

INFORMATION SHEET

Manufacturer: Argoclima S.p.A. – via Alfeno Varo, 35 – 25020 Alfianello (BS) – ITALY					
Model				ANGHP08S / ANGHP08T SERB. ACS 300 LT B-1S	
Space heating temperature application		°C		35°C	55°C
Water heating declared load profile		-		XL	
Seasonal space heating energy efficiency class		-		A+++	A++
Water heating energy efficiency class		-		A+	
Rated heat output	Average climate	P_{rated}	kW	8	7
Space heating annual energy consumption	Average climate	Q_{HE}	kWh	3241	3556
Water heating annual electricity consumption	Average climate	AEC	kWh	1331	
Seasonal space heating energy efficiency	Average climate	η_s	%	188	148
Water heating energy efficiency	Average climate	η_{wh}	%	126	
Indoor sound power level		L_{WA}	dB(A)	-	
Rated heat output	Colder climate	P_{rated}	kW	8	8
	Warmer climate		kW	8	7
Space heating annual energy consumption	Colder climate	Q_{HE}	kWh	4489	5297
	Warmer climate	Q_{HE}	kWh	1558	1997
Water heating annual electricity consumption	Colder climate	AEC	kWh	1533	
	Warmer climate	AEC	kWh	1142	
Seasonal space heating energy efficiency	Colder climate	η_s	%	175	137
	Warmer climate	η_s	%	261	187
Water heating energy efficiency	Colder climate	η_{wh}	%	109	
	Warmer climate	η_{wh}	%	147	
Outdoor sound power level		L_{WA}	dB(A)	53	

TECHNICAL PARAMETERS				
Model	ANGHP08S / ANGHP08T SERB. ACS 300 LT B-1S			
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 condition	☒ Average ☐ Colder ☐ Warmer			
Temperature application	☐ Low (35°C) ☒ Medium (55°C)			
Applied standards	EN 14825 / EN 14511 / EN 12102 / EN 16147			
Rated heat output	P_{rated}	7	kW	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				
[A] $T_j = -7^{\circ}\text{C}$	P_{dh}	6,0	kW	
[B] $T_j = +2^{\circ}\text{C}$	P_{dh}	3,3	kW	
[C] $T_j = +7^{\circ}\text{C}$	P_{dh}	2,3	kW	
[D] $T_j = +12^{\circ}\text{C}$	P_{dh}	2,4	kW	
[E] $T_j = \text{operation limit temperature}$	P_{dh}	6,0	kW	
[F] $T_j = \text{bivalent temperature}$	P_{dh}	6,0	kW	
[G] $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	P_{dh}	-	kW	
Bivalent temperature	T_{biv}	-7	°C	
Cycling interval capacity for heating	P_{cych}	-	kW	
Degradation co-efficient	C_{dh}	0,9	-	
Power consumption in modes other than active mode				
Off mode	P_{OFF}	0,006	kW	
Thermostat-off mode	P_{SB}	0,006	kW	
Standby mode	P_{TO}	0,006	kW	
Crankcase heater mode	P_{CK}	0,000	kW	
Other items				
Capacity control	Variable			
Sound power level, indoor / outdoor	L_{WA}	- / 53	dB	
Annual energy consumption	Q_{HE}	3556	kWh	
Water heating				
Declared load profile	XL			
Daily electricity consumption	Q_{elec}	6,052	kWh	
Annual electricity consumption	AEC	1331	kWh	
Contact details				
Argoclima S.p.A. – via Alfeno Varo, 35 – 25020 Alfianello (BS) – ITALY				
Seasonal space heating energy efficiency				
η_s		148	%	
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j				
[A] $T_j = -7^{\circ}\text{C}$	COP_d	2,26	-	
[B] $T_j = +2^{\circ}\text{C}$	COP_d	3,75	-	
[C] $T_j = +7^{\circ}\text{C}$	COP_d	4,90	-	
[D] $T_j = +12^{\circ}\text{C}$	COP_d	6,78	-	
[E] $T_j = \text{operation limit temperature}$	COP_d	1,94	-	
[F] $T_j = \text{bivalent temperature}$	COP_d	2,26	-	
[G] $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COP_d	-	-	
Operation limit temperature		TOL	-10	°C
Cycling interval efficiency		COP_{cyc}	-	-
Heating water operating limit temperature		WTOL	75	°C
Supplementary heater				
Rated heat output		P_{sup}	0,5	kW
Type of energy input		Electric		
Rated air flow rate, outdoors		-	3350	m ³ /h
Water heating energy efficiency		η_{WH}	126	%

TECHNICAL PARAMETERS				
Model	ANGHP08S / ANGHP08T SERB. ACS 300 LT B-1S			
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 condition	☒ Average ☐ Colder ☐ Warmer			
Temperature application	☒ Low (35°C) ☐ Medium (55°C)			
Applied standards	EN 14825 / EN 14511 / EN 12102 / EN 16147			
Rated heat output	P_{rated}	8	kW	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				
[A] $T_j = -7^{\circ}\text{C}$	P_{dh}	7,0	kW	
[B] $T_j = +2^{\circ}\text{C}$	P_{dh}	3,8	kW	
[C] $T_j = +7^{\circ}\text{C}$	P_{dh}	2,6	kW	
[D] $T_j = +12^{\circ}\text{C}$	P_{dh}	2,3	kW	
[E] $T_j = \text{operation limit temperature}$	P_{dh}	6,9	kW	
[F] $T_j = \text{bivalent temperature}$	P_{dh}	7,0	kW	
[G] $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	P_{dh}	-	kW	
Bivalent temperature	T_{biv}	-7	°C	
Cycling interval capacity for heating	P_{cyc}	-	kW	
Degradation co-efficient	C_{dh}	0,9	-	
Power consumption in modes other than active mode				
Off mode	P_{OFF}	0,006	kW	
Thermostat-off mode	P_{SB}	0,006	kW	
Standby mode	P_{TO}	0,006	kW	
Crankcase heater mode	P_{CK}	0,000	kW	
Other items				
Capacity control	Variable			
Sound power level, indoor / outdoor	L_{WA}	- / 50	dB	
Annual energy consumption	Q_{HE}	3241	kWh	
Water heating				
Declared load profile	XL			
Daily electricity consumption	Q_{elec}	6,052	kWh	
Annual electricity consumption	AEC	1331	kWh	
Contact details				
Argoclima S.p.A. – via Alfeno Varo, 35 – 25020 Alfianello (BS) – ITALY				

Seasonal space heating energy efficiency	η_s	188	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
[A] $T_j = -7^{\circ}\text{C}$	COP_d	2,59	-
[B] $T_j = +2^{\circ}\text{C}$	COP_d	4,98	-
[C] $T_j = +7^{\circ}\text{C}$	COP_d	6,18	-
[D] $T_j = +12^{\circ}\text{C}$	COP_d	7,63	-
[E] $T_j = \text{operation limit temperature}$	COP_d	2,47	-
[F] $T_j = \text{bivalent temperature}$	COP_d	2,59	-
[G] $T_j = -15^{\circ}\text{C}$ (if TOL < -20°C)	COP_d	-	-
Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	WTOL	75	°C
Supplementary heater			
Rated heat output	P_{sup}	0,6	kW
Type of energy input	Electric		
Rated air flow rate, outdoors	-	3350	m ³ /h
Water heating energy efficiency	η_{WH}	126	%