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	**AGHP121PH**
Type of heat pump	☒ Air-to-water 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 ☐ Colder ☐ Warmer
Temperature application	☐ Medium (55°C) ☒ Low (35°C)
Applied starndards	EN14825 / EN16147

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**11**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	9,40	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 2°C	Pdh	5,80	kW
Degradation coefficient	Cdh	0,98	-
Tj = + 7°C	Pdh	7,70	kW
Degradation coefficient	Cdh	0,98	-
Tj = + 12°C	Pdh	9,60	kW
Degradation coefficient	Cdh	0,97	-
Tj = bivalent temperature	Pdh	9,40	kW
Tj = operation limit temperature	Pdh	10,80	kW
T j = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	Pcych	-	kW
	Cdh	0,9	-

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_s**	**177**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	3,07	-
Tj = + 2°C	COPd	4,24	-
Tj = + 7°C	COPd	5,82	-
Tj = + 12°C	COPd	8,21	-
Tj = bivalent temperature	COPd	3,07	-
Tj = operation limit temperature	COPd	2,42	-
T j = – 15 °C (if TOL < – 20 °C)	COPd	-	kW
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,025	kW
Thermostat-off mode	P_{SB}	0,025	kW
Standby mode	P_{TO}	0,025	kW
Crankcase heater mode	P_{CK}	0,010	kW

Supplementary heater			
Rated heat output	Psup	0,14	kW
Type of energy input	Electric		

Other items			
Capacity control	variable		
Sound power level, indoor / outdoor	L_{WA}	- / 69	dB
Annual energy consumption	Q_{HE}	4902	kWh

Rated air flow rate, outdoor	-	4500	m^3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater			
Declared load profile	**XL**		
Daily electricity consumption	Qelec	8835	kWh
Annual electricity consumption	AEC	1843	kWh

Water heating energy efficiency	**η_{wh}**	**90,9**	**%**
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details	**Argoclima Spa - Via Alfeno Varo, 35 - 25020 Alfianello (BS) Italy**

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	**AGHP121PH**
Type of heat pump	☒ Air-to-water 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 ☒ Colder ☐ Warmer
Temperature application	☐ Medium (55°C) ☒ Low (35°C)
Applied starndards	EN14825 / EN16147

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**8**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	6,60	kW
Degradation coefficient	Cdh	0,98	-
Tj = + 2°C	Pdh	5,20	kW
Degradation coefficient	Cdh	0,98	-
Tj = + 7°C	Pdh	7,80	kW
Degradation coefficient	Cdh	0,97	-
Tj = + 12°C	Pdh	9,80	kW
Degradation coefficient	Cdh	0,97	-
Tj = bivalent temperature	Pdh	6,50	kW
Tj = operation limit temperature	Pdh	9,20	kW
T j = – 15 °C (if TOL < – 20 °C)	Pdh	6,50	kW
Bivalent temperature	Tbiv	-15	°C
Cycling interval capacity for heating	Pcych	-	kW

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_s**	**141**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	3,03	-
Tj = + 2°C	COPd	4,15	-
Tj = + 7°C	COPd	5,93	-
Tj = + 12°C	COPd	8,26	-
Tj = bivalent temperature	COPd	2,22	-
Tj = operation limit temperature	COPd	2,01	-
T j = – 15 °C (if TOL < – 20 °C)	COPd	2,22	kW
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,025	kW
Thermostat-off mode	P_{SB}	0,025	kW
Standby mode	P_{TO}	0,020	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater			
Rated heat output	Psup	0,0	kW
Type of energy input	Electric		

Other items			
Capacity control	variable		
Sound power level, indoor / outdoor	L_{WA}	- / 69	dB
Annual energy consumption	Q_{HE}	5444	kWh

Rated air flow rate, outdoor	-	4500	m^3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater			
Declared load profile	**XL**		
Daily electricity consumption	Qelec	11306	kWh
Annual electricity consumption	AEC	2441	kWh

Water heating energy efficiency	**η_{wh}**	**68,6**	**%**
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details	**Argoclima Spa - Via Alfeno Varo, 35 - 25020 Alfianello (BS) Italy**

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	**AGHP121PH**
Type of heat pump	☒ Air-to-water 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 ☐ Colder ☒ Warmer
Temperature application	☐ Medium (55°C) ☒ Low (35°C)
Applied starndards	EN14825 / EN16147

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**11**	**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	11,00	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 7°C	Pdh	8,40	kW
Degradation coefficient	Cdh	0,98	-
Tj = + 12°C	Pdh	9,60	kW
Degradation coefficient	Cdh	0,97	-
Tj = bivalent temperature	Pdh	11,00	kW
Tj = operation limit temperature	Pdh	11,00	kW
T j = – 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	**η_s**	**227**	**%**
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	3,24	-
Tj = + 7°C	COPd	5,10	-
Tj = + 12°C	COPd	7,39	-
Tj = bivalent temperature	COPd	3,24	-
Tj = operation limit temperature	COPd	3,24	-
T j = – 15 °C (if TOL < – 20 °C)	COPd	-	kW
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,025	kW
Thermostat-off mode	P_{SB}	0,025	kW
Standby mode	P_{TO}	0,025	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater			
Rated heat output	Psup	0,0	kW
Type of energy input	Electric		

Other items			
Capacity control	variable		
Sound power level, indoor / outdoor	L_{WA}	- / 69	dB
Annual energy consumption	Q_{HE}	2590	kWh

Rated air flow rate, outdoor	-	4500	m^3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater			
Declared load profile	**XL**		
Daily electricity consumption	Qelec	8459	kWh
Annual electricity consumption	AEC	1760	kWh

Water heating energy efficiency	**η_{wh}**	**95,2**	**%**
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

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

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	**AGHP121PH**
Type of heat pump	☒ Air-to-water 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 ☐ Colder ☐ Warmer
Temperature application	☒ Medium (55°C) ☐ Low (35°C)
Applied starndards	EN14825 / EN16147

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**10**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	8,40	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 2°C	Pdh	6,80	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 7°C	Pdh	7,30	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 12°C	Pdh	9,50	kW
Degradation coefficient	Cdh	0,98	-
Tj = bivalent temperature	Pdh	8,40	kW
Tj = operation limit temperature	Pdh	10,10	kW
T j = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	Pcych	-	kW

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_s**	**126**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	2,01	-
Tj = + 2°C	COPd	3,06	-
Tj = + 7°C	COPd	4,25	-
Tj = + 12°C	COPd	6,50	-
Tj = bivalent temperature	COPd	2,01	-
Tj = operation limit temperature	COPd	1,78	-
T j = – 15 °C (if TOL < – 20 °C)	COPd	-	kW
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,025	kW
Thermostat-off mode	P_{SB}	0,025	kW
Standby mode	P_{TO}	0,025	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater			
Rated heat output	Psup	0,0	kW
Type of energy input	Electric		

Other items			
Capacity control	variable		
Sound power level, indoor / outdoor	L_{WA}	- / 69	dB
Annual energy consumption	Q_{HE}	6119	kWh

Rated air flow rate, outdoor	-	4500	m^3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater			
Declared load profile	**XL**		
Daily electricity consumption	Qelec	8835	kWh
Annual electricity consumption	AEC	1843	kWh

Water heating energy efficiency	**η_{wh}**	**90,9**	**%**
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

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

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	**AGHP121PH**
Type of heat pump	☒ Air-to-water 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 ☒ Colder ☐ Warmer
Temperature application	☒ Medium (55°C) ☐ Low (35°C)
Applied starndards	EN14825 / EN16147

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**8**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	6,00	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 2°C	Pdh	6,00	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 7°C	Pdh	7,40	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 12°C	Pdh	9,70	kW
Degradation coefficient	Cdh	0,99	-
Tj = bivalent temperature	Pdh	6,70	kW
Tj = operation limit temperature	Pdh	8,00	kW
T j = – 15 °C (if TOL < – 20 °C)	Pdh	6,70	kW
Bivalent temperature	Tbiv	-15	°C
Cycling interval capacity for heating	Pcych	-	kW

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_s**	**103**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	2,09	-
Tj = + 2°C	COPd	2,99	-
Tj = + 7°C	COPd	4,66	-
Tj = + 12°C	COPd	6,96	-
Tj = bivalent temperature	COPd	1,91	-
Tj = operation limit temperature	COPd	1,51	-
T j = – 15 °C (if TOL < – 20 °C)	COPd	1,91	kW
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,025	kW
Thermostat-off mode	P_{SB}	0,025	kW
Standby mode	P_{TO}	0,025	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater			
Rated heat output	Psup	0,0	kW
Type of energy input	Electric		

Other items			
Capacity control	variable		
Sound power level, indoor / outdoor	L_{WA}	- / 69	dB
Annual energy consumption	Q_{HE}	7691	kWh

Rated air flow rate, outdoor	-	4500	m^3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater			
Declared load profile	**XL**		
Daily electricity consumption	Qelec	11306	kWh
Annual electricity consumption	AEC	2441	kWh

Water heating energy efficiency	**η_{wh}**	**68,6**	**%**
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

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

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

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Model	**AGHP121PH**
Type of heat pump	☒ Air-to-water 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 ☐ Colder ☒ Warmer
Temperature application	☒ Medium (55°C) ☐ Low (35°C)
Applied starndards	EN14825 / EN16147

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**8**	**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	7,80	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 7°C	Pdh	6,50	kW
Degradation coefficient	Cdh	0,99	-
Tj = + 12°C	Pdh	9,50	kW
Degradation coefficient	Cdh	0,98	-
Tj = bivalent temperature	Pdh	7,80	kW
Tj = operation limit temperature	Pdh	7,80	kW
T j = – 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	**η_s**	**150**	**%**
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	2,27	-
Tj = + 7°C	COPd	2,97	-
Tj = + 12°C	COPd	5,52	-
Tj = bivalent temperature	COPd	2,27	-
Tj = operation limit temperature	COPd	2,27	-
T j = – 15 °C (if TOL < – 20 °C)	COPd	-	kW
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,025	kW
Thermostat-off mode	P_{SB}	0,025	kW
Standby mode	P_{TO}	0,025	kW
Crankcase heater mode	P_{CK}	0,000	kW

Supplementary heater			
Rated heat output	Psup	0,0	kW
Type of energy input	Electric		

Other items			
Capacity control	variable		
Sound power level, indoor / outdoor	L_{WA}	- / 69	dB
Annual energy consumption	Q_{HE}	2723	kWh

Rated air flow rate, outdoor	-	4500	m^3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater			
Declared load profile	**XL**		
Daily electricity consumption	Qelec	8459	kWh
Annual electricity consumption	AEC	1760	kWh

Water heating energy efficiency	**η_{wh}**	**95,2**	**%**
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

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

Information requirements (comfort chillers)

As by Table 11 of COMMISSION REGULATION (EU) 2016/2281 of 30 November 2016 implementing Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of ecodesign requirements for energy-related products, with regard to ecodesign requirements for air heating products, cooling products, high temperature process chillers and fan coil units.

MODEL : AGHP121PH

Outdoor side heat exchanger of airconditioner : air

Indoor side heat exchanger of airconditioner : water

Type: compressor driven vapour compression

Driver of compressor: electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	8	kW	Seasonal space cooling energy efficiency	ηs,c	176	%
				,			
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19 °C (dry/wet bulb)				**Declared energy efficiency ratio for part load at given outdoor temperatures Tj**			
Tj = 35°C	Pdc	7,80	kW	Tj = 35°C	EERd	2,95	-
Tj = 30°C	Pdc	5,90	kW	Tj = 30°C	EERd	3,95	-
Tj = 25°C	Pdc	4,60	kW	Tj = 25°C	EERd	5,22	-
Tj = 20°C	Pdc	6,00	kW	Tj = 20°C	EERd	6,69	-
Degradation co-efficient for air conditioners(*)	Cdc	0,9	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0,018	kW	Crankcase heater mode	P_{CK}	-	kW
Thermostat-off mode	P_{TO}	0,018	kW	«stand-by» mode	P_{SB}	0,018	kW
Other items							
Capacity control		Variable		For air-to-air air conditioner: air flow rate, outdoor measured	L_{WA}	4500	m^3/h
Sound power level, indoor/outdoor	L_{WA}	69	dB(A)				
If engine driven: Emissions of nitrogen oxides	NOX(**)	-	mg/kWh input GCV				
GWP of the refrigerant	GWP	675	kg CO2 eq (100 years)				
Contact details:				**Argoclima Spa - Via Alfeno Varo, 35 - 25020 Alfianello (BS) - Italy**			

(**) If Cdh is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.

(***) From 26 September 2018. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

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 : AGHP121PH

SEASONAL SPACE HEATING ENERGY EFFICIENCY CLASS			**A++**
		55°C	
Rated heat output (average climate conditions)	**Prated**	**10**	**kW**
DECLARED LOAD PROFILE			**XL**
SEASONAL WATER HEATING ENERGY EFFICIENCY CLASS			**A**
		55°C	
Annual energy consumption (average climate conditions)	**Q_{HE}**	**6119**	**kWh**
Annual electricity consumption for water heating (average climate conditions)	**AEC**	**1843**	**kWh**
		55°C	
Seasonal space heating energy efficiency (average climate conditions)	**η_s**	**126**	**%**
Water heating energy efficiency (average climate conditions)	**η_{wh}**	**90.9**	**%**
		55°C	
Rated heat output (colder climate conditions)	Pnominale	8	kW
Rated heat output (warmer climate conditions)	Pnominale	8	kW
		55°C	
Annual electricity consumption for space heating (colder climate conditions)	Q_{HE}	7619	kWh
Annual electricity consumption for space heating (warmer climate conditions)	Q_{HE}	2810	kWh
Annual electricity consumption for water heating (colder climate conditions)	AEC	2723	kWh
Annual electricity consumption for water heating (warmer climate conditions)	AEC	1760	kWh
		55°C	
Seasonal space heating energy efficiency (colder climate conditions)	η_s	103	%
Seasonal space heating energy efficiency (warmer climate conditions)	η_s	150	%
Water heating energy efficiency (colder climate conditions)	η_{wh}	68.6	%
Water heating energy efficiency (warmer climate conditions)	η_{wh}	95.2	%
		Outdoor	
Sound power level	L_{WA}	69	dB
Contact information	**Argoclima Spa - Via Alfeno Varo 35 - 25020 Alfianello (BS) ITALY**		

Specific precautions for assembly, installation and maintenance of the combined heat pump:

(1) Before proceeding with the installation, check that the power supply used corresponds to that indicated on the data plate and check the safety of the current;
(2) Before use, check and confirm that the electrical connections and water pipes are made correctly, to avoid water leaks, electric shocks or fires;
(3) Do not operate the machine with wet hands and do not allow children to play with the unit;
(4) The On / Off key is used to switch the unit on or off by the end user, to switch off the unit completely disconnect the power cord;
(5) Do not expose the unit to corrosive environment with water or humidity;
(6) Do not use the unit without water in the tank. The air delivery and return must not be obstructed with objects;
(7) The water in the unit and piping should be drained when not using the unit to prevent freeze breakage of the tank, water pipes and water pump;
(8) Never press the button with sharp objects to avoid damaging the hand control.
Never use other connections instead of the special communication lines of the unit to protect the control elements.
Never clean the hand control with benzine or thinner to avoid discoloration of the surface or elements being damaged.
Clean the unit with a damp cloth. Gently clean the display screen and connecting parts to prevent them from being damaged;
(9) The power cable must be separated from the communication lines.