.025	kW	Rated heat output	P <sub>sup</sub>	5.3	kW
Thermostat-off mode	P <sub>SB</sub>	0.025	kW	Type of energy input	Electric		
Standby mode	P <sub>TO</sub>	0.025	kW				
Crankcase heater mode	P <sub>CK</sub>	0.025	kW				
Other items				Other items			
Capacity control	variable			Rated air flow rate, outdoor	-	5015	m <sup>3</sup> /h
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
Annual energy consumption	Q <sub>HE</sub>	9548	kWh				
For heat pump combination heater				For heat pump combination heater			
Declared load profile	XL			Water heating energy efficiency	$\eta_{wh}$	87	%
Daily electricity consumption	Q <sub>elec</sub>	9.164	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electricity consumption	AEC	1924	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	ARGOCLIMA S.p.A.Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy						



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Model		AG4HP123PH	
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Heat pump combination heater	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Climate	<input type="checkbox"/> Average <input type="checkbox"/> Colder <input checked="" 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
Rated heat output	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	-	kW
Degradation coefficient	Cdh	-	-
Tj = + 2°C	Pdh	12.3	kW
Degradation coefficient	Cdh	0.99	-
Tj = + 7°C	Pdh	7.9	kW
Degradation coefficient	Cdh	0.99	-
Tj = + 12°C	Pdh	3.6	kW
Degradation coefficient	Cdh	0.96	-
Tj = bivalent temperature	Pdh	12.3	kW
Tj = operation limit temperature	Pdh	12.3	kW
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcych	-	kW
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_s$	169	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	-	-
Tj = + 2°C	COPd	2.51	-
Tj = + 7°C	COPd	3.50	-
Tj = + 12°C	COPd	5.80	-
Tj = bivalent temperature	COPd	2.51	-
Tj = operation limit temperature	COPd	2.51	-
Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode			
Off mode	P <sub>OFF</sub>	0.025	kW
Thermostat-off mode	P <sub>SB</sub>	0.025	kW
Standby mode	P <sub>TO</sub>	0.025	kW
Crankcase heater mode	P <sub>CK</sub>	0.025	kW
Supplementary heater			
Rated heat output	P <sub>sup</sub>	0	kW
Type of energy input	Electric		
Other items			
Capacity control	variable		
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB
Annual energy consumption	Q <sub>HE</sub>	3822	kWh
Rated air flow rate, outdoor	-	5015	m <sup>3</sup> /h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h
For heat pump combination heater			
Declared load profile	XL		
Daily electricity consumption	Q <sub>elec</sub>	7.036	kWh
Annual electricity consumption	AEC	1475	kWh
Water heating energy efficiency	$\eta_{wh}$	113	%
Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual fuel consumption	AFC	-	GJ
Contact details	ARGOCLIMA S.p.A.Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy		