



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		AG4HP163PH					
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	13	kW	Seasonal space heating energy efficiency	η_s	179	%
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	11.6	kW	Tj = - 7°C	COPd	2.89	-
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	7.53	-
Tj = + 7°C	Pdh	4.5	kW	Tj = bivalent temperature	COPd	2.89	-
Degradation coefficient	Cdh	0.97	-	Tj = operation limit temperature	COPd	2.29	-
Tj = + 12°C	Pdh	3.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Degradation coefficient	Cdh	0.95	-	Operation limit temperature	TOL	-10	°C
Tj = bivalent temperature	Pdh	11.6	kW	Cycling interval efficiency	COPcyc	-	-
Tj = operation limit temperature	Pdh	11.1	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 _{OFF}	0.025	kW	Rated heat output	P _{sup}	1.9	kW
Thermostat-off mode	P _{SB}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{TO}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items				Other items			
Capacity control	variable			Rated air flow rate, outdoor	-	5015	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	5927	kWh				
For heat pump combination heater				For heat pump combination heater			
Declared load profile	XL			Water heating energy efficiency	η_{wh}	110	%
Daily electricity consumption	Q _{elec}	7.243	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	1518	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		AG4HP163PH					
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	12	kW	Seasonal space heating energy efficiency	η_s	158	%
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	6.06	-
Degradation coefficient	Cdh	0.97	-	Tj = + 12°C	COPd	6.17	-
Tj = + 7°C	Pdh	3.0	kW	Tj = bivalent temperature	COPd	2.38	-
Degradation coefficient	Cdh	0.95	-	Tj = operation limit temperature	COPd	1.79	-
Tj = + 12°C	Pdh	3.2	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.38	kW
Degradation coefficient	Cdh	0.95	-	Operation limit temperature	TOL	-22	°C
Tj = bivalent temperature	Pdh	9.7	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	9.7	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 _{OFF}	0.025	kW	Rated heat output	P _{sup}	4.4	kW
Thermostat-off mode	P _{SB}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{TO}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items				Other items			
Capacity control	variable			Rated air flow rate, outdoor	-	5015	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	7293	kWh				
For heat pump combination heater				For heat pump combination heater			
Declared load profile	XL			Water heating energy efficiency	η_{wh}	87	%
Daily electricity consumption	Q _{elec}	9.164	kWh	Daily fuel consumption	Q _{fuel}	-	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		AG4HP163PH					
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	Item	Symbol	Value	Unit
Rated heat output	Prated	14	kW	Seasonal space heating energy efficiency	η_s	241	%
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	-	kW	Tj = - 7°C	COPd	-	-
Degradation coefficient	Cdh	-	-	Tj = + 2°C	COPd	2.90	-
Tj = + 2°C	Pdh	13.7	kW	Tj = + 7°C	COPd	5.36	-
Degradation coefficient	Cdh	0.99	-	Tj = + 12°C	COPd	7.86	-
Tj = + 7°C	Pdh	8.5	kW	Tj = bivalent temperature	COPd	2.90	-
Degradation coefficient	Cdh	0.98	-	Tj = operation limit temperature	COPd	2.90	-
Tj = + 12°C	Pdh	3.7	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Degradation coefficient	Cdh	0.95	-	Operation limit temperature	TOL	2	°C
Tj = bivalent temperature	Pdh	13.7	kW	Cycling interval efficiency	COPcyc	-	-
Tj = operation limit temperature	Pdh	13.7	kW	Heating water operating limit temperature	WTOL	65	°C
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW				
Bivalent temperature	Tbiv	2	°C				
Cycling interval capacity for heating	Pcych	-	kW				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output	P _{sup}	0.3	kW
Thermostat-off mode	P _{SB}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{TO}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items				Other items			
Capacity control	variable			Rated air flow rate, outdoor	-	5015	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	2995	kWh				
For heat pump combination heater				For heat pump combination heater			
Declared load profile	XL			Water heating energy efficiency	η_{wh}	113	%
Daily electricity consumption	Q _{elec}	7.036	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	1475	kWh	Annual fuel consumption	AFC	-	GJ
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Model		AG4HP163PH					
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	14	kW	Seasonal space heating energy efficiency	η_s	138	%
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	12.1	kW	Tj = - 7°C	COPd	2.17	-
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	4.93	-
Tj = + 7°C	Pdh	4.4	kW	Tj = bivalent temperature	COPd	2.17	-
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	12.1	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 _{OFF}	0.025	kW	Rated heat output	P _{sup}	2.5	kW
Thermostat-off mode	P _{SB}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{TO}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items				Other items			
Capacity control	variable			Rated air flow rate, outdoor	-	5015	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	-68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	8014	kWh				
For heat pump combination heater				For heat pump combination heater			
Declared load profile	XL			Water heating energy efficiency	η_{wh}	110	%
Daily electricity consumption	Q _{elec}	7.243	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	1518	kWh	Annual fuel consumption	AFC	-	GJ
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Model		AG4HP163PH					
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	13	kW	Seasonal space heating energy efficiency	η_s	118	%
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	5.02	-
Tj = + 7°C	Pdh	2.9	kW	Tj = bivalent temperature	COPd	1.82	-
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	1.82	kW
Degradation coefficient	Cdh	0.96	-	Operation limit temperature	TOL	-22	°C
Tj = bivalent temperature	Pdh	10.4	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	10.4	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 _{OFF}	0.025	kW	Rated heat output	P _{sup}	6.3	kW
Thermostat-off mode	P _{SB}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{TO}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				
Other items				Rated air flow rate, outdoor			
Capacity control	variable				-	5015	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	10373	kWh				
For heat pump combination heater				Water heating energy efficiency			
Declared load profile	XL			Daily electricity consumption	Q _{elec}	9.164	kWh
Daily electricity consumption	Q _{elec}	9.164	kWh	Annual fuel consumption	AFC	-	GJ
Annual electricity consumption	AEC	1924	kWh				
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Model		AG4HP163PH	
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	Item	Symbol	Value	Unit
Rated heat output	Prated	15	kW	Seasonal space heating energy efficiency	η_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	-	kW	Tj = - 7°C	COPd	-	-
Degradation coefficient	Cdh	-	-	Tj = + 2°C	COPd	2.31	-
Tj = + 2°C	Pdh	14.6	kW	Tj = + 7°C	COPd	3.29	-
Degradation coefficient	Cdh	1.00	-	Tj = + 12°C	COPd	5.47	-
Tj = + 7°C	Pdh	8.8	kW	Tj = bivalent temperature	COPd	2.31	-
Degradation coefficient	Cdh	0.99	-	Tj = operation limit temperature	COPd	2.31	-
Tj = + 12°C	Pdh	3.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Degradation coefficient	Cdh	0.97	-	Operation limit temperature	TOL	2	°C
Tj = bivalent temperature	Pdh	14.6	kW	Cycling interval efficiency	COPcyc	-	-
Tj = operation limit temperature	Pdh	14.6	kW	Heating water operating limit temperature	WTOL	65	°C
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW				
Bivalent temperature	Tbiv	2	°C				
Cycling interval capacity for heating	Pcych	-	kW				

Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output	P _{sup}	0	kW
Thermostat-off mode	P _{SB}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{TO}	0.025	kW				
Crankcase heater mode	P _{CK}	0.025	kW				

Other items				Other items			
Capacity control	variable			Rated air flow rate, outdoor	-	5015	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	4801	kWh				

For heat pump combination heater							
Declared load profile				Water heating energy efficiency			
XL				η_{wh}	113	%	
Daily electricity consumption	Q _{elec}	7.036	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	1475	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	ARGOCLIMA S.p.A. Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy
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