

Model	AG4HP143PH								
Type of heat numn	⊠ Air-to-wa	☑ Air-to-water heat pump □ Water-to-water heat pump							
Type of heat pump	Brine-to-	water heat pu	מת מת						
Low-temperature heat pump	□ Yes ⊠ No								
Equipped with a supplementary heater	□ Yes ⊠ No								
Heat pump combination heater	🗵 Yes	⊠ Yes 🗆 No							
Climate	🗵 Average	এ Average							
Temperature application	□ Medium	Medium (55°C) 🛛 Low (35°C)							
Applied starndards	N14825 / 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 loa outdoor temperature Tj	ad at indoor ter	mperature 20	°C and	Declared coefficient of performance or p temperature 20 °C and outdoor tempera	rimary energy ture Tj	ratio for part lo	oad at indoor		
Ti = - 7°C	Pdh	11.6	kW	T: 7%0	0001	0.00			
Degradation coefficient	Cdh	0.99	-	ij / C	COPa	2.89	-		
Tj = + 2°C	Pdh	6.7	kW	Ti = + 2°C	COPd	4.50	_		
Degradation coefficient	Cdh	0.98	-		00.4	4.00			
Tj = + 7°C	Pdh	4.5	kW	Tj = + 7°C	COPd	5.82	-		
Degradation coefficient	Cdh	0.97	-	· · · · · · · · · · · · · · · · · · ·					
I] = + 12°C	Pan Cdb	3.4	KVV	Tj = + 12°C	COPd	7.53	-		
Ti = bivalent temperature	Pdh	0.95	- k\//	Ti = hivalent temperature	COPd	2.89			
Ti = operation limit temperature	Pdh	11.0	kW	Ti = operation limit temperature	COPd	2.00	-		
$T_j = -15 \text{ °C} (\text{if TOL} < -20 \text{ °C})$	Pdh	-	kW	$T_j = -15 \degree C (if TOL < -20 \degree C)$	COPd	-	kW		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C		
	Pcych	-	- kW	Cycling interval efficiency	COPcyc	-	-		
Cycling interval capacity for heating		-		Heating water operating limit temperature	WTOL	65	°C		
Power concumption in modes other t	han activo mo	do		Supplementary bester					
Off mode	P	0.025	F/W	Bated heat output	Peup	10	k\\/		
	OFF	0.025	KVV		i sup	1.5	KVV		
Thermostat-off mode	P _{SB}	0.025	KVV			-			
Standby mode	P _{TO}	0.025	KVV	l ype of energy input					
Crankcase heater mode	P _{CK}	0.025	kW						
Other items									
Other Items		variable		Deted oir flow rote, outdoor		E01E	3/1-		
		variable	10	Rated air llow rate, outdoor	-	5015	m²/n		
Sound power level, indoor / outdoor		-/68	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h		
	QHE	5921	KVVII	······					
For heat pump combination heater							1		
Declared load profile		XL		Water heating energy efficiency	η _{wh}	110	%		
Daily electricity consumption	Qelec	7.243	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	1518	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details	ARG	OCLIMA	S.p.A.Vi	a Alfeno Varo, 35, 25020, Al	fianello (BS), Italy	,		



Model	AG4HP143PH								
	Air-to-wa	☑ Air-to-water heat pump							
Type of heat pump	□ Water-to	-water heat pu	imp						
Low-temperature heat nump									
Equipped with a supplementary heater									
Heat nump combination bostor									
Climate		⊔ זפא ⊔ וועט Average IV Colder II Warmer							
Temperature application	□ Medium] Medium (55°C) ⊠ Low (35°C)							
Applied starndards	EN14825/E	N14825 / EN16147							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
	Durted	10		Seasonal space heating energy	- Cymbol	450			
Rated heat output	Prated	12	KVV	efficiency	η _s	158	%		
Declared capacity for heating for part loa outdoor temperature Tj	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or p temperature 20 °C and outdoor temperat	rimary energy ture Tj	ratio for part lo	oad at indoor		
Tj = - 7°C	Pdh	7.0	kW	Ti = _ 7°C	COPd	3.40	_		
Degradation coefficient	Cdh	0.99	-		COFU	5.40	-		
$Tj = + 2^{\circ}C$	Pdh	4.2	kW	Tj = + 2°C	COPd	5.04	-		
Degradation coefficient	Cdh	0.97	- k\\/	·					
Degradation coefficient	Cdh	0.95	- KVV	Tj = + 7°C	COPd	6.06	-		
Tj = + 12°C	Pdh	3.2	kW	Ti - + 10°C	0004	0.47			
Degradation coefficient	Cdh	0.95	-	IJ = + 12 C	COPa	0.17	-		
Tj = bivalent temperature	Pdh	9.7	kW	Tj = bivalent temperature	COPd	2.38	-		
Tj = operation limit temperature	Pdh	7.6	kW	Tj = operation limit temperature	COPd	1.79	-		
I = -15 °C (If IOL < -20 °C) Bivalent temperature	Pan Thiy	9.7	κνν °C	[1] = -15 °C (If IOL < -20 °C)		2.38	κνν °C		
	TDIV	-15	0		TOL	-22	0		
	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
Cycling Interval capacity for heating				Heating water operating limit	MEOL	0.5	*^		
				temperature	WIOL	65	C		
Power concumption in modes other t	han active me	da		Supplementary bester					
	Porr	0.025	kW	Rated beat output	Psup	44	kW.		
Thermostat off mode	P	0.025	kW		1 Sup	7.7	RVV		
Standby mode		0.025	KVV k\//	Type of operaty input		Electric			
	I TO	0.025	KVV			Electric			
Crankcase heater mode	Рск	0.025	KVV	JI					
Other items									
Capacity control		variable		Rated air flow rate, outdoor	-	5015	m ³ /h		
Sound power level, indoor / outdoor	Lwa	-/68	dB	· · · · · · · · · · · · · · · · · · ·					
	-	,		Rated brine or water flow rate, outdoor	-	-	m³/h		
Annual energy consumption	Q _{HE}	7293	kWh						
		l		• •		-			
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	η _{wh}	87	%		
Daily electricity consumption	Qelec	9.164	kWh	Daily fuel consumption	Qfuel	-	kWh		
Annual electricity consumption	AEC	1924	kWh	Annual fuel consumption	AFC	-	GJ		
	1								
Contact dataila			6 n A \/:	a Alfana Vara 25 25020 Al	fianalla	DC) Hal	,		
	ARC		Э.р. А.VI	a Alleliu Valu, 35, 25020, Al	maneno (DO), Italy			
	I								



Model	AG4HP143PH									
Type of heat nump	 ☑ Air-to-water heat pump □ Water-to-water heat pump 									
Type of heat pump	Brine-to-	water heat pur	mp							
Low-temperature heat pump	□ Yes ⊠ No									
Equipped with a supplementary heater	□ Yes ⊠ No									
Heat pump combination heater	🗵 Yes	□ No								
Climate	Average	□ Average								
Temperature application	□ Medium] Medium (55°C)								
Applied starndards	EN14825 / E	N16147								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output	Prated	14	kW	Seasonal space heating energy efficiency	η _s	240	%			
Declared capacity for heating for part loa outdoor temperature Tj	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or p temperature 20 °C and outdoor temperat	rimary energy ture Tj	ratio for part lo	oad at indoor			
Tj = - 7°C	Pdh	-	kW	Ti _ 7%C	0004					
Degradation coefficient	Cdh	-	-		COPa	-	-			
Tj = + 2°C	Pdh	13.7	kW	$Ti = + 2^{\circ}C$	COPd	2.90	-			
Degradation coefficient	Cdh	0.99	-	1		2.00				
Tj = + 7°C	Pdh	8.5	kW	Tj = + 7°C	COPd	5.36	-			
Degradation coefficient	Cdh	0.98	-	ll						
I] = + 12°C	Pan Cdb	3.7	KVV	Tj = + 12°C	COPd	7.86	-			
Ti = bivalent temperature	Pdh	0.95	- kW	Ti = hivalent temperature	COPd	2 90				
Ti = operation limit temperature	Pdh	13.7	kW	Ti = operation limit temperature	COPd	2.90	-			
$T_j = -15 \text{ °C} (\text{if TOL} < -20 \text{ °C})$	Pdh	-	kW	$T_j = -15 \degree C (if TOL < -20 \degree C)$	COPd	-	kW			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	2	°C			
	Davah	Pcych - kW Cycling interval efficiency Heating water operating limit temperature	COPcyc	-	-					
Cycling interval capacity for heating	reyen		NVV	Heating water operating limit temperature	WTOL	65	°C			
Power concumption in modes other t	han activo mo	do		Supplementary bester						
Off mode	P	0.025	F/W	Rated heat output	Peup	0.3	K/M/			
	I OFF	0.025	KVV		i sup	0.5	KVV			
Thermostat-oll mode	P _{SB}	0.025	KVV			-				
Standby mode	P _{TO}	0.025	KVV	I ype of energy input						
Crankcase heater mode	P _{CK}	0.025	kW							
Others Hanne										
		voriable		Detect sin flavor note southlase		5045				
		variable	10	Rated air llow rate, outdoor	-	5015	m²/n			
Sound power level, indoor / outdoor		-/68	dB	Rated brine or water flow rate, outdoor	-	-	m³/h			
Annual energy consumption	QHE	2995	KVVII							
For heat pump combination heater										
Declared load profile		XL		Water heating energy efficiency	η _{wh}	113	%			
Daily electricity consumption	Qelec	7.036	kWh	Daily fuel consumption	Qfuel	-	kWh			
Annual electricity consumption	AEC	1475	kWh	Annual fuel consumption	AFC	-	GJ			
	400		0 4 1/		fine all a		_			
Contact details	ARG		3.p.A.VI	a Alleno varo, 35, 25020, Al	manello (ອວ), italy				



Model	AG4HP143PH								
Type of heat pump	 ☑ Air-to-water heat pump □ Water-to-water heat pump 								
	□ Brine-to-	water heat pur	np						
Low-temperature heat pump	Yes No								
Equipped with a supplementary heater	□ Yes	Yes No							
Heat pump combination heater	🗵 Yes	🗆 No							
Climate	⊠ Average	I Average							
Temperature application	Medium	J Mealum (55°C) □ Low (35°C)							
Applied starndards	EN14825/E	N16147							
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit		
Rated heat output	Prated	13	kW	Seasonal space heating energy efficiency	η_s	138	%		
Declared capacity for heating for part loa outdoor temperature Tj	ad at indoor te	mperature 20	°C and	AG4HP143PH r □ Warmer 35°C) Item Symbol Value Unit Seasonal space heating energy ns 138 % Declared coefficient of performance or primary energy ratio for part load at inde temperature 20 °C and outdoor temperature Tj Tj = - 7°C COPd 2.21 - Tj = - 7°C COPd 3.66 - - Tj = + 7°C COPd 4.30 - Tj = + 7°C COPd 4.30 - - Tj = + 7°C COPd 4.30 - Tj = + 7°C COPd 2.21 -		oad at indoor			
Tj = - 7°C	Pdh	11.8	kW	$Ti = -7^{\circ}C$	COPd	2 21	_		
Degradation coefficient	Cdh	1.00	-		0014	2.21			
$Tj = + 2^{\circ}C$	Pdh	6.9	kW	Tj = + 2°C	COPd	3.66	-		
Degradation coefficient	Cdh	0.99	-	·					
$J = + 7^{\circ}C$	Pdh	4.4	KVV	Tj = + 7°C	COPd	4.30	-		
	- Curi Edh	0.90	-						
Degradation coefficient	Cdh	0.96	-	Tj = + 12°C	COPd	4.93	-		
Ti = bivalent temperature	Pdh	11.8	kW	Ti = bivalent temperature	COPd	2.21	-		
Tj = operation limit temperature	Pdh	11.6	kW	Tj = operation limit temperature	COPd	2.02	-		
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	-10	°C		
Cycling interval conscitutor besting	Poveb	rch - kW Cycling interval efficiency Heating water operating limit temperature	COPcyc	-	-				
Cycling interval capacity for nearing	i oyon			Heating water operating limit temperature	WTOL	65	°C		
Power consumption in modes other than active mode				Supplementary heater					
Off mode	POFF	0.025	kW	Rated heat output	Psup	1.4	kW		
Thermostat-off mode	Pen	0.025	kW	· · · · · · · · · · · · · · · · · · ·					
Standby mode	P	0.025	kW/	Type of energy input					
		0.025				LIECUIC			
Crankcase heater mode	Рск	0.025	KVV	II					
Other items									
Canacity control		variable		Rated air flow rate, outdoor	_	5015	m ³ /h		
Sound nower level indeer (outdoor	1		dP		-	3013	111 /11		
Annual energy consumption		7769	ub kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h		
, and a chorgy concerning for		1100							
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	η_{wh}	110	%		
Daily electricity consumption	Qelec	7.243	kWh	Daily fuel consumption	Qfuel	-	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									



Model	AG4HP143PH								
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] Average							
Temperature application	Medium] Medium (55°C)							
Applied starndards	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 loa outdoor temperature Tj	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or p temperature 20 °C and outdoor temperat	rimary energy ture Tj	ratio for part lo	oad at indoor		
Tj = - 7°C	Pdh	7.8	kW	Ti = - 7°C	COPd	2 55	_		
Degradation coefficient	Cdh	0.99	-		0014	2.00			
$Tj = + 2^{\circ}C$	Pdh	4.4	kW	Tj = + 2°C	COPd	3.71	-		
Degradation coefficient	Cdh	0.98	-	· · · · · · · · · · · · · · · · · · ·					
$I_J = + 7^{\circ}C$	Pdh	2.9	KVV	Tj = + 7°C	COPd	4.61	-		
	Ddh	0.90	-						
Degradation coefficient	Cdh	0.96	-	Tj = + 12°C	COPd	5.03	-		
Ti = bivalent temperature	Pdh	10.4	kW	Tj = bivalent temperature	COPd	1.82	-		
Tj = operation limit temperature	Pdh	6.7	kW	Tj = operation limit temperature	COPd	1.06	-		
T j = – 15 °C (if TOL < – 20 °C)	Pdh	10.4	kW	T j = - 15 °C (if TOL < - 20 °C)	COPd	1.82	kW		
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-22	°C		
Cycling interval canacity for heating	Pcych	_	Cycling interval efficiency	COPcyc	-	-			
	,			Heating water operating limit temperature	WTOL	65	°C		
Power consumption in modes other th	han active mo	ode		Supplementary heater					
Off mode	POFF	0.025	kW	Rated heat output	Psup	6.3	kW		
Thermostat-off mode	Per	0.025	kW/		. oup	0.0			
Standhy mode		0.025	KVV k\A/	Turpo of opportuninguit		Flootrio			
Standby mode	F _{TO}	0.025	KVV	Type of energy input		Electric			
Crankcase heater mode	Рск	0.025	kW						
Othern itemse									
Other Items		variable		Dated air flow rate, outdoor		E01E			
		variable	10	Rated air llow rate, outdoor	-	5015	m²/n		
Sound power level, indoor / outdoor		-/68	dB kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h		
	GHE	10070	RWII						
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	η _{wh}	87	%		
Daily electricity consumption	Qelec	9.164	kWh	Daily fuel consumption	Qfuel	-	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									



Model	AG4HP143PH								
Type of heat pump	Air-to-water heat pump Water-to-water heat pump								
	Brine-to-	water heat pur	np						
Low-temperature heat pump	LI Yes 🗵 No								
Equipped with a supplementary heater	Yes No								
Heat pump combination heater	⊠ Yes	🗆 No							
Climate	□ Average	J Average							
l emperature application		□ Medium (55°C)							
Applied starndards	EN14825 / E	N16147							
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit		
Rated heat output	Prated	15	kW	Seasonal space heating energy efficiency	η_s	159	%		
Declared capacity for heating for part loa outdoor temperature Tj	d at indoor ter	mperature 20	°C and	Declared coefficient of performance or p temperature 20 °C and outdoor temperat	rimary energy ture Tj	ratio for part lo	oad at indoor		
Tj = - 7°C	Pdh	-	kW	$Ti = 7^{\circ}C$	COP4	_	_		
Degradation coefficient	Cdh	-	-			-	-		
$Tj = + 2^{\circ}C$	Pdh	14.6	kW	Tj = + 2°C	COPd	2.31	-		
Degradation coefficient	Cdh	1.00	-			-			
$J = + 7^{\circ}C$	Pdh	8.8	KVV	Tj = + 7°C	COPd	3.29	-		
$T_i = \pm 12^{\circ}C$	Ddh	0.99	-						
Degradation coefficient	Cdh	0.97	-	Tj = + 12°C	COPd	5.47	-		
Ti = bivalent temperature	Pdh	14.6	kW	Ti = bivalent temperature	COPd	2.31	-		
Tj = operation limit temperature	Pdh	14.6	kW	Tj = operation limit temperature	COPd	2.31	-		
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	2	°C		
Cycling interval conscitutor besting	Poveh	Pcych - kW Cycling interval efficiency Heating water operating limit temperature	COPcyc	-	-				
oyoning interval capacity for heating	i oyon			Heating water operating limit temperature	WTOL	65	°C		
Power consumption in modes other th	nan active mo	ode		Supplementary heater					
Off mode	Porr	0.025	kW	Bated heat output	Psup	0	kW		
Thermostat off mode	P	0.025	kW/		1 oup	ů			
Chandley made	I SB	0.025	KVV			E la atria			
Standby mode	P _{TO}	0.025	KVV	i ype of energy input		Electric			
Crankcase heater mode	Рск	0.025	kW						
Other items									
		voriable		Detect sin flavo note so tida an		5045			
		variable	10	Rated air llow rate, outdoor	-	5015	m²/n		
Sound power level, indoor / outdoor		-/68	dB	Rated brine or water flow rate, outdoor beat exchanger	-	-	m³/h		
Annual energy consumption	QHE	4801	KVVII						
For heat pump combination heater									
Declared load profile		XL		Water heating energy efficiency	η_{wh}	113	%		
Daily electricity consumption	Qelec	7.036	kWh	Daily fuel consumption	Qfuel	-	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									