

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 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	AGHP161PH								
	🗵 Air-to-wa	ater heat pum	р						
Type of heat pump	□ Water-to-water heat pump								
	□ Brine-to-	water heat pu	Imp						
Low-temperature heat pump	□ Yes	⊐ Yes 🖾 No							
Equipped with a supplementary heater	□ Yes	I Yes ⊠ No							
Heat pump combination heater	🗵 Yes	□ No							
Climate	🗵 Average	9	□ Colder	□ Warmer					
Temperature application	Medium	Medium (55°C) 🛛 Low (35°C)							
Applied starndards	EN14825 / E	N16147							
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit		
Rated heat output	Prated	Prated 13 kW Seasonal space heating energy efficiency η _s 166 %							
Declared capacity for heating for part lo outdoor temperature Ti	oad at indoor te	emperature 20) °C and	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Ti					
$Ti = -7^{\circ}C$	Pdh	11.40	k\M			,			
Degradation coefficient	Cdh	1.00	-	Tj = - 7°C	COPd	2,64	-		
$T_i = + 2^{\circ}C$	Pdh	7,00	kW	T	005	0.00			
Degradation coefficient	Cdh	0,98	-	$1 J = + 2^{\circ}C$	COPd	3,98	-		
$T_i = +7^{\circ}C$	Pdh	7,70	kW	T - + 7%	0054	E 00			
Degradation coefficient	Cdh	0,98	-	$1_{j} = + 7^{\circ}C$	COPd	5,82	-		
Tj = + 12°C	Pdh	9,60	kW	T 10%0		0.01			
Degradation coefficient	Cdh	0,97	-	$1j = +12^{\circ}C$	COPa	8,21	-		
Tj = bivalent temperature	Pdh	11,40	kW	Tj = bivalent temperature	COPd	2,64	-		
Tj = operation limit temperature	Pdh	h 10,80 kW Tj = operation limit temperature				2,42	-		
T j = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	T j = – 15 °C (if TOL < – 20 °C)	COPd	-	kW		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C		
				Cycling interval efficiency	COPeve		-		
Cycling interval capacity for heating	Pcych	- kW		001 090					
				Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other	than active m	node		Supplementary heater					
Off mode	P _{OFF}	0,025	kW	Rated heat output	Psup	0,00	kW		
Thermostat-off mode	P _{SB}	0,025	kW						
Standby mode	P _{TO}	0,025	kW	Type of energy input		Electric			
Crankcase heater mode	Р _{ск}	0,010	kW						
Other items									
Capacity control		variable		Rated air flow rate, outdoor	-	4500	m³/h		
Sound power level, indoor / outdoor	L _{WA}	- / 72	dB	Rated brine or water flow rate, outdoor	-	-	m ³ /h		
Annual energy consumption	Q _{HE}	6284	kWh	heat exchanger					
For heat pump combination heater				,					
Declared load profile		XL		Water heating energy efficiency	η _{wh}	90,9	%		
Daily electricity consumption	Qelec	8835	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	1843	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details	Argoclima Spa - Via Alfeno Varo, 35 - 25020 Alfianello (BS) Italy								



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Model	AGHP161PH								
	☑ Air-to-water heat pump								
Type of heat pump	□ Water-to-water heat pump								
	□ Brine-to-	water heat pu	ımp						
Low-temperature heat pump	□ Yes	JYes ⊠ No							
Equipped with a supplementary heater	□ Yes	Yes 🗵 No							
Heat pump combination heater	🗵 Yes	🗆 No							
Climate	□ Average		⊠ Colder	□ Warmer					
Temperature application	□ Medium	Medium (55°C) 🛛 Low (35°C)							
Applied starndards	EN14825 / E	14825 / EN16147							
Item	Symbol	/mbol Value Unit Item Symbol Value Unit							
Rated heat output	Prated	Prated 11 kW Seasonal space heating energy efficiency η _s 135 %							
Declared capacity for heating for part lo	ad at indoor to	emperature 2	0 °C and	Declared coefficient of performance or p	orimary energ	y ratio for part	load at		
		0.00	1.24/		emperature i	J			
$I_{j} = -7^{2}C$	Pan	8,00	KVV	Tj = - 7°C	COPd	2,83	-		
	Can	0,98	-						
nj = + 2 0 Degradation coefficient	Cdb	0,30		Tj = + 2°C	COPd	3,98	-		
$T_i = + 7^{\circ}C_i$	Pdh	7.80	- kW						
Degradation coefficient	Cdh	0.97	-	Tj = + 7°C	COPd	5,93	-		
$Ti = + 12^{\circ}C$	Pdh	9.80	kW						
Degradation coefficient	Cdh	0.97	-	Tj = + 12°C	COPd	8,26	-		
Tj = bivalent temperature	Pdh	8,70	kW	Tj = bivalent temperature	COPd	2,22	-		
Tj = operation limit temperature	Pdh	9,20	kW	Tj = operation limit temperature	COPd	2,01	-		
T j = – 15 °C (if TOL < – 20 °C)	Pdh	8,70	kW	T j = – 15 °C (if TOL < – 20 °C)	COPd	2,22	kW		
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-25	°C		
					COPeye	_	_		
Cycling interval canacity for heating	Poych		k\M	Cycling interval enclency	COFCyc	-	-		
Cycling interval capacity for heating	reyen	_	KVV	Heating water operating limit	WTO	60	°C		
				temperature	WICE	00	0		
Device concurrentian in modes other	then estive m	a da		Cupulamentary bester					
Off made		0.025	14147	Supplementary heater	Davia	0.0	1-10/		
Chi mode	P _{OFF}	0,025	KVV KVV	Rated heat output	Psup	0,0	ĸvv		
Standby mode	P _{sb}	0,025	KVV KVV	Type of energy input		Electric			
Crankcase beater mode	P TO Paul	0,020		Type of energy liput		Electric			
Clankcase heater mode	I CK	0,000	KVV						
Other items									
Capacity control		variable		Rated air flow rate, outdoor	-	4500	m ³ /h		
		Valiable				4000	111 /11		
Sound power level, indoor / outdoor	L _{WA}	- /72	dB	Rated brine or water flow rate, outdoor			3		
Appuel operate concumption	0	7555	k\A/b	heat exchanger	-	-	m°/h		
Annual energy consumption	V HE	7555	KVVII						
For heat pump combination heater				-,					
Declared load profile		XL		Water heating energy efficiency	η_{wh}	68,6	%		
Daily electricity consumption	Qelec	11306	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	2441	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details	A	rgoclima	a Spa - V	ia Alfeno Varo, 35 - 25020 /	Alfianello	o (BS) Ital	у		



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Model	AGHP161PH								
	🗵 Air-to-wa	ater heat pum	р						
Type of heat pump	□ Water-to	-water heat p	ump						
	□ Brine-to-								
Low-temperature heat pump	□ Yes] Yes 🗵 No							
Equipped with a supplementary heater	□ Yes	Yes 🗵 No							
Heat pump combination heater	🗵 Yes	□ No							
Climate	□ Average		□ Colder	🗵 Warmer					
Temperature application	□ Medium	Medium (55°C)							
Applied starndards	EN14825 / E	14825 / EN16147							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	Prated 13 kW Seasonal space heating energy efficiency η _s 227 %							
Declared capacity for heating for part lo	Declared capacity for heating for part load at indoor temperature 20 °C and				Declared coefficient of performance or primary energy ratio for part load at				
	Ddb		L\\/		emperature 1	J			
IJ 7 C Degradation coefficient	Cdh	-	KVV	Tj = - 7°C	COPd	-	-		
Ti = + 2°C	Pdh	13.20	kW						
Degradation coefficient	Cdh	0.99	-	Tj = + 2°C	COPd	3,04	-		
$T_i = +7^{\circ}C$	Pdh	8.40	kW	Ti - + 7°0	000	E 40			
Degradation coefficient	Cdh	0,98	-	$1_{j} = +7^{\circ}C$	COPd	5,10	-		
Tj = + 12°C	Pdh	9,60	kW	Ti - 1 10°C		7.20			
Degradation coefficient	Cdh	0,97	-	1j = + 12 C	COPa	7,39	-		
Tj = bivalent temperature	Pdh	13,20	kW	Tj = bivalent temperature	COPd	3,04	-		
Tj = operation limit temperature	Pdh	13,20	kW	Tj = operation limit temperature	3,04	-			
T j = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	T j = – 15 °C (if TOL < – 20 °C)	COPd	-	kW		
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C		
Cycling interval capacity for heating	Pcvch	-	kW	Cycling interval efficiency	COPcyc	-	-		
	,			Heating water operating limit temperature	WTOL	60	°C		
Power concumption in modes other	than active m	odo		Supplementary bester					
Off mode		0.025	۲\ ۸ /	Rated heat output	Peup	0.0	k\\/		
Thermostat-off mode	Pop	0,025	kW		FSup	0,0	K V V		
Standby mode		0.025	kW	Type of energy input		Electric			
Crankcase heater mode	P _{CK}	0,000	kW			Liootilo			
Other items									
Capacity control		variable		Rated air flow rate, outdoor	-	4500	m³/h		
Sound power level, indoor / outdoor	L_{WA}	-/72	dB	Rated brine or water flow rate, outdoor			³ //-		
Annual energy consumption	Q _{HE}	3078	kWh	heat exchanger	-	-	m²/n		
						-			
For heat pump combination heater				۶					
Declared load profile		XL		Water heating energy efficiency	ղ wh	95,2	%		
Daily electricity consumption	Qelec	8459	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	1760	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details	ARG	OCLIMA	S.p.A.Vi	a Alfeno Varo, 35, 25020, A	lfianello	(BS), Ital	y		
			-						



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Model	AGHP161PH								
	🗵 Air-to-wa	☑ Air-to-water heat pump							
Type of heat pump	Water-to	-water heat p	ump						
	Brine-to-	Brine-to-water heat pump							
Low-temperature heat pump	□ Yes	∃Yes ⊠ No							
Equipped with a supplementary heater	□ Yes	Yes 🗵 No							
Heat pump combination heater	🗵 Yes	Yes 🗆 No							
Climate	🗵 Average	Average 🛛 Colder 🛛 Warmer							
Temperature application	🗵 Medium	Medium (55°C) □ Low (35°C)							
Applied starndards	EN14825 / E	14825 / EN16147							
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	Prated 13 kW Seasonal space heating energy efficiency η _s 125 %							
Declared capacity for heating for part lo	ad at indoor te	emperature 20) °C and	Declared coefficient of performance or p	orimary energy	y ratio for part	load at		
Tj = - 7°C	Pdh	11,20	kW	– Tj = - 7°C	COPd	1,96	-		
	Cdh	0,99	-						
$IJ = + 2^{\circ} U$	Pan	0,80	KVV	Tj = + 2°C	COPd	3,06	-		
	Ddh	7 20	- L/\//						
Degradation coefficient	Cdb	7,30	KVV	– Tj = + 7°C	COPd	4,25	-		
$Ti = + 12^{\circ}C$	Pdh	9.50	kW						
Degradation coefficient	Cdh	0.98	-	– Tj = + 12°C	COPd	6,50	-		
Tj = bivalent temperature	Pdh	11,20	kW	Tj = bivalent temperature	COPd	1,98	-		
Tj = operation limit temperature	Pdh	10,10	kW	Tj = operation limit temperature	1,78	-			
T j = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	T j = – 15 °C (if TOL < – 20 °C) COP		-	kW		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	-25	°C			
Cycling interval capacity for beating	Peych	- kW	Cycling interval efficiency	COPcyc	-	-			
eyoning interval capacity for heating	i oyon			Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other	than active m	ode		Supplementary heater					
Off mode	P _{OFF}	0,025	kW	Rated heat output	Psup	3,0	kW		
Thermostat-off mode	P _{SB}	0,025	kW						
Standby mode	P _{TO}	0,025	kW	Type of energy input		Electric			
Crankcase heater mode	P _{CK}	0,000	kW						
Other items									
Capacity control		variable		Rated air flow rate, outdoor	-	4500	m ³ /h		
	<u>t</u> .						111 /11		
Sound power level, indoor / outdoor	L _{WA}	-/72	dB	Rated brine or water flow rate, outdoor	-	-	m ³ /h		
Annual energy consumption	Q _{HE}	8161	kWh	indu excitatiger					
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	η_{wh}	90,9	%		
Daily electricity consumption	Qelec	8835	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	1843	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	AGHP161PH								
	🗵 Air-to-wa	ater heat pum	р						
Type of heat pump	□ Water-to	-water heat p	ump						
	□ Brine-to-	Brine-to-water heat pump							
Low-temperature heat pump	□ Yes	J Yes 🗵 No							
Equipped with a supplementary heater	□ Yes	Yes 🗵 No							
Heat pump combination heater	🗵 Yes	🗆 No							
Climate	□ Average		⊠ Colder	□ Warmer					
Temperature application	🗵 Medium	Medium (55°C) □ Low (35°C)							
Applied starndards	EN14825 / E	14825 / EN16147							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	Prated 11 kW Seasonal space heating energy efficiency η _s 100 %							
Declared capacity for heating for part lo outdoor temperature Tj	eclared capacity for heating for part load at indoor temperature 20 °C and utdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Ti				
Ti = - 7°C	Pdh	7.80	kW						
Degradation coefficient	Cdh	0,99	-	-11^{1} $J = -7^{\circ}C$	COPd	1,91	-		
Tj = + 2°C	Pdh	6,00	kW	Ti = + 2°C	COD4	2.00			
Degradation coefficient	Cdh	0,99	-	ij = + 2 C	COPa	2,99	-		
$Tj = + 7^{\circ}C$	Pdh	7,40	kW	$Ti = + 7^{\circ}C$	COPd	4.66	_		
Degradation coefficient	Cdh	0,99	-	1j - 1 7 0	001 0	4,00	_		
Tj = + 12°C	Pdh	9,70	kW	Ti = + 12°C	COPd	6.96	-		
Degradation coefficient	Cdh	0,99	-		0014	0,00	ļ		
Tj = bivalent temperature	Pdh	8,90	kW	Tj = bivalent temperature	COPd	1,86	-		
Tj = operation limit temperature	Pdh	8,00	kW	Tj = operation limit temperature	COPd	1,51	-		
$F_{i} = -15 \text{ °C (IF IOL < -20 \text{ °C})}$	Pan Thin	8,90	кvv °С	T = -15 C (IF TOL < -20 C)		1,80	κνν °C		
	TDIV	-15	C	Operation inflit temperature	TOL	-25	C		
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
				temperature WTOL 60					
Power consumption in modes other	than active m	ode	_	Supplementary heater					
Off mode	POFF	0.025	kW	Rated heat output	Psup	3.0	kW		
Thermostat-off mode	P _{SB}	0,025	kW		1 500 0,0				
Standby mode	P _{TO}	0,025	kW	Type of energy input		Electric			
Crankcase heater mode	Р _{ск}	0,000	kW						
Other items						1500	2		
Capacity control		variable		Rated air flow rate, outdoor	-	4500	m³/h		
Sound power level, indoor / outdoor	L _{WA}	- / 72	dB	Rated brine or water flow rate, outdoor	-	-	m ³ /h		
Annual energy consumption	Q _{HE}	10540	kWh	neat exchanger					
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	η_{wh}	68,6	%		
Daily electricity consumption	Qelec	11306	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	2441	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details ARGOCLIMA S.p.A.Via Alfeno Varo, 35, 25020, Alfianello (BS), Italy							y		



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Model	AGHP161PH								
	🗵 Air-to-wa	Air-to-water heat pump							
Type of heat pump	□ Water-to	-water heat p	ump						
	□ Brine-to-	Brine-to-water heat pump							
Low-temperature heat pump	□ Yes	🗵 No							
Equipped with a supplementary heater	□ Yes	Yes 🗵 No							
Heat pump combination heater	🗵 Yes	□ No							
Climate	Average		□ Colder	🗵 Warmer					
Temperature application	🗵 Medium	(55°C)	□ Low (35	5°C)					
Applied starndards	EN14825 / E	N16147							
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	Prated 9 kW Seasonal space heating energy efficiency η _s 150 %							
Declared capacity for heating for part lo outdoor temperature Ti	eclared capacity for heating for part load at indoor temperature 20 °C and utdoor temperature Ti				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature. Ti				
Ti = - 7°C	Pdh	-	kW			,			
Degradation coefficient	Cdh	-	-	Tj = - 7°C	COPd	-	-		
Tj = + 2°C	Pdh	8,80	kW	Ti = + 2°C	000-1	0.40			
Degradation coefficient	Cdh	1,00	-	ij = +2.0	COPd	2,16	-		
Tj = + 7°C	Pdh	6,50	kW	$Ti = + 7^{\circ}C$	COP4	2 07			
Degradation coefficient	Cdh	0,99	-	IJ = + 7 C	COFU	2,51	-		
Tj = + 12°C	Pdh	9,50	kW	Ti = + 12°C	COPd	5 52	_		
Degradation coefficient	Cdh	0,98	-	1] 12 0	0014	0,02	ļ		
Tj = bivalent temperature	Pdh	8,80	kW	Tj = bivalent temperature	COPd	2,16	-		
Tj = operation limit temperature	Pdh	8,80	kW	T_j = operation limit temperature	2,16	-			
$I_j = -15 \text{ °C} (\text{if IOL} < -20 \text{ °C})$	Pah	-	KVV °C	I J = -15 °C (if IOL < -20 °C)		-	KVV °C		
Bivalent temperature	VIDT	2	U U	Operation limit temperature	TOL	-20	U U		
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
				temperature	WTOL	60	°C		
Power consumption in modes other	than active m	ode		Supplementary heater					
Off mode	POFF	0.025	kW	Rated heat output	Psup	0.0	kW		
Thermostat-off mode	P _{SB}	0,025	kW	Hated Heat Supple	1 300 0,0				
Standby mode	P _{TO}	0,025	kW	Type of energy input		Electric			
Crankcase heater mode	P _{CK}	0,000	kW						
_									
Other items									
Capacity control		variable	•	Rated air flow rate, outdoor	-	4500	m ³ /h		
Sound power level, indoor / outdoor	L _{WA}	- / 72	dB	Rated brine or water flow rate, outdoor	_	-	m ³ /h		
Annual energy consumption	Q _{HE}	3072	kWh	heat exchanger					
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	η _{wh}	95,2	%		
Daily electricity consumption	Qelec	8459	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	1760	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details	ARG	OCLIMA	S.p.A.Vi	a Alfeno Varo, 35, 25020, A	lfianello	(BS), Ital	y		



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 : AGHP1	161PH								
Outdoor side heat e	xchanger of	airconditioner :	air						
Indoor side heat exc	changer of ai	irconditioner : w	ater						
Type: compressor d	Type: compressor driven vapour compression								
Driver of compresso	or: electric m	otor		-					
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit		
Rated cooling capacity	Prated,c	13	kW	Seasonal space cooling energy efficiency	ηs,c	179	%		
.				-		,			
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19 °C (dry/wet bulb)		lb)	temperatures Tj	ncy ratio for part l	oad at given ou	tdoor			
Tj = 35°C	Pdc	12,90	kW	Tj = 35°C	EERd	2,58	-		
Tj = 30°C	Pdc	9,40	kW	Tj = 30°C	EERd	3,84	-		
Tj = 25°C	Pdc	6,10	kW	Tj = 25°C	EERd	5,17	-		
Tj = 20°C	Pdc	5,00	kW	Tj = 20°C	EERd	6,69	-		
Degradation co- efficient for air conditioners(*)	Cdc	0,9	-						
		Power c	onsumption i	n modes other than 'act	ive mode'				
Off mode	P _{OFF}	0,018	kW	Crankcase heater mode	Р _{ск}	-	kW		
Thermostat-off mode	P _{TO}	0,018	kW	«stand-by» mode	P _{SB}	0,018	kW		
				Other items					
Capacity control		Varia	ble	For air-to-air air conditioner: air flow rate, outdoor measured	L _{WA}	4500	m ³ /h		
Sound power level, indoor/outdoor	L _{WA}	72	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 - Vi	a Alfeno Varo, Italy	35 - 25020 A	lfianello (BS) -		

(**) 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: AGHP161PH

SEASONAL SPACE HEATING ENERGY EFFICIENCY CLASS			A++
	Г	55°C	
Rated heat output (average climate conditions)	Prated	13	kW
DECLARED LOAD PROFILE			XL
SEASONAL WATER HEATING ENERGY EFFICIENCY CLASS			Α
	г		
		55°C	
Annual energy consumption (average climate conditions)	Q _{HE}	8161	kWh
Annual electricity consumption for water heating (average climate conditions)	AEC	18/3	kWb
	ALU	1045	KWII
	Г	55°C	
Seasonal space heating energy efficiency (average climate conditions)	η _s	125	%
Water heating energy efficiency (average climate conditions)	η _{wh}	90.9	%
	_		
		55°C	
Rated heat output (colder climate conditions)	Pnominale	11	kW
Rated heat output (warmer climate conditions)	Pnominale	9	kW
	г		
		55°C	
Annual electricity consumption for space heating (colder climate conditions)	Q _{HE}	10540	kWh
Annual electricity consumption for space heating (warmer climate conditions)	Q _{HE}	3072	kWh
Annual electricity consumption for water heating (colder climate conditions)	AEC	2441	kWh
Annual electricity consumption for water heating (warmer climate conditions)	AEC	1760	kWh
(
	Γ	55°C	
Seasonal space heating energy efficiency (colder climate conditions)	η _s	100	%
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	%
	F		
		Outdoor	
Sound power level	L _{WA}	72	dB
Contact information	Argoclim 35 - 2502	na Spa - Via A 20 Alfianello	Alfeno Varo (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.