

Product fiche according to Commission Delegated Regulation (EU) 811/2013

Model		AEYC-0649ZU-CH		AEYC-0849ZU-CH		AEYC-1249ZU-CH		AEYC-0449ZU-CH1		AEYC-0649ZU-CH1		AEYC-1049ZU-CH1	
Temperature application	°C	55	35	55	35	55	35	55	35	55	35	55	35
Seasonal space heating energy efficiency class		A++	A+++	A++	A+++	A++	A+++	A++	A+++	A++	A+++	A++	A+++
Rated heat output	kW	5	5	7	7	11	11	5	5	7	7	11	11
Seasonal space heating energy efficiency	%	130	179	135	178	142	187	129	176	134	175	141	184
Annual energy consumption	kWh	2936	2419	3947	3178	6011	4871	3003	2400	4034	3153	6146	4835
Specific precautions in assembled, installed or maintained		Refer to the installation and operating manuals.											
Rated heat output	Colder climate	kW	–	–	–	–	–	–	–	–	–	–	–
	Warmer climate	kW	5	5	7	7	11	11	5	5	7	7	11
Annual energy consumption	Colder climate	kWh	–	–	–	–	–	–	–	–	–	–	–
	Warmer climate	kWh	1557	1113	2020	1467	3041	2247	1586	1077	2057	1411	3096
Seasonal space heating energy efficiency	Colder climate	%	–	–	–	–	–	–	–	–	–	–	–
	Warmer climate	%	166	248	183	245	185	254	166	252	183	250	185
Sound power level(A7W55)	Outdoor unit	dB	56		57		59		54		54		54

Specifications

Model		AEYC-0649ZU-CH		AEYC-0849ZU-CH		AEYC-1249ZU-CH		AEYC-0449ZU-CH1		AEYC-0649ZU-CH1		AEYC-1049ZU-CH1			
Type		Heating and Cooling Monobloc Type													
Power source		1Ø ~230 V 50 Hz													
Max. current		A	12.0		16.6		24.0		12.0		16.6		24.0		
Max. pressure		MPa	3.5												
Refrigerant (R32)		kg	0.50		0.85		1.15		0.50		0.85		1.15		
Dimension (H × W × D) & weight (NET)		Outdoor unit	mm	886 × 1,000 × 330			1,418 × 1,000 × 330			886 × 1,000 × 330			1,418 × 1,000 × 330		
			kg	66		82		117		66		82		117	
Outdoor temperature range		Heating	-25 to 45												
		Cooling	15 to 45												

● Acoustic Noise Information:

According to EN 12102.

- If the air to water heat pump is operated under higher temperature conditions than those listed, the built-in protection circuit may operate to prevent internal circuit damage. Also, during Cooling modes, if the unit is used under conditions of lower temperatures than those listed above, the heatexchanger may freeze, leading to water leakage and other damage.
- Do not use this unit for any purposes other than the Heating and Cooling.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- The appliance is accessible to the general public.
- Only start up the unit when the outside temperature is –20°C or higher.

Product information according to Commission Delegated Regulation (EU) 813/2013
Product information is based on the average climate condition and medium-temperature.

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Air-to-water heat pump			YES		YES		YES		YES		YES		YES		
Water-to-water heat pump			NO		NO		NO		NO		NO		NO		
Brine-to-water heat pump			NO		NO		NO		NO		NO		NO		
Low-temperature heat pump			NO		NO		NO		NO		NO		NO		
Equipped with a supplementary heater			NO		NO		NO		NO		NO		NO		
Heat pump combination heater			NO		NO		NO		NO		NO		NO		
Temperature application		°C	55	35	55	35	55	35	55	35	55	35	55	35	
Rated heat output (*)		P _{rated}	kW	5	5	7	7	11	11	5	5	7	7	11	11
Seasonal space heating energy efficiency		η _s	%	130	179	135	178	142	187	129	176	134	175	141	184
Declared capacity for heating for part load at outdoor temperature T _j															
T _j = -7° C		P _{dh}	kW	4.19	4.71	5.83	6.16	9.34	9.90	4.26	4.60	5.92	6.02	9.49	9.68
T _j = +2° C		P _{dh}	kW	2.60	3.03	3.48	3.86	5.73	5.92	2.62	2.86	3.51	3.65	5.78	5.59
T _j = +7° C		P _{dh}	kW	1.67	1.87	2.36	2.52	3.58	3.80	1.57	1.78	2.22	2.40	3.38	3.61
T _j = +12° C		P _{dh}	kW	1.49	1.66	2.25	2.41	3.03	3.34	1.47	1.61	2.23	2.34	3.00	3.24
T _j = bivalent temperature		P _{dh}	kW	4.19	4.71	5.83	6.16	9.34	9.90	4.26	4.60	5.92	6.02	9.49	9.68
T _j = operation limit temperature		P _{dh}	kW	3.79	4.26	5.60	5.93	8.48	9.04	3.83	4.13	5.66	5.75	8.57	8.76
T _j = -15° C (if TOL < -20° C)		P _{dh}	kW	-	-	-	-	-	-	-	-	-	-	-	-
Bivalent temperature		T _{biv}	°C	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7
Cycling interval capacity for heating		P _{cych}	kW	Not applicable											
Degradation co-efficient (**)		C _{dh}	-	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Declared coefficient of performance or primary energy ratio for part load at outdoor temperature T _j															
T _j = -7° C		COP _d	-	1.94	2.70	2.01	2.72	2.23	3.00	1.99	2.66	2.05	2.68	2.28	2.96
T _j = +2° C		COP _d	-	3.24	4.43	3.29	4.43	3.43	4.37	3.25	4.33	3.30	4.33	3.45	4.27
T _j = +7° C		COP _d	-	4.55	6.46	4.87	6.11	5.04	6.92	4.29	6.38	4.59	6.03	4.74	6.83
T _j = +12° C		COP _d	-	6.48	7.52	6.98	8.13	6.93	9.28	6.46	7.76	6.96	8.39	6.91	9.59
T _j = bivalent temperature		COP _d	-	1.94	2.70	2.01	2.72	2.23	3.00	1.99	2.66	2.05	2.68	2.28	2.96
T _j = operation limit temperature		COP _d	-	1.74	2.47	1.78	2.55	1.98	2.71	1.77	2.42	1.82	2.51	2.02	2.67
T _j = -15° C (if TOL < -20° C)		COP _d	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation limit temperature		TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Cycling interval efficiency		COP _{cyc}	-	Not applicable											
Heating water operating limit temperature		WTOL	°C	75	75	75	75	75	75	75	75	75	75	75	75
Power consumption in modes other than active mode															
Off mode		POFF	kW	0.005	0.005	0.011	0.010	0.006	0.005	0.005	0.005	0.011	0.010	0.006	0.005
Thermostat-off mode		PTO	kW	0.021	0.027	0.012	0.012	0.033	0.041	0.025	0.021	0.012	0.012	0.033	0.041
Standby mode		PSB	kW	0.005	0.005	0.011	0.010	0.006	0.005	0.025	0.005	0.011	0.010	0.006	0.005
Crankcase heater mode		PCK	kW	0	0	0	0	0	0	0	0	0	0	0	0
Supplementary heater															
Rated heat output (*)		P _{sup}	kW	0.9	1.1	1.0	1.0	2.1	2.2	1.0	1.1	1.0	1.1	2.2	2.2
Type of energy input				-	-	-	-	-	-	-	-	-	-	-	-
Other items															
Capacity control			Remote Controller												
Sound power level (***)		LWA	dB	56		57		59		54		54		54	
Emissions of nitrogen oxides		NO _x	mg/kWh	Not applicable											
Rated air flow rate		-	m³/h	2119	2561	2700	2119	4492	3614	2119	2119	1865	2119	2489	3614
Contact details				CHOFU SEISAKUSHO CO.,LTD 2-1 CHOFU OHGIMACHI,SHIMONOSEKI CITY, YAMAGUCHI PREF.,JAPAN											

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup (T_j).

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0.9.

(***) Test condition : A7W55

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