

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

Model		AEYC- 1250ZU3-CH		AEYC- 1651ZU3-CH		AEYC- 1050ZU3-CH1		AEYC- 1451ZU3-CH1	
Temperature application	°C	55	35	55	35	55	35	55	35
Seasonal space heating energy efficiency class		A++	A+++	A++	A+++	A++	A+++	A++	A+++
Rated heat output	kW	11	11	13	13	11	11	13	13
Seasonal space heating energy efficiency	%	138	182	134	181	137	179	133	184
Annual energy consumption	kWh	6155	4925	7849	5620	6293	4888	8028	5569
Specific precautions in assembled, installed or maintained		Refer to the installation and operating manuals.							
Rated heat output	Colder climate	kW	–	–	–	–	–	–	–
	Warmer climate	kW	11	11	13	13	11	13	13
Annual energy consumption	Colder climate	kWh	–	–	–	–	–	–	–
	Warmer climate	kWh	3288	2372	3909	2849	3347	2284	3979
Seasonal space heating energy efficiency	Colder climate	%	–	–	–	–	–	–	–
	Warmer climate	%	176	247	178	241	176	252	178
Sound power level(A7W55)	Outdoor unit	dB	59		61		54		58

Specifications

Model			AEYC- 1250ZU3-CH		AEYC- 1651ZU3-CH		AEYC- 1050ZU3-CH1		AEYC- 1451ZU3-CH1		
Type			Heating and Cooling Monobloc Type								
Power source			3N ~ 50 Hz 400 V								
Max. current		A	8.0		14.0		8.0		14.0		
Max. pressure		MPa	3.5								
Refrigerant type			R290								
Refrigerant quantity			kg	1.15		1.63		1.15		1.63	
Dimension (H × W × D) & weight (NET)		Outdoor unit	mm	1,418 × 1,000 × 330		1,692 × 1,128 × 438		1,418 × 1,000 × 330		1,692 × 1,128 × 438	
			kg	127		159		127		159	
Outdoor temperature range		Heating	°C	-25 to 45							
		Cooling	°C	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.

Model			AEYC- 1250ZU3-CH		AEYC- 1651ZU3-CH		AEYC- 1050ZU3-CH1		AEYC- 1451ZU3-CH1	
Air-to-water heat pump			YES		YES		YES		YES	
Water-to-water heat pump			NO		NO		NO		NO	
Brine-to-water heat pump			NO		NO		NO		NO	
Low-temperature heat pump			NO		NO		NO		NO	
Equipped with a supplementary heater			NO		NO		NO		NO	
Heat pump combination heater			NO		NO		NO		NO	
Temperature application		°C	55	35	55	35	55	35	55	35
Rated heat output (*)	P _{rated}	kW	11	11	13	13	11	11	13	13
Seasonal space heating energy efficiency	η _s	%	138	182	134	181	137	179	133	184
Declared capacity for heating for part load at outdoor temperature T _j										
T _j = -7° C	P _{dh}	kW	9.31	9.74	11.51	11.07	9.45	9.51	11.69	11.15
T _j = +2° C	P _{dh}	kW	5.90	6.21	7.36	6.23	5.95	5.86	7.42	6.38
T _j = +7° C	P _{dh}	kW	3.50	3.76	4.64	4.68	3.35	3.57	4.38	4.45
T _j = +12° C	P _{dh}	kW	2.95	3.31	2.34	2.97	2.92	3.21	2.31	2.88
T _j = bivalent temperature	P _{dh}	kW	9.31	9.74	11.51	11.07	9.45	9.51	11.69	11.15
T _j = operation limit temperature	P _{dh}	kW	8.48	8.86	10.55	10.35	8.58	8.59	10.66	10.03
T _j = -15° C (if TOL < -20° C)	P _{dh}	kW	—	—	—	—	—	—	—	—
Bivalent temperature	T _{biv}	°C	-7	-7	-7	-7	-7	-7	-7	-7
Cycling interval capacity for heating	P _{cyh}	kW	Not applicable							
Degradation co-efficient (**)	C _{dh}	—	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	—	2.15	2.87	2.13	2.64	2.20	2.83	2.18	2.68
T _j = +2° C	COP _d	—	3.36	4.28	3.26	4.53	3.38	4.19	3.28	4.68
T _j = +7° C	COP _d	—	4.88	6.73	4.81	6.43	4.59	6.64	4.53	6.35
T _j = +12° C	COP _d	—	6.56	8.75	5.30	7.62	6.54	9.04	5.28	7.87
T _j = bivalent temperature	COP _d	—	2.15	2.87	2.13	2.64	2.20	2.83	2.18	2.68
T _j = operation limit temperature COP _d	COP _d	—	1.89	2.59	1.90	2.43	1.93	2.54	1.94	2.39
T _j = -15° C (if TOL < -20° C)	COP _d	—	—	—	—	—	—	—	—	—
Operation limit temperature	TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10
Cycling interval efficiency	COP _{cyh}	—	Not applicable							
Heating water operating limit temperature	WTOL	°C	75	75	75	75	75	75	75	75
Power consumption in modes other than active mode										
Off mode	POFF	kW	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Thermostat-off mode	PTO	kW	0.020	0.032	0.022	0.072	0.020	0.032	0.022	0.072
Standby mode	PSB	kW	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Crankcase heater mode	PCK	kW	0	0	0	0	0	0	0	0
Supplementary heater										
Rated heat output (*)	P _{sup}	kW	2.0	2.1	2.5	2.2	2.1	2.2	2.6	2.6
Type of energy input			—	—	—	—	—	—	—	—
Other items										
Capacity control			Remote Controller							
Sound power level (***)	LWA	dB	59		61		54		58	
Emissions of nitrogen oxides	NO _x	mg/kWh	Not applicable							
Rated air flow rate	—	m ³ /h	3614	4492	7123	7123	2489	3614	5788	7123
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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