

Model				AG4HP123PH			
		ater heat pump					
Type of heat pump		-water heat pu water heat pui					
Low-temperature heat pump	☐ Yes	water neat pur ⊠ No	пр				
Equipped with a supplementary heater	□ Yes	⊠ No					
Heat pump combination heater	⊠ Yes	□ No					
Climate			□ Colder	□ Warmer			
Temperature application	☐ Medium EN14825 / E	,		°C)			
Applied starndards		N 10 147					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	η_{s}	180	%
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		ratio for part lo	oad at indoor
Tj = - 7°C	Pdh	10.8	kW	Ti = - 7°C	COPd	3.01	_
Degradation coefficient	Cdh	0.99	-	1, 1 0	COFU	5.01	-
Tj = + 2°C	Pdh	6.7	kW	Tj = + 2°C	COPd	4.50	-
Degradation coefficient Tj = + 7°C	Cdh Pdh	0.98 4.5	- kW	 			
Degradation coefficient	Cdh	0.97	KVV	Tj = + 7°C	COPd	5.82	-
Tj = + 12°C	Pdh	3.3	kW	T	0001	7.45	
Degradation coefficient	Cdh	0.94	-	Tj = + 12°C	COPd	7.45	-
Tj = bivalent temperature	Pdh	10.8	kW	Tj = bivalent temperature	COPd	3.01	-
Tj = operation limit temperature	Pdh	9.9	kW	Tj = operation limit temperature	COPd	2.51	-
T j = - 15 °C (if TOL < - 20 °C)	Pdh	- -7	kW °C	T j = - 15 °C (if TOL < - 20 °C)	COPd	-	°C
Bivalent temperature	Tbiv	-/		Operation limit temperature	TOL	-10	C
		-		Cycling interval efficiency	COPcyc	-	-
Cycling interval capacity for heating	Pcych	_	- kW	Heating water operating limit	WTOL	65	°C
				temperature		00	<u> </u>
Power consumption in modes other th	nan active mo	ode		Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output	Psup	2.1	kW
Thermostat-off mode	P _{SB}	0.025	kW	1			
Standby mode	P _{TO}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0.025	kW	Type of energy input		Liootiio	
oralineass risater mass	· CK	0.020	****				
Other items							
Capacity control		variable		Rated air flow rate, outdoor	-	5015	m³/h
Sound power level, indoor / outdoor	L_{WA}	-/68	dB	Rated brine or water flow rate, outdoor			
Annual energy consumption	Q_{HE}	5517	kWh	heat exchanger	-	-	m³/h
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
	AEC		kWh		AFC		
Annual electricity consumption	AEC	1518	KVVII	Annual fuel consumption	AFC	-	GJ
Contact details	ARG	OCLIMA	S.p.A.Via	a Alfeno Varo, 35, 25020, Al	fianello (BS), Italy	,
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Model				AG4HP123PH			
		ater heat pump					
Type of heat pump		-water heat pu					
Low-temperature heat pump	☐ Yes	water heat pu	пр				
Equipped with a supplementary heater	□ Yes	⊠ No					
Heat pump combination heater	⊠ Yes	□ No					
Climate	□ Average	(5500)	⊠ Colder	□ Warmer			
Temperature application	☐ Medium	,		°C)			
Applied starndards	EN14825 / E	N 16147					
Item	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output	Prated	11	kW	efficiency	η_{s}	159	%
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 temperature 20 °C and outdoor temperature.		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	-	II ., , ,		0.40	
Tj = + 2°C	Pdh	4.2	kW	Tj = + 2°C	COPd	5.04	-
Degradation coefficient	Cdh	0.97	-	 			
Tj = + 7°C Degradation coefficient	Pdh Cdh	3.0 0.95	kW	Tj = + 7°C	COPd	6.04	-
Tj = + 12°C	Pdh	3.3	kW	1			
Degradation coefficient	Cdh	0.95	-	Tj = + 12°C	COPd	7.23	-
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	2.42	-
Tj = operation limit temperature	Pdh	7.6	kW	Tj = operation limit temperature	COPd	1.79	-
T j = -15 °C (if TOL < -20 °C)	Pdh	9.0	kW	T j = - 15 °C (if TOL < - 20 °C)	COPd	2.42	kW
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcych	_	kW	Cycling interval efficiency	COPcyc	-	-
	. eye		KVV	Heating water operating limit temperature	WTOL	65	°C
Dower consumption in modes other t	han aatiya ma	do		Supplementary beater			
Power consumption in modes other to Off mode		0.025	kW	Supplementary heater Rated heat output	Psup	3.4	kW
	P _{OFF}		ļ	Rated fleat output	Psup	3.4	KVV
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}	0.025	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoor	-	5015	m³/h
Sound power level, indoor / outdoor	L _{WA}	-/68	dB	1			
Annual energy consumption	Q_{HE}	6685	kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
For heat pump combination heater	•			15			
Declared load profile		XL	1	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
	ADC		O A \/:	- Alfana Vana OF OFOOO Al	£ :11 (DO)	
Contact details	ARG	OCLIMA	S.p.A.Vi	a Alfeno Varo, 35, 25020, Al	τιanello (മട), Italy	



Model	AG4HP123PH							
		ater heat pump						
Type of heat pump		-water heat pu	•					
1 1		water heat pui	mp					
Low-temperature heat pump	□ Yes	⊠ No						
Equipped with a supplementary heater	□ Yes	⊠ No						
Heat pump combination heater	⊠ Yes	□ No						
Climate	☐ Average	(5500)	□ Colder	⊠ Warmer				
Temperature application	☐ Medium	,		S°C)				
Applied starndards	EN14825 / E	N 10147						
Item	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Unit	
Rated heat output	Prated	12	kW	efficiency	η_{s}	244	%	
Declared capacity for heating for part loa	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or p	rimary energy	ratio for part lo	oad at indoor	
outdoor temperature Tj				temperature 20 °C and outdoor temperat				
Tj = - 7°C	Pdh	-	kW	Ti = - 7°C	COPd	_		
Degradation coefficient	Cdh	-	-	1) = - 7 C	COPa	-	-	
Tj = + 2°C	Pdh	11.7	kW	Tj = + 2°C	COPd	3.43	_	
Degradation coefficient	Cdh	0.99	-	11.7		00		
Tj = + 7°C	Pdh	7.5	kW	- T j = + 7°C	COPd	5.41	-	
Degradation coefficient Ti = + 12°C	Cdh Pdh	0.98 3.5	- kW					
Degradation coefficient	Cdh	0.94	- KVV	Tj = + 12°C	COPd	7.85	-	
Tj = bivalent temperature	Pdh	11.7	kW	Tj = bivalent temperature	COPd	3.43		
Tj = operation limit temperature	Pdh	11.7	kW	Tj = operation limit temperature	COPd	3.43	-	
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 efficiency	COPcyc	-	-	
Cycling interval capacity for heating	Pcych		kW	Heating water operating limit				
				temperature	WTOL	65	°C	
Power consumption in modes other than active mode Supplementary heater								
			1.007	Supplementary heater	Davis	0.0	1-10/	
Off mode	P _{OFF}	0.025	kW	Rated heat output	Psup	0.3	kW	
Thermostat-off mode	P _{SB}	0.025	kW	41				
Standby mode	P _{TO}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	P _{CK}	0.025	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoor	-	5015	m³/h	
Sound power level, indoor / outdoor	L _{WA}	-/68	dB	But their count of the country of				
Annual energy consumption	Q _{HE}	2531	kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h	
Annual chergy consumption	QHE.	2001	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	
annual ordenion, demonstration	7120	16		, and a consumption	7 0		- 50	
Contact details	ARG	OCLIMA	S.p.A.Vi	a Alfeno Varo, 35, 25020, Al	fianello (BS), Italy	, I	
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Model				AG4HP123PH			
in oddi		ater heat pump)	7.0 120			
Type of heat pump		-water heat pu					
	☐ Brine-to-	water heat pur	mp				
Low-temperature heat pump	☐ Yes	⊠ No					
Equipped with a supplementary heater	□ Yes	⊠ No					
Heat pump combination heater		□ No					
Climate			☐ Colder	□ Warmer			
Temperature application			☐ Low (35°	°C)			
Applied starndards	EN14825 / E	N16147					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	η_{s}	137	%
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		ratio for part lo	oad at indoor
Tj = - 7°C	Pdh	10.5	kW	Tj = - 7°C	COPd	2.02	-
Degradation coefficient	Cdh	1.00	-	[]·			
Tj = + 2°C Degradation coefficient	Pdh Cdh	6.9 0.99	kW	Tj = + 2°C	COPd	3.66	-
Ti = + 7°C	Pdh	4.4	kW	T 700	005:	4.00	
Degradation coefficient	Cdh	0.98	-	Tj = + 7°C	COPd	4.30	-
Tj = + 12°C	Pdh	3.0	kW	Tj = + 12°C	COPd	5.12	_
Degradation coefficient	Cdh	0.96	-	·		_	-
Tj = bivalent temperature	Pdh	10.5	kW	Tj = bivalent temperature	COPd	2.02	-
Tj = operation limit temperature	Pdh	11.5	kW	Tj = operation limit temperature	COPd	2.02	-
T j = - 15 °C (if TOL < - 20 °C) Bivalent temperature	Pdh	- -7	°C	T j = - 15 °C (if TOL < - 20 °C)	COPd	- -10	kW °C
bivalent temperature	Tbiv	-/		Operation limit temperature	TOL	-10	C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
				Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other to	han active mo	de		Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output	Psup	0.4	kW
Thermostat-off mode	P _{SB}	0.025	kW	rtatoa moat oatpat	. 546	· · ·	
Standby mode	P _{TO}	0.025	kW	Type of energy input		Electric	
•			kW	Type or energy input		Electric	
Crankcase heater mode	P _{CK}	0.025	KVV	<u> </u>			
Other items							
Capacity control		variable		Rated air flow rate, outdoor	-	5015	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	-/68	dB	rtated all liest rate; eatage.		00.0	,
Annual energy consumption	Q _{HE}	6990	kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
				Ш			
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 datails	۸۵۵	CL IMA	S n A Vie	a Alfeno Varo, 35, 25020, Al	fianelle (RS) Italy	,
Contact details	ARG	JOCLINA	S.p.A.VI	a Allelio Valo, 33, 23020, Al	naneno (DO), Italy	



Model				AG4HP123PH			
		ater heat pump					
Type of heat pump		-water heat pu water heat pui	•				
Low-temperature heat pump	☐ Yes	water neat pur ⊠ No	пр				
Equipped with a supplementary heater	□ Yes	⊠ No					
Heat pump combination heater	⊠ Yes	□ No					
Climate	☐ Average	(FF0O)	⊠ Colder	□ Warmer			
Temperature application		,	□ Low (35	°C)			
Applied starndards							
Item	Symbol	Value	Unit	Item Seasonal space heating energy	Symbol	Value	Unit
Rated heat output	Prated	12	kW	efficiency	η_{s}	117	%
Declared capacity for heating for part loa outdoor temperature Tj	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or performance or performance to perform temperate 20 °C and outdoor temperate temperate temperate for the performance or performance o		ratio for part lo	oad at indoor
Tj = - 7°C	Pdh	7.8	kW	Tj = - 7°C	COPd	2.55	_
Degradation coefficient	Cdh	0.99	-	II ., , , ,	551 u	2.00	
Tj = + 2°C	Pdh	4.4	kW	Tj = + 2°C	COPd	3.71	-
Degradation coefficient Tj = + 7°C	Cdh Pdh	0.98 2.9	- kW	∥ -			
Degradation coefficient	Cdh	0.96	-	Tj = + 7°C	COPd	4.61	-
Tj = + 12°C	Pdh	3.3	kW	T: - : 40°C	COPd	5.24	
Degradation coefficient	Cdh	0.96	-	Tj = + 12°C		-	-
Tj = bivalent temperature	Pdh	9.6	kW	Tj = bivalent temperature	COPd	1.79	-
Tj = operation limit temperature	Pdh	6.7	kW	Tj = operation limit temperature	COPd	1.06	-
T j = - 15 °C (if TOL < - 20 °C)	Pdh	9.6	kW	T j = - 15 °C (if TOL < - 20 °C)	COPd	1.79	kW
Bivalent temperature Cycling interval capacity for heating	Tbiv	-15 -	°C	Operation limit temperature	TOL	-22	°C
	Pcych		kW	Cycling interval efficiency	COPcyc	-	-
			NVV	Heating water operating limit temperature	WTOL	65	°C
			•				
Power consumption in modes other to				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output	Psup	5.3	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}	0.025	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoor	-	5015	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	-/68	dB				,
Annual energy consumption	Q _{HE}	9548	kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
For heat pump combination heater				, .			
Declared load profile		XL	1	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				AG4HP123PH			
Wodel		ater heat pump)	A04111 1201 11			
Type of heat pump		-water heat pu					
, ,	☐ 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		□ Colder	Warmer			
Temperature application	Medium	, ,	☐ Low (35°	CC)			
Applied starndards	EN14825 / E	N16147					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	η_{s}	169	%
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		ratio for part lo	oad at indoor
Tj = - 7°C	Pdh	-	kW	Tj = - 7°C	COPd	-	-
Degradation coefficient	Cdh	- 10.0	- 1/1/4/	[-			
Tj = + 2°C Degradation coefficient	Pdh Cdh	12.3 0.99	kW	Tj = + 2°C	COPd	2.51	-
Ti = + 7°C	Pdh	7.9	kW		007:	0	
Degradation coefficient	Cdh	0.99	-	Tj = + 7°C	COPd	3.50	-
Tj = + 12°C	Pdh	3.6	kW	Ti = 1 12°C	COPd	5.80	
Degradation coefficient	Cdh	0.96	-	Tj = + 12°C	COPa	5.60	-
Tj = bivalent temperature	Pdh	12.3	kW	Tj = bivalent temperature	COPd	2.51	-
Tj = operation limit temperature	Pdh	12.3	kW	Tj = operation limit temperature	COPd	2.51	-
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 capacity for heating	Pcych	_	kW	Cycling interval efficiency	COPcyc	-	-
				Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other to	han active me	ndo.		Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output	Psup	0	kW
Thermostat-off mode	P _{SB}		kW	reace near output	1 Sup	Ů	KVV
		0.025				EL M.	
Standby mode	P _{TO}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0.025	kW	<u> </u>			
Other items							
Capacity control		variable		Rated air flow rate, outdoor	_	5015	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	-/68	dB	Trated all flow rate, edited:		0010	/
Annual energy consumption	Q _{HE}	3822	kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
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	ARG	OCLIMA	S.p.A.Via	a Alfeno Varo, 35, 25020, Al	fianello (BS), Italy	,
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