

Model	AG4HP121PH							
		ater heat pum						
ype of heat pump	Water-to-water heat pump Brine-to-water heat pump							
	□ Brine-to-water heat pump □ Yes ⊠ No							
ow-temperature heat pump	Ì							
quipped with a supplementary heater	□ Yes	🗵 No						
leat pump combination heater	🗵 Yes	🗆 No						
Climate	⊠ Average		Colder	Warmer				
emperature application	Medium	· /	🗵 Low (35	δ°C)				
Applied starndards	EN14825 / E	N16147						
tem	Symbol Value Unit			Item	Symbol	Value	Unit	
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	188	%	
Declared capacity for heating for part lo 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 indoo	
-j = - 7°C	Pdh	10.7	kW	Ti – 7°C	COD4	2.09		
Degradation coefficient	Cdh	0.99	-	Tj = - 7°C	COPd	2.98	-	
j = + 2°C	Pdh	6.1	kW	Ti = + 2°C	COPd	4.38	-	
Degradation coefficient	Cdh	0.98	-					
j = + 7°C	Pdh	4.1	kW	Tj = + 7°C	COPd	7.03	-	
egradation coefficient i = + 12°C	Cdh Pdh	0.96	- kW					
Degradation coefficient	Cdh	0.93	-	Tj = + 12°C	COPd	9.49	-	
j = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	2.98	-	
j = operation limit temperature	Pdh	10.2	kW	Tj = operation limit temperature	COPd	2.62	-	
j = – 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	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
· ) -·····g ·················g	,	-		Heating water operating limit temperature	WTOL	65	°C	
Power consumption in modes other	1	1	134/	Supplementary heater	D	10	1.1.47	
Off mode	P <sub>OFF</sub>	0.025	kW	Rated heat output	Psup	1.8	kW	
hermostat-off mode	P <sub>SB</sub>	0.025	kW	-11				
Standby mode	P <sub>TO</sub>	0.025	kW	Type of energy input	Electric			
Crankcase heater mode	P <sub>CK</sub>	0.025	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoor	-	5015	m³/h	
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB					
Annual energy consumption	Q <sub>HE</sub>	5194	kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h	
or heat pump combination heater		V!		Weter booting and the second		140	0/	
Declared load profile		XL		Water heating energy efficiency	η <sub>wh</sub>	110	%	
aily electricity consumption	Qelec	7.243	kWh	Daily fuel consumption	Qfuel	-	kWh	
Annual electricity consumption	AEC	1518	kWh	Annual fuel consumption	AFC	-	GJ	
Contact details				a Alfeno Varo, 35, 25020, Al		BS), Italy		



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ype 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						
Heat pump combination heater	🗵 Yes	□ No						
Climate	Average		⊠ Colder	Warmer				
Temperature application	Medium	· /	区 Low (35	5°C)				
Applied starndards	EN14825 / E	N16147						
tem	Symbol Value Unit		Unit	Item Symbol Value			Unit	
Rated heat output	Prated	11	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	181	%	
Declared capacity for heating for part lo	ad at indoor te	mperature 20	°C and	Declared coefficient of performance or p		ratio for part lo	oad at indo	
outdoor temperature Tj				temperature 20 °C and outdoor temperat	ture Tj			
Гј = - 7°С	Pdh	6.9	kW	Ti = - 7°C	COPd	3.88	-	
Degradation coefficient	Cdh	0.99	-			0.00	L	
[j = + 2°C	Pdh	4.1	kW	Tj = + 2°C	COPd	5.71	-	
Degradation coefficient Fi = + 7°C	Cdh Pdh	0.97	- kW	11				
Degradation coefficient	Cdh	0.93	- KVV	– Tj = + 7°C	COPd	7.20	-	
$f_{\rm I}$ = + 12°C	Pdh	3.2	kW		0054	0.77		
Degradation coefficient	Cdh	0.93	-	– Tj = + 12°C	COPd	8.77	-	
j = bivalent temperature	Pdh	9.2	kW	Tj = bivalent temperature	COPd	2.74	-	
j = operation limit temperature	Pdh	7.9	kW	Tj = operation limit temperature	COPd	1.89	-	
j = – 15 °C (if TOL < – 20 °C)	Pdh	9.2	kW	T j = – 15 °C (if TOL < – 20 °C)	COPd	2.74	kW	
livalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-22	°C	
Cycling interval capacity for heating Pcych		cych -	kW	Cycling interval efficiency	COPcyc	-	-	
	Pcych			Heating water operating limit				
				temperature	WTOL	65	°C	
Power consumption in modes other	than active mo	ode		Supplementary heater				
Off mode	P <sub>OFF</sub>	0.025	kW	Rated heat output	Psup	3.1	kW	
Thermostat-off mode	P <sub>SB</sub>	0.025	kW		1 oup	0.1		
		0.025	kW		Electric			
Standby mode	P <sub>TO</sub>			Type of energy input				
Crankcase heater mode	Р <sub>СК</sub>	0.025	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoor	-	5015	m³/h	
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB	Boted bring or water flow rate and date				
Annual energy consumption	Q <sub>HE</sub>	6044	kWh	Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h	
·								
or heat pump combination heater		VI						
Declared load profile	+	XL	1	Water heating energy efficiency	η <sub>wh</sub>	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	ARG	GOCLIMA	S.p.A.Vi	a Alfeno Varo, 35, 25020, Al	fianello (	BS), Italy	,	



	AG4HP121PH							
	ater heat pum							
Water-to-water heat pump								
□ Yes	🗵 No							
□ Yes	🗵 No							
🗵 Yes	🗆 No							
<u> </u>		Colder	🗵 Warmer					
	· /	🗵 Low (35	5°C)					
EN14825 / E	N16147							
Symbol	Value	Unit	Item Symbol Value					
Prated	12	kW	Seasonal space heating energy efficiency	$\eta_s$	273	%		
oad at indoor te	mperature 20	°C and		rimary energy	ratio for part lo	bad at indo		
			temperature 20 °C and outdoor temperat	ture Tj				
Pdh	-	kW	Ti - 7°C	COD4				
Cdh	-	-		COPa	-	-		
Pdh	11.6	kW	$Ti = + 2^{\circ}C$	COPd	3.65	_		
Cdh	0.99	-	·j - · 2 0	00Fu	5.00			
Pdh	7.3	kW	Ti = + 7°C	COPd	5.74	-		
Cdh	0.98	-		0014	0.1-7			
			Tj = + 12°C	COPd	9.38	-		
						-		
						-		
						kW		
I biv	2	<u> </u>	Operation limit temperature	TOL	2	°C		
Daviah	-	kW	Cycling interval efficiency	COPcyc	-	-		
ycling interval capacity for heating Pcych			Heating water operating limit temperature	WTOL	65	°C		
	1							
them eather m	- d -		Cumulamentem: heaten					
than active mo	1	1.1.07	Supplementary heater	Deve	0	1.).0/		
P <sub>OFF</sub>	0.025	kW	Supplementary heater Rated heat output	Psup	0	kW		
P <sub>OFF</sub> P <sub>SB</sub>	1	kW kW		Psup	0	kW		
P <sub>OFF</sub>	0.025			Psup	0 Electric	kW		
P <sub>OFF</sub> P <sub>SB</sub>	0.025 0.025	kW	Rated heat output	Psup		kW		
P <sub>OFF</sub> P <sub>SB</sub> P <sub>TO</sub>	0.025 0.025 0.025	kW kW	Rated heat output	Psup		kW		
P <sub>OFF</sub> P <sub>SB</sub> P <sub>TO</sub>	0.025 0.025 0.025 0.025	kW kW	Rated heat output Type of energy input		Electric			
Р <sub>оFF</sub> Р <sub>SB</sub> Р <sub>TO</sub> Р <sub>CK</sub>	0.025 0.025 0.025 0.025 variable	kW kW kW	Rated heat output	Psup -		kW m³/h		
P <sub>OFF</sub> P <sub>SB</sub> P <sub>TO</sub>	0.025 0.025 0.025 0.025	kW kW	Rated heat output         Type of energy input         Rated air flow rate, outdoor         Rated brine or water flow rate, outdoor		Electric	m³/h		
Р <sub>оFF</sub> Р <sub>SB</sub> Р <sub>TO</sub> Р <sub>CK</sub>	0.025 0.025 0.025 0.025 variable	kW kW kW	Rated heat output         Type of energy input         Rated air flow rate, outdoor		Electric			
P <sub>OFF</sub> P <sub>SB</sub> P <sub>TO</sub> P <sub>CK</sub>	0.025 0.025 0.025 0.025 variable -/68	kW kW kW	Rated heat output         Type of energy input         Rated air flow rate, outdoor         Rated brine or water flow rate, outdoor		Electric	m³/h		
P <sub>OFF</sub> P <sub>SB</sub> P <sub>TO</sub> P <sub>CK</sub>	0.025 0.025 0.025 0.025 variable -/68	kW kW kW	Rated heat output         Type of energy input         Rated air flow rate, outdoor         Rated brine or water flow rate, outdoor	-	Electric	m³/h		
P <sub>OFF</sub> P <sub>SB</sub> P <sub>TO</sub> P <sub>CK</sub>	0.025 0.025 0.025 0.025 variable -/68 2236	kW kW kW	Rated heat output         Type of energy input         Rated air flow rate, outdoor         Rated brine or water flow rate, outdoor heat exchanger		Electric 5015 -	m <sup>3</sup> /h m <sup>3</sup> /h		
	□       Yes         □       Average         □       Medium         EN14825 / E         Symbol         Prated         Dad at indoor te         Pdh         Cdh         Pdh         Cdh         Pdh         Cdh         Pdh         Cdh	Yes         ⊠         No           ☑         Yes         No           □         Average           □         Medium (55°C)           EN14825 / EN16147           Symbol         Value           Prated         12           Dad at indoor temperature 20           Pdh         -           Cdh         -           Pdh         11.6           Cdh         0.99           Pdh         7.3           Cdh         0.98           Pdh         3.3           Cdh         0.93           Pdh         11.6           Pdh         -           Tbiv         2	Yes         ⊠         No           ☑         Yes         No           ☑         Average         ☐         Colder           ☑         Medium (55°C)         ☑         Low (38           EN14825 / EN16147         Symbol         Value         Unit           Prated         12         kW           Dad at indoor temperature 20 °C and         Cdh         -           Pdh         -         kW           Cdh         0.99         -           Pdh         7.3         kW           Cdh         0.98         -           Pdh         3.3         kW           Cdh         0.93         -           Pdh         11.6         kW           Pdh         11.6         kW           Pdh         -         kW           Tbiv         2         °C	YesNoYesNoAverageColderMedium (55°C)Low (35°C)EN14825 / EN16147Ymade12Prated12Pdh-Pdh-Pdh-Pdh11.6KWCdh0.99Pdh7.3Pdh7.3Pdh11.6Cdh0.98Pdh11.6Pdh11.6Pdh11.6Cdh0.98Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh2°COperation limit temperatureTj = - 15 °C (if TOL < - 20 °C)Operation limit temperaturePoych-KW	YesNoAverageColderWarmerAverageColderWarmerMedium (55°C)Low (35°C)EN14825 / EN16147Low (35°C)SymbolValueUnitPrated12kWDeclared coefficient of performance or primary energy temperature 20 °C andPdh-kWCdh-Pdh11.6kWCdh0.99Pdh7.3kWCdh0.98Pdh11.6kWCdh0.98Pdh11.6kWCdh0.98Pdh11.6kWCdh0.98Pdh11.6kWCdh0.93Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh11.6Pdh	YesNoYesNoAverageColderWarmerAverageColderWarmerMedium (55°C)Low (35°C)EN14825 / EN16147Prated12kWPrated12kWCdhPdh-kWCdhPdh11.6kWCdh0.99-Pdh7.3kWCdh0.98Pdh3.3kWCdh0.98Pdh11.6kWCdh0.93Pdh11.6kWCdh0.93Pdh11.6kWCdh0.93Pdh11.6kWPdh11.6kWPdh11.6kWPdh11.6kWPdh11.6kWPdh11.6kWPdh11.6kWPdh11.6kWPdh11.6kWPdh11.6kWPdh11.6kWPdh11.6kWPcych-kWPcych-kW		



ter heat pum water heat pu water heat pu ⊠ No □ No □ No (55°C) V16147 Value 12 nperature 20 10.4 0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8 - -7	Imp mp Colder Low (35 Unit kW	ItemSeasonal space heating energy efficiencyDeclared coefficient of performance or p temperature 20 °C and outdoor temperatTj = - 7°CTj = + 2°CTj = + 7°CTj = + 12°CTj = bivalent temperatureTj = operation limit temperatureT = - 15 °C (if TOL < - 20 °C)Operation limit temperatureCycling interval efficiency		Value 144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 - 10 -	Unit % Dad at indoo - - - - - - - - - - - - - - - - - -	
vater heat pui	Colder Colder Low (35 KW °C and °C and * KW - KW - KW - KW - KW - KW - KW - KW	°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p temperature 20 °C and outdoor temperature Tj = - 7°C Tj = + 2°C Tj = + 7°C Tj = + 12°C Tj = bivalent temperature Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	ŋs       rimary energy       ture Tj       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       TOL	144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 -	% pad at indoo - - - - - - - - - -	
⊠         No           ☑         I           ☑         I           ☑         No           ☑         I           ☑         No           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑         I           ☑	Colder Colder Unit kW °C and *C and kW - kW - kW - kW - kW - kW - kW - kW	°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p temperature 20 °C and outdoor temperature Tj = - 7°C Tj = + 2°C Tj = + 7°C Tj = + 12°C Tj = bivalent temperature Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	ŋs       rimary energy       ture Tj       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       TOL	144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 -	% pad at indoo - - - - - - - - - -	
No           No           10.4           0.99           6.9           0.99           4.3           0.97           3.0           0.94           10.4	Low (35     Low (35     K     K     K     *     C and     K     K     -     K     K     -     K	°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p temperature 20 °C and outdoor temperature Tj = - 7°C Tj = + 2°C Tj = + 7°C Tj = + 12°C Tj = bivalent temperature Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	ŋs       rimary energy       ture Tj       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       TOL	144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 -	% pad at indoo - - - - - - - - - -	
No           Value           12           nperature 20           10.4           0.99           6.9           0.99           4.3           0.97           3.0           0.94           10.4	Low (35     Low (35     K     K     K     *     C and     K     K     -     K     K     -     K	°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p temperature 20 °C and outdoor temperature Tj = - 7°C Tj = + 2°C Tj = + 7°C Tj = + 12°C Tj = bivalent temperature Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	ŋs       rimary energy       ture Tj       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       TOL	144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 -	% pad at indoo - - - - - - - - - -	
(55°C) N16147 Value 12 nperature 20 10.4 0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8 -	Low (35     Low (35     K     K     K     *     C and     K     K     -     K     K     -     K	°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p temperature 20 °C and outdoor temperature Tj = - 7°C Tj = + 2°C Tj = + 7°C Tj = + 12°C Tj = bivalent temperature Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	ŋs       rimary energy       ture Tj       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       TOL	144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 -	% pad at indoo - - - - - - - - - -	
V16147 Value 12 nperature 20 10.4 0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8 -	Low (35     Low (35     K     K     K     *     C and     K     K     -     K     K     -     K	°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p temperature 20 °C and outdoor temperature Tj = - 7°C Tj = + 2°C Tj = + 7°C Tj = + 12°C Tj = bivalent temperature Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	ŋs       rimary energy       ture Tj       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       TOL	144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 -	% pad at indoo - - - - - - - - - - - - -	
V16147 Value 12 nperature 20 10.4 0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8 -	Unit           kW           °C and           kW           -           -           -           -           -           -	ItemSeasonal space heating energy efficiencyDeclared coefficient of performance or p temperature 20 °C and outdoor temperatTj = - 7°CTj = + 2°CTj = + 7°CTj = + 12°CTj = bivalent temperatureTj = operation limit temperatureT = - 15 °C (if TOL < - 20 °C)	ŋs       rimary energy       ture Tj       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       TOL	144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 -	% pad at indoo - - - - - - - - - - - - -	
Value 12 nperature 20 10.4 0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8 -	kW           °C and           kW           -	Seasonal space heating energy efficiencyDeclared coefficient of performance or p temperature 20 °C and outdoor temperatTj = - 7°CTj = + 2°CTj = + 7°CTj = + 12°CTj = bivalent temperatureTj = operation limit temperatureT = - 15 °C (if TOL < - 20 °C)	ŋs       rimary energy       ture Tj       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       TOL	144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 -	% pad at indoo - - - - - - - - - -	
12 nperature 20 10.4 0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8 -	kW           °C and           kW           -	Seasonal space heating energy efficiencyDeclared coefficient of performance or p temperature 20 °C and outdoor temperatTj = - 7°CTj = + 2°CTj = + 7°CTj = + 12°CTj = bivalent temperatureTj = operation limit temperatureT = - 15 °C (if TOL < - 20 °C)	ŋs       rimary energy       ture Tj       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       COPd       TOL	144 ratio for part lo 2.11 3.81 4.36 6.96 2.11 1.77 -	% pad at indoo - - - - - - - - - -	
10.4 0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8 -	°C and °C and - - - - - - - - - - - - -	efficiencyDeclared coefficient of performance or ptemperature 20 °C and outdoor temperatTj = - 7°CTj = + 2°CTj = + 7°CTj = + 12°CTj = bivalent temperatureTj = operation limit temperatureT = - 15 °C (if TOL < - 20 °C)Operation limit temperatureCycling interval efficiency	rimary energy ture Tj COPd COPd COPd COPd COPd COPd COPd COPd	2.11 3.81 4.36 6.96 2.11 1.77 -		
10.4 0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8	kW - - - - - - - - - - - - - - - - - - -	Declared coefficient of performance or p temperature 20 °C and outdoor temperat Tj = - 7°C Tj = + 2°C Tj = + 2°C Tj = + 12°C Tj = bivalent temperature Tj = operation limit temperature T = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	ture Tj COPd COPd COPd COPd COPd COPd COPd COPd	2.11 3.81 4.36 6.96 2.11 1.77	- - - - - - - - -	
0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8	- kW - kW - kW kW kW kW C	$Tj = -7^{\circ}C$ $Tj = +2^{\circ}C$ $Tj = +7^{\circ}C$ $Tj = +12^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ $T = -15^{\circ}C (if TOL < -20^{\circ}C)$ $Operation limit temperature$ $Cycling interval efficiency$	COPd COPd COPd COPd COPd COPd COPd COPd	3.81 4.36 6.96 2.11 1.77	- - - - - - -	
0.99 6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8	- kW - kW - kW kW kW kW C	$Tj = + 2^{\circ}C$ $Tj = + 7^{\circ}C$ $Tj = + 12^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ $T j = - 15^{\circ}C (if TOL < - 20^{\circ}C)$ $Operation limit temperature$ $Cycling interval efficiency$	COPd COPd COPd COPd COPd COPd COPd TOL	3.81 4.36 6.96 2.11 1.77	- - - - - - -	
6.9 0.99 4.3 0.97 3.0 0.94 10.4 9.8 -	- kW - kW - kW kW kW °C	$Tj = + 2^{\circ}C$ $Tj = + 7^{\circ}C$ $Tj = + 12^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ $T j = - 15^{\circ}C (if TOL < - 20^{\circ}C)$ $Operation limit temperature$ $Cycling interval efficiency$	COPd COPd COPd COPd COPd COPd COPd TOL	3.81 4.36 6.96 2.11 1.77	- - - - - - -	
0.99 4.3 0.97 3.0 0.94 10.4 9.8 -	- kW - kW - kW kW kW °C	$Tj = + 7^{\circ}C$ $Tj = + 12^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ $Tj = - 15^{\circ}C (if TOL < - 20^{\circ}C)$ $Operation limit temperature$ $Cycling interval efficiency$	COPd COPd COPd COPd COPd TOL	4.36 6.96 2.11 1.77	kW	
4.3 0.97 3.0 0.94 10.4 9.8 -	- kW - kW kW kW °C	$Tj = + 7^{\circ}C$ $Tj = + 12^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ $Tj = - 15^{\circ}C (if TOL < - 20^{\circ}C)$ $Operation limit temperature$ $Cycling interval efficiency$	COPd COPd COPd COPd COPd TOL	4.36 6.96 2.11 1.77	kW	
0.97 3.0 0.94 10.4 9.8 -	- kW - kW kW kW °C	$Tj = + 12^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ $Tj = - 15^{\circ}C (if TOL < - 20^{\circ}C)$ Operation limit temperature Cycling interval efficiency	COPd COPd COPd COPd TOL	6.96 2.11 1.77 -	kW	
3.0 0.94 10.4 9.8	kW - kW kW kW °C		COPd COPd COPd TOL	2.11 1.77 -	kW	
0.94 10.4 9.8 -	- kW kW kW °C		COPd COPd COPd TOL	2.11 1.77 -	kW	
10.4 9.8 -	kW kW kW °C	Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	COPd COPd TOL	1.77 -	kW	
9.8 -	kW kW °C	Tj = operation limit temperature T j = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	COPd COPd TOL	1.77 -	kW	
-	kW °C	T j = - 15 °C (if TOL < - 20 °C) Operation limit temperature Cycling interval efficiency	COPd TOL	-		
-7	°C	Operation limit temperature Cycling interval efficiency	TOL	-10 -		
-	kW	Cycling interval efficiency	COPcyc	-	-	
	kW	Line Room to a construction Room				
	ĸvv	Heating water operating limit temperature	WTOL	65	°C	
de	1	Supplementary heater				
0.025	kW	Rated heat output	Psup	2.2	kW	
0.025	kW					
0.025	kW	Type of energy input	Electric			
0.025	kW					
variable		Rated air flow rate, outdoor	-	5015	m³/h	
	dB				,	
		Rated brine or water flow rate, outdoor beat exchanger	-	-	m³/h	
0000	KVVII					
XL		Water heating energy efficiency	η <sub>wh</sub>	110	%	
7.243	kWh	Daily fuel consumption	Qfuel	-	kWh	
1518	kWh	Annual fuel consumption	AFC	-	GJ	
	0.025 variable -/68 6606 XL 7.243 1518	0.025 kW variable -/68 dB 6606 kWh -/68 tkWh 1518 kWh	Variable     Rated air flow rate, outdoor       -/68     dB       6606     kWh       KL     Water heating energy efficiency       7.243     kWh       1518     kWh	Number     Number       0.025     kW       variable     Rated air flow rate, outdoor       -/68     dB       6606     kWh       6606     kWh       XL     Water heating energy efficiency       7.243     kWh       1518     kWh	Variable     Rated air flow rate, outdoor     -     5015       -/68     dB     Rated brine or water flow rate, outdoor     -     5015       6606     kWh     Rated brine or water flow rate, outdoor     -     -       XL     Water heating energy efficiency     n <sub>wh</sub> 110       7.243     kWh     Daily fuel consumption     Qfuel     -	



Model	AG4HP121PH						
		ater heat pum					
ype of heat pump	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			
Cemperature application	🗵 Medium	( )	□ Low (35	°C)			
Applied starndards	EN14825 / E	N16147					
tem	Symbol Value Unit			Item Symbol Value			
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	$\eta_s$	129	%
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
utdoor temperature Tj				temperature 20 °C and outdoor temperat			
ſj = - 7°C	Pdh	7.8	kW	Ti - 7°C		0.77	
Degradation coefficient	Cdh	0.99	-	– Tj = - 7°C	COPd	2.77	-
īj = + 2°C	Pdh	4.4	kW	- Ti = + 2°C	COPd	3.95	_
Degradation coefficient	Cdh	0.98	-	·j - · 2 0		5.95	
j = + 7°C	Pdh	2.8	kW	Tj = + 7°C	COPd	5.55	_
Degradation coefficient	Cdh	0.95	-			0.00	
j = + 12°C	Pdh	3.3	kW	– Tj = + 12°C	COPd	7.45	-
Degradation coefficient	Cdh	0.94	-				
j = bivalent temperature	Pdh	9.9	kW	Tj = bivalent temperature	COPd	1.96	-
j = operation limit temperature	Pdh	7.0	kW	Tj = operation limit temperature	COPd	1.18	-
j = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	kW	$T j = -15 \degree C (if TOL < -20 \degree C)$	COPd	1.96	kW
ivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating Pcych				Cycling interval efficiency	COPcyc	-	-
	- kW	kW	Heating water operating limit	┟─────╂			
				temperature	WTOL	65	°C
Power consumption in modes other		1	1.1.1	Supplementary heater	D	50	134/
Off mode	P <sub>OFF</sub>	0.025	kW	Rated heat output	Psup	5.0	kW
hermostat-off mode	P <sub>SB</sub>	0.025	kW	]]			
Standby mode	P <sub>TO</sub>	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	Р <sub>ск</sub>	0.025	kW				
Other items	1						2
Capacity control	<u> </u>	variable	1	Rated air flow rate, outdoor	-	5015	m³/h
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB	Rated brine or water flow rate, outdoor			2
Annual energy consumption	Q <sub>HE</sub>	9034	kWh	heat exchanger	-	-	m³/h
las baat numn aambinstien bester			•				
For heat pump combination heater Declared load profile		XL		Water heating energy efficiency	η <sub>wh</sub>	87	%
Daily electricity consumption	Qelec	9.164	kWh	Daily fuel consumption	Qfuel	-	kWh
nnual electricity consumption	AEC	1924	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	AR	GOCLIMA	A S.p.A.V	ia Alfeno Varo, 35, 25020, A	Ifianello	(BS), Italy	/
Contact details	AR	GOCLIMA	A S.p.A.V	ia Alfeno Varo, 35, 25020, A	lfianello	(BS), Italy	y



Model				AG4HP121PH					
		ater heat pump							
ype of heat pump	Water-to-water heat pump								
ow-temperature heat pump	□ Yes	🗵 No							
Equipped with a supplementary heater	□ Yes	🗵 No							
leat 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	Value	Unit			
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	$\eta_s$	180	%		
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	ture Tj				
Гј = - 7°С	Pdh	-	kW	Ti = - 7°C	COPd	-	_		
Degradation coefficient	Cdh	-	-		00Fu	-	-		
$fj = + 2^{\circ}C$	Pdh	12.2	kW	Tj = + 2°C	COPd	2.27	-		
Degradation coefficient	Cdh	1.00	-						
$fj = +7^{\circ}C$	Pdh	8.1	kW	– Tj = + 7°C	COPd	3.74	-		
Degradation coefficient	Cdh	0.99	-						
[j = + 12°C	Pdh	3.5	kW	– Tj = + 12°C	COPd	6.29	-		
Degradation coefficient	Cdh Pdh	0.95	- kW	Tj = bivalent temperature	COPd	2.27			
j = operation limit temperature	Pdh	12.2 12.2	kW	Tj = operation limit temperature	COPd	2.27	-		
j = -15 °C (if TOL < $-20 $ °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		
	1 DIV	2			IUL	2			
Cycling interval capacity for heating Pcych			kW	Cycling interval efficiency	COPcyc	-	-		
	Pcych	-		Heating water operating limit					
				temperature	WTOL	65	°C		
Power consumption in modes other		1	1347	Supplementary heater	D	0	134/		
Off mode	P <sub>OFF</sub>	0.025	kW	Rated heat output	Psup	0	kW		
Thermostat-off mode	P <sub>SB</sub>	0.025	kW						
Standby mode	P <sub>TO</sub>	0.025	kW	Type of energy input	Electric				
Crankcase heater mode	P <sub>CK</sub>	0.025	kW						
Other items	-						2		
Capacity control	+	variable		Rated air flow rate, outdoor	-	5015	m³/h		
Sound power level, indoor / outdoor	L <sub>WA</sub>	-/68	dB	Rated brine or water flow rate, outdoor			2		
Annual energy consumption	Q <sub>HE</sub>	3558	kWh	heat exchanger	-	-	m³/h		
	•	•	•	•••					
For heat pump combination heater Declared load profile		XL		Water heating energy efficiency	n	113	%		
•		1			η <sub>wh</sub>				
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), Italy	,		