

Model	1	AG4HP141PH							
		ater heat pum							
Type of heat pump	□ Water-to-water heat pump								
		water heat pu	mp						
_ow-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	()	区 Low (35	ΰ°C)					
Applied starndards	EN14825 / E	N16147							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	13	kW	Seasonal space heating energy efficiency	η_s	185	%		
Declared capacity for heating for part lo butdoor 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 indoo		
ſj = - 7°C	Pdh	11.5	kW	Ti = - 7°C	COPd	2.71	-		
Degradation coefficient	Cdh	0.99	-			2.11	-		
$\Gamma j = + 2^{\circ}C$	Pdh	7.1	kW	Tj = + 2°C	COPd	4.39	-		
Degradation coefficient	Cdh	0.98	-	<u>ال</u>					
īj = + 7°C Degradation coefficient	Pdh Cdh	4.4 0.96	kW	Tj = + 7°C	COPd	6.89	-		
Fi = + 12°C	Pdh	3.5	- kW						
Degradation coefficient	Cdh	0.93	-	Tj = + 12°C	COPd	10.30	-		
j = bivalent temperature	Pdh	11.5	kW	Tj = bivalent temperature	COPd	2.71	-		
j = operation limit temperature	Pdh	11.5	kW	Tj = operation limit temperature	COPd	2.38	-		
j = − 15 °C (if TOL < − 20 °C)	Pdh	-	kW	T j = – 15 °C (if TOL < – 20 °C)	COPd	-	kW		
livalent temperature	Tbiv	-7	°C	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	than active me	do		Supplementary heater					
Off mode	P _{OFF}	0.025	kW	Rated heat output	Psup	1.5	kW		
hermostat-off mode	P _{SB}	0.025	kW		i sup	1.0			
						E la atria			
Standby mode	P _{TO}	0.025	kW	Type of energy input		Electric			
Crankcase heater mode	Р _{ск}	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	Dated bring or water flow anter and the					
Annual energy consumption	Q _{HE}	5682	kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h		
	1	l	1						
For heat pump combination heater Declared load profile		XL		Water besting one way officiancy	n	110	%		
•	+ -			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	ARC		S.n.A.Vi	a Alfeno Varo, 35, 25020, Al	fianello (BS), Italy	,		
				a / illollo / tal 0, 00, 20020, / il		, j			



□ Water-to	ater heat pump -water heat pu water heat pur ⊠ No		AG4HP141PH								
 Brine-to- Yes Yes Yes Yes 	water heat pur	ımp									
□ Yes□ Yes⊠ Yes			Water-to-water heat pump								
□ Yes ⊠ Yes	🗵 No	mp									
🗵 Yes											
	🗵 No										
Average	🗆 No										
		⊠ Colder	Warmer								
□ Medium	()	🗵 Low (35	ΰ°C)								
EN14825 / E	N16147										
Symbol	Value	Unit	Item	Symbol	Value	Unit					
Prated	12	kW	Seasonal space heating energy efficiency	η _s	184	%					
ad at indoor tei	mperature 20	°C and		rimary energy	ratio for part lo	oad at indo					
			temperature 20 °C and outdoor temperat	ture Tj							
Pdh	6.9	kW	Ti - 7°C	CORd	2 00						
Cdh	0.99	-		COPu	3.00						
Pdh	4.5	kW	Ti = + 2°C	COPd	5.93	-					
Cdh	0.97	-		0014	0.00						
	2.7		Tj = + 7°C	COPd	7.20	-					
			,		-						
			Tj = + 12°C	COPd	8.98	-					
				0051	0.70						
						-					
						- kW					
						°C					
1 DIV	-13	U		TOL	-22	0					
		kW	Cycling interval efficiency	COPcyc	-	-					
Pcych	-		Heating water operating limit								
				WTOL	65	°C					
					l .						
•	1										
			Rated heat output	Psup	4.1	kW					
	0.025	kW									
P _{TO}	0.025	kW	Type of energy input		Electric						
P _{CK}	0.025	kW									
			- L								
	variable		Rated air flow rate, outdoor	-	5015	m³/h					
L _{WA}	-/68	dB	Rated brine or water flow rate, outdoor								
	6257	kWh	heat exchanger	-	-	m³/h					
Q _{HE}	<u> </u>										
Q _{HE}											
Q _{HE}					- I	~ /					
Q _{HE}	XL		Water heating energy efficiency	η _{wh}	87	%					
Q _{HE} Qelec	XL 9.164	kWh	Water heating energy efficiency Daily fuel consumption	η _{wh} Qfuel	87	% kWh					
	Prated d at indoor ter Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh P	Prated 12 Id at indoor temperature 20 Pdh 6.9 Cdh 0.99 Pdh 4.5 Cdh 0.97 Pdh 2.7 Cdh 0.93 Pdh 3.2 Cdh 0.93 Pdh 9.7 Pck 0.025 P _{OFF} 0.025 P _{CK} 0.025 Variable Variable	Prated 12 kW d at indoor temperature 20 °C and Pdh 6.9 kW Cdh 0.99 - Pdh 4.5 kW Cdh 0.99 - Pdh 4.5 kW Cdh 0.99 - Pdh 4.5 kW Cdh 0.93 - Pdh 3.2 kW Cdh 0.93 - Pdh 9.7 kW Pdh 9.7 kW Note the the the the the the the the the t	Prated12kWSeasonal space heating energy efficiencyd at indoor temperature 20 °C andDeclared coefficient of performance or p temperature 20 °C and outdoor temperaPdh6.9KWCdh0.99-Pdh4.5KWCdh0.97-Pdh2.7kWCdh0.93-The deter is the system of	Prated12kWSeasonal space heating energy efficiency η_s d at indoor temperature 20 °C andDeclared coefficient of performance or primary energy temperature 20 °C and outdoor temperature TjPdh6.9KWCdh0.99-Pdh4.5KWCdh0.97-Pdh2.7KWCdh0.93-Pdh3.2KWCdh0.93-Pdh3.2KWCdh0.93-Pdh9.7KWPdh7.9KWPdh9.7KWPdh9.7KWPdh9.7KWPdh9.7KWPoh-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych-KWPoych<	Prated12kWSeasonal space heating energy efficiency η_s 184d at indoor temperature 20 °C andDeclared coefficient of performance or primary energy ratio for part to temperature 20 °C and outdoor temperature TjDeclared coefficient of performance or primary energy ratio for part to temperature 20 °C and outdoor temperature TjPdh6.9kWCdh0.999-Pdh4.5kWCdh0.997-Pdh2.7kWCdh0.93-Pdh3.2kWCdh0.93-Pdh9.7kWPdh9.7kWTj= peration limit temperatureCOPdPdh9.7kWPdh9.7kWTj= operation limit temperatureCOPdPdh9.7kWTj= 15 °C (if TOL < - 20 °C)					



Model				AG4HP141PH					
		ater heat pump							
ype of heat pump	Water-to-water heat pump								
		water heat pu	mp						
_ow-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	5°C)					
Applied starndards	EN14825 / E	N16147							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	14	kW	Seasonal space heating energy efficiency	η_s	268	%		
Declared capacity for heating for part lo	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or p	rimary energy	ratio for part lo	oad at indo		
outdoor temperature Tj				temperature 20 °C and outdoor temperat					
Гј = - 7°С	Pdh	-	kW	– Tj = - 7°C	COPd	-	-		
Degradation coefficient	Cdh	-	-						
j = + 2°C	Pdh	14.0	kW	– Tj = + 2°C	COPd	3.38	-		
Degradation coefficient	Cdh	0.99	-						
j = + 7°C	Pdh	8.4	kW	– Tj = + 7°C	COPd	5.57	-		
Degradation coefficient	Cdh	0.98	- kW	-					
⁻j = + 12°C Degradation coefficient	Pdh Cdh	3.8 0.94	KVV -	– Tj = + 12°C	COPd	9.32	-		
j = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3.38			
i = operation limit temperature	Pdh	14.0	kW	Tj = operation limit temperature	COPd	3.38			
j = -15 °C (if TOL < $-20 $ °C)	Pdh	-	kW	T j = $-15 \degree$ C (if TOL < $-20 \degree$ C)	COPd	-	kW		
Sivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	2	°C		
Bitaloni temperatare						_			
				Cycling interval efficiency	COPcyc	-	-		
Cycling interval capacity for heating	Pcych	-	- kW	Heating water operating limit					
				temperature	WTOL	65	°C		
	4								
Power consumption in modes other Off mode		1	100/	Supplementary heater	Davia	0	1.0.07		
	P _{OFF}	0.025	kW	Rated heat output	Psup	0	kW		
Thermostat-off mode	P _{SB}	0.025	kW	11					
Standby mode	P _{TO}	0.025	kW	Type of energy input		Electric			
Crankcase heater mode	P _{CK}	0.025	kW						
		•							
Other items	1						2		
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			3		
Annual energy consumption	Q _{HE}	2755	kWh	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	GOCLIMA	S.p.A.Vi	a Alfeno Varo. 35. 25020. Al	fianello (BS), Italv	,		
Contact details	ARG	GOCLIMA	S.p.A.Vi	a Alfeno Varo, 35, 25020, Al	fianello (BS), Italy	,		



Model		AG4HP141PH								
Type of heat pump	Water-to-water heat pump Brine-to-water heat pump									
			mp							
ow-temperature heat pump	□ Yes	🗵 No								
Equipped with a supplementary heater	□ Yes	🗵 No								
leat pump combination heater	🗵 Yes	□ No								
Climate	⊠ Average		Colder	□ Warmer						
Temperature application	Medium		Low (35)	°C)						
Applied starndards	EN14825 / E	N16147								
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output	Prated	13	kW	Seasonal space heating energy efficiency	η _s	145	%			
Declared capacity for heating for part lo	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or p	rimary energy	ratio for part lo	bad at indo			
outdoor temperature Tj		'		temperature 20 °C and outdoor tempera	ture Tj	•				
Гј = - 7°С	Pdh	11.8	kW	T - 70	0004	0.40				
Degradation coefficient	Cdh	1.00	-	Tj = - 7°C	COPd	2.10	-			
īj = + 2°C	Pdh	6.9	kW	Ti = + 2°C	COPd	3.81	-			
Degradation coefficient	Cdh	0.99	-			0.01				
-j = + 7°C	Pdh	4.5	kW	Tj = + 7°C	COPd	4.52	-			
Degradation coefficient Ti = + 12°C	Cdh Pdh	0.98	- kW	11						
J = + 12 C Degradation coefficient	Cdh	0.94	- KVV	Tj = + 12°C	COPd	7.05	-			
j = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	2.10	-			
j = operation limit temperature	Pdh	9.6	kW	Tj = operation limit temperature	COPd	1.75	-			
i = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	T j = – 15 °C (if TOL < – 20 °C)	COPd	-	kW			
ivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C			
Cycling interval capacity for heating	Daviah		kW	Cycling interval efficiency	COPcyc	-	-			
	Pcych	-		Heating water operating limit temperature	WTOL	65	°C			
Dower concumption in modeo other	than active m	do								
Power consumption in modes other Off mode	P _{OFF}	0.025	kW	Supplementary heater Rated heat output	Psup	3.4	kW			
	-				FSup	5.4	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							
Annual energy consumption	Q _{HE}	7456	kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h			
	-112									
or 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			
Daily electricity consumption Annual electricity consumption Contact details	AEC	1518	kWh		AFC	-				



Гуре of heat pump	AG4HP141PH								
ype of heat pump		ater heat pum							
	Water-to-water heat pump								
		water heat pu	mp						
ow-temperature heat pump	Yes	🗵 No							
quipped with a supplementary heater	□ Yes	🖾 No							
leat pump combination heater	🗵 Yes	□ No							
Climate	Average		⊠ Colder	Warmer					
emperature application	⊠ Medium	· · · ·	□ Low (35	°C)					
Applied starndards	EN14825 / E	N16147							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	13	kW	Seasonal space heating energy efficiency	η _s	132	%		
Declared capacity for heating for part lo outdoor temperature Tj	oad 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 indo		
i = - 7°C	Dah	70	L/M/						
J = - 7 C Degradation coefficient	Pdh Cdh	7.8 0.99	kW	– Tj = - 7°C	COPd	2.77	-		
j = + 2°C	Pdh	5.2	- kW	T'	005.1	4.62			
Degradation coefficient	Cdh	0.98	-	– Tj = + 2°C	COPd	4.23	-		
ij=+7°C	Pdh	2.9	kW	Ti = + 7°C	COPd	5.24	_		
Degradation coefficient	Cdh	0.95	-	1] - 1 7 8	COLO	5.24			
j = + 12°C	Pdh	3.3	kW	Ti = + 12°C	COPd	7.55	-		
Degradation coefficient	Cdh	0.94	-	,					
j = bivalent temperature	Pdh Pdh	10.7	kW kW	Tj = bivalent temperature	COPd COPd	1.99	-		
j = operation limit temperature j = - 15 °C (if TOL < - 20 °C)	Pdh	7.0	kW	Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C)	COPd	1.18 1.99	- kW		
ivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-22	°C		
		-10	kW	Cycling interval efficiency	COPcyc	-22	0		
	Pcych	-		Heating water operating limit		-	-		
				temperature	WTOL	65	°C		
	than active me	ode		Supplementary heater					
ower consumption in modes other	P _{OFF}	0.025	kW	Rated heat output	Psup	6.0	kW		
•						rsup 0.0			
Off mode		0.025	kW						
Off mode Thermostat-off mode	P _{SB}	0.025	kW			Electric			
Off mode Thermostat-off mode Standby mode	P _{SB} P _{TO}	0.025	kW	Type of energy input		Electric			
Off mode Thermostat-off mode Standby mode	P _{SB}			Type of energy input		Electric			
off mode Thermostat-off mode Standby mode Crankcase heater mode	P _{SB} P _{TO}	0.025	kW	Type of energy input		Electric			
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items	P _{SB} P _{TO}	0.025	kW	Type of energy input Rated air flow rate, outdoor	-	Electric	m ³ /h		
Power consumption in modes other Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor	P _{SB} P _{TO}	0.025 0.025	kW	Rated air flow rate, outdoor	-				
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control	Р _{SB} Р _{TO} Р _{CK}	0.025 0.025 variable	kW kW		-		m³/h m³/h		
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption	P _{SB} P _{TO} P _{CK}	0.025 0.025 variable -/68	kW kW dB	Rated air flow rate, outdoor Rated brine or water flow rate, outdoor	-				
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption For heat pump combination heater	P _{SB} P _{TO} P _{CK}	0.025 0.025 variable -/68	kW kW dB	Rated air flow rate, outdoor Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h		
Off mode Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoor / outdoor Annual energy consumption	P _{SB} P _{TO} P _{CK}	0.025 0.025 variable -/68 9572	kW kW dB	Rated air flow rate, outdoor Rated brine or water flow rate, outdoor	- - Qfuel				



Model	AG4HP141PH								
		ater heat pump							
ype of heat pump	□ Water-to-water heat pump								
		water heat pu	mp						
ow-temperature heat pump	□ Yes	🗵 No							
Equipped with a supplementary heater	□ Yes	🗵 No							
Heat pump combination heater	🗵 Yes	□ No							
Climate	Average		Colder	🗵 Warmer					
Femperature application	🗵 Medium		□ Low (35	°C)					
Applied starndards	EN14825 / E	N16147							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	Prated	14	kW	Seasonal space heating energy efficiency	η_s	186	%		
Declared capacity for heating for part lo	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or p	rimary energy	ratio for part lo	oad at indo		
outdoor temperature Tj				temperature 20 °C and outdoor temperat					
Гј = - 7°С	Pdh	-	kW	Ti = - 7°C	COPd	-	_		
Degradation coefficient	Cdh	-	-			-			
ſj = + 2°C	Pdh	14.2	kW	Ti = + 2°C	COPd	2.30	-		
Degradation coefficient	Cdh	1.00	-			2.00			
ſj = + 7°C	Pdh	8.4	kW	Tj = + 7°C	COPd	3.73	-		
Degradation coefficient	Cdh	0.99	-	,					
[j = + 12°C	Pdh	4.2	kW	– Tj = + 12°C	COPd	6.75	-		
Degradation coefficient	Cdh	0.96	-	The bird of the second second	000	0.00			
j = bivalent temperature	Pdh	14.2	kW kW	Tj = bivalent temperature	COPd COPd	2.30	-		
j = operation limit temperature j = – 15 °C (if TOL < – 20 °C)	Pdh Pdh	14.2	kW	Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C)	COPd	2.30	- kW		
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	2	°C		
	TDIV	2		Operation minit temperature	TOL	2	0		
		-	kW	Cycling interval efficiency	COPcyc	-	-		
Cycling interval capacity for heating	Pcych			Heating water operating limit					
				temperature	WTOL	65	°C		
		•							
Power consumption in modes other		1		Supplementary heater	-	-			
Off mode	P _{OFF}	0.025	kW	Rated heat output	Psup	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}	0.025	kW						
			•	-					
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}	4008	kWh	heat exchanger	-	-	m³/h		
				11					
or 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 electricity consumption			1	Annual fuel consumption		 BS), Italy			