

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

Model			AEYC-1642XU3-CH	
Temperature application	°C		55	35
Seasonal space heating energy efficiency class			A++	A+++
Rated heat output	kW		13	13
Seasonal space heating energy efficiency	%		131	177
Annual energy consumption	kWh		7415	5947
Specific precautions in assembled, installed or maintained			Refer to the installation and operating manuals.	
Rated heat output	Colder climate	kW	–	–
	Warmer climate	kW	11	14
Annual energy consumption	Colder climate	kWh	–	–
	Warmer climate	kWh	3461	2979
Seasonal space heating energy efficiency	Colder climate	%	–	–
	Warmer climate	%	172	241
Sound power level	Outdoor unit	dB	62	62

Specifications

Model			AEYC-1642XU3-CH	
Type			Heating and Cooling Monobloc Type	
Power source			3N~ 50 Hz 400 V	
Max. current	A		9.0	
Max. pressure	MPa		4.1	
Refrigerant (R32)	kg		2.80	
Dimension (H × W × D) & weight (NET)	Outdoor unit	mm	1418 × 1000 × 330	
		kg	120	
Outdoor temperature range	Heating	°C	-20 to 43	
	Cooling	°C	8 to 43	

● Acoustic Noise Information:

The maximum sound pressure level is less than 70 dB (A) for both hydraulic unit and 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 heat exchanger 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.

Product information according to Commission Delegated Regulation (EU) 813/2013

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

Model			AEYC-1642XU3-CH	
Air-to-water heat pump			YES	
Water-to-water heat pump			NO	
Brine-to-water heat pump			NO	
Low-temperature heat pump			NO	
Equipped with a supplementary heater			NO	
Heat pump combination heater			NO	
Temperature application		°C	55	35
Rated heat output (*)	P _{rated}	kW	13	13
Seasonal space heating energy efficiency	η_s	%	131	177
Declared capacity for heating for part load at outdoor temperature T _j				
T _j = -7° C	P _{dh}	kW	11.17	11.83
T _j = +2° C	P _{dh}	kW	6.37	6.80
T _j = +7° C	P _{dh}	kW	4.06	4.32
T _j = +12° C	P _{dh}	kW	4.85	5.35
T _j = bivalent temperature	P _{dh}	kW	11.17	11.83
T _j = operation limit temperature	P _{dh}	kW	9.69	11.92
T _j = -15° C (if TOL < -20° C)	P _{dh}	kW	—	—
Bivalent temperature	T _{biv}	°C	-7	-7
Cycling interval capacity for heating	P _{cyh}	kW	Not applicable	
Degradation co-efficient (**)	C _{dh}	—	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	—	2.05	2.87
T _j = +2° C	COP _d	—	3.19	3.87
T _j = +7° C	COP _d	—	4.86	6.84
T _j = +12° C	COP _d	—	7.68	8.81
T _j = bivalent temperature	COP _d	—	2.05	2.87
T _j = operation limit temperature	COP _d	—	1.75	2.58
T _j = -15° C (if TOL < -20° C)	COP _d	—	—	—
Operation limit temperature	TOL	°C	-10	-10
Cycling interval efficiency	COP _{cyh}	—	Not applicable	
Heating water operating limit temperature	WTOL	°C	60	60
Power consumption in modes other than active mode				
Off mode	POFF	kW	0.012	0.012
Thermostat-off mode	PTO	kW	0.152	0.213
Standby mode	PSB	kW	0.030	0.030
Crankcase heater mode	PCK	kW	0	0
Supplementary heater				
Rated heat output (*)	P _{sup}	kW	3.0	1.5
Type of energy input			—	—
Other items				
Capacity control			Remote Controller	
Sound power level	LWA	dB	62	62
Emissions of nitrogen oxides	NO _x	mg/kWh	Not applicable	
Rated air flow rate	—	m ³ /h	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_{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.

CHOFU SEISAKUSHO CO.,LTD.

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