

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

Model		AEYC-0643XU-CH		AEYC-1043XU-CH		AEYC-1242XU-CH		AEYC-1643XU-CH	
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	5	4	7	8	9	10	12	13
Seasonal space heating energy efficiency	%	125	185	125	190	127	184	126	176
Annual energy consumption	kWh	3011	1928	4598	3342	5901	4332	7496	5946
Specific precautions in assembled, installed or maintained		Refer to the installation and operating manuals.							
Rated heat output	Colder climate	kW	-	-	-	-	-	-	-
	Warmer climate	kW	4	5	6	7	7	9	11
Annual energy consumption	Colder climate	kWh	-	-	-	-	-	-	-
	Warmer climate	kWh	1436	1016	2128	1551	2343	1767	3360
Seasonal space heating energy efficiency	Colder climate	%	-	-	-	-	-	-	-
	Warmer climate	%	140	233	154	243	157	266	165
Sound power level	Outdoor unit	dB	62	60	66	64	60	62	62

### Specifications

Model		AEYC-0643XU-CH		AEYC-1043XU-CH		AEYC-1242XU-CH		AEYC-1643XU-CH	
Type		Heating and Cooling Monobloc Type							
Power source		1Ø ~230 V 50 Hz							
Max. current	A	11.2	17.5	23.0	25.3				
Max. pressure	MPa	4.2							
Refrigerant (R32)	kg	0.80	1.55	2.20	2.80				
Dimension (H × W × D) & weight (NET)	Outdoor unit	mm	675 × 825 × 300	882 × 850 × 330	1418 × 1000 × 330				
		kg	50	69	98	116			
Outdoor temperature range	Heating	°C	-20 to 43						
	Cooling	°C	8 to 43						

#### ● Acoustic Noise Information:

The maximum sound power level is less than 70 dB (A) for outdoor unit.  
According to IEC 704-1 and ISO 3744.

- 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.

#### Refrigerant instructions

##### ⚠ Caution

Do not vent R32 into the atmosphere:

R32 is a fluorinated greenhouse gas, covered by the Kyoto Protocol, with a Global Warming Potential (GWP)=675

This unit is a hermetically sealed system.

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Product information is based on the average climate condition and medium-temperature.

Model			AEYC-0643XU-CH		AEYC-1043XU-CH		AEYC-1242XU-CH		AEYC-1643XU-CH			
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		
Rated heat output (*)		P <sub>rated</sub>	kW		5	4	7	8	9	10	12	13
Seasonal space heating energy efficiency		η <sub>s</sub>	%		125	185	125	190	127	184	126	176
Declared capacity for heating for part load at outdoor temperature T <sub>j</sub>												
T <sub>j</sub> = -7° C			P <sub>dh</sub>	kW	4.10	3.86	6.29	6.88	8.16	8.61	10.26	11.37
T <sub>j</sub> = +2° C			P <sub>dh</sub>	kW	2.50	2.46	3.87	4.29	5.21	5.33	5.86	6.88
T <sub>j</sub> = +7° C			P <sub>dh</sub>	kW	1.57	1.57	2.48	2.62	3.35	3.46	4.15	4.38
T <sub>j</sub> = +12° C			P <sub>dh</sub>	kW	1.23	1.54	2.88	2.99	3.28	3.28	4.60	5.40
T <sub>j</sub> = bivalent temperature			P <sub>dh</sub>	kW	4.10	3.86	6.29	6.88	8.16	8.61	10.26	11.37
T <sub>j</sub> = operation limit temperature			P <sub>dh</sub>	kW	3.51	3.54	5.65	6.87	6.79	8.65	9.03	12.00
T <sub>j</sub> = -15° C (if TOL < -20° C)			P <sub>dh</sub>	kW	-	-	-	-	-	-	-	-
Bivalent temperature			T <sub>biv</sub>	°C	-7	-7	-7	-7	-7	-7	-7	-7
Cycling interval capacity for heating			P <sub>cyh</sub>	kW	Not applicable							
Degradation co-efficient (**)			C <sub>dh</sub>	-	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 <sub>j</sub>												
T <sub>j</sub> = -7° C			COP <sub>d</sub>	-	1.79	2.60	1.83	2.72	1.77	2.64	1.92	2.77
T <sub>j</sub> = +2° C			COP <sub>d</sub>	-	3.12	4.59	3.03	4.65	3.00	4.17	3.00	4.08
T <sub>j</sub> = +7° C			COP <sub>d</sub>	-	4.53	7.05	4.69	7.20	5.21	8.05	4.65	6.85
T <sub>j</sub> = +12° C			COP <sub>d</sub>	-	6.53	9.38	7.53	9.37	8.03	9.84	7.16	9.19
T <sub>j</sub> = bivalent temperature			COP <sub>d</sub>	-	1.79	2.60	1.83	2.72	1.77	2.64	1.92	2.77
T <sub>j</sub> = operation limit temperature			COP <sub>d</sub>	-	1.51	2.39	1.59	2.54	1.57	2.57	1.69	2.54
T <sub>j</sub> = -15° C (if TOL < -20° C)			COP <sub>d</sub>	-	-	-	-	-	-	-	-	-
Operation limit temperature			TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10
Cycling interval efficiency			COP <sub>cyh</sub>	-	Not applicable							
Heating water operating limit temperature			WTOL	°C	60	60	60	60	60	60	60	60
Power consumption in modes other than active mode												
Off mode			POFF	kW	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006
Thermostat-off mode			PTO	kW	0.109	0.105	0.094	0.087	0.136	0.165	0.160	0.189
Standby mode			PSB	kW	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Crankcase heater mode			PCK	kW	0	0	0	0	0	0	0	0
Supplementary heater												
Rated heat output (*)			P <sub>sup</sub>	kW	1.2	0.8	1.5	0.9	2.5	1.1	2.6	0.9
Type of energy input			-									
Other items												
Capacity control			Remote Controller									
Sound power level			LWA	dB	62	60	66	64	60	62	62	62
Emissions of nitrogen oxides			NO <sub>x</sub>	mg/kWh	Not applicable							
Rated air flow rate			-	m <sup>3</sup> /h	2082	2082	2928	2928	5288	5288	4464	4464
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<sub>rated</sub> is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup (T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0.9.

**CHOFU SEISAKUSHO CO.,LTD.**

2-1 CHOFU OHGIMACHI, SHIMONOSEKI C.,  
YAMAGUCHI PREF., 752-8555, JAPAN