

2. Specifications

2-1. Stand-alone

Nominal system capacity				HP	8	10	12
Model name					AJ*072GALBH	AJ*090GALBH	AJ*108GALBH
Power supply				3N 400 V ~ 50 Hz			
Available voltage range				342—456 V			
Capacity	Cooling	Rated	kW	22.4	28.0	33.5	
			Btu/h	76,400	95,500	114,300	
		Heating	Rated (Nominal)	kW	22.4	28.0	33.5
	Btu/h			76,400	95,500	114,300	
	Maximum		kW	25.0	31.5	37.5	
				Btu/h	85,300	107,400	127,900
Input power	Cooling	Rated	kW	5.45	7.11	9.75	
			Btu/h	18,500	24,200	33,300	
	Heating	Rated (Nominal)	kW	4.73	6.00	7.89	
Btu/h			16,100	20,400	27,000		
Maximum		kW	5.70	7.33	9.62		
			Btu/h	19,300	25,000	32,800	
Current	Cooling	Rated	A	9.1	11.4	15.3	
	Heating	Rated (Nominal)	A	7.6	9.5	12.1	
Power factor	Cooling		%	86	90	92	
	Heating		%	86	90	92	
EER	Cooling			4.11	3.94	3.44	
COP	Heating	Rated (Nominal)	W/W	4.74	4.67	4.25	
		Maximum	W/W	4.39	4.30	3.90	
Fan	Airflow rate	Cooling	HIGH	11,100 (3,084)			
		Heating	HIGH	11,100 (3,084)			
	External static pressure (Max.)		Pa	80			
	Type × Q'ty			Propeller fan × 1			
	Motor	Type × Q'ty		DC motor × 1			
Sound pressure level*	Cooling		dB (A)	56	58	59	
	Heating		dB (A)	58	59	62	
Sound power level	Cooling		dB (A)	75	76	79	
	Heating		dB (A)	76	77	82	
Heat exchanger type	Length		mm	1,760			
	Fin pitch		mm	1.45			
	Rows × Stages				3 × 60		
	Face area		m ²	2.2			
	Pipe type (Material)				Grooved H-pin (Copper)		
	Fin	Type			Corrugate (Aluminum)		
		Surface treatment			Corrosion resistance (Blue fin)		
Compressor	Type × Q'ty			Rotary (inv) × 1			
	Displacement		cm ³	65.3			
	Motor output		kW	7.5			
	Crankcase heater		W	35 × 2			
Refrigerant	Type (Global Warming Potential)			R410A (2088)			
	Charge		kg	11.8			
Refrigerant oil	Type			POE			
	Amount		cm ³	3,000			
Enclosure	Material			Painted galvanized steel			
	Color			Beige Approximate color of Munsell 10YR 7.5/1.0NN			
Dimensions (H × W × D)	Net		mm	1,690 × 930 × 765			
	Gross		mm	1,811 × 1,002 × 847			
Weight	Net		kg	262			
	Gross		kg	285			
Connection pipe	Pipe diameter	Liquid	mm (in)	Ø 12.70 (Ø 1/2)			
		Discharge gas	mm (in)	Ø 15.88 (Ø 5/8)	Ø 19.05 (Ø 3/4)		
		Suction gas	mm (in)	Ø 22.22 (Ø 7/8)		Ø 28.58 (Ø 1-1/8)	
	Method	Liquid		Brazing			
		Discharge gas		Brazing			
		Suction gas		Brazing			
	Max. length		m	165			
Max. height difference		m	50/40 (Outdoor unit: Higher/Lower)				
Operation temperature range	Cooling		°CDB	-10 to 46			
	Heating		°CDB	-20 to 21			
	Cooling/Heating simultaneous		°CDB	-10 to 21			
Defrost method				Reversed cycle			
Compressor capacity control (Steps/Range)				951 steps/20 to 115 rps			
Connectable indoor units number	Maximum			17	21	26	
	Minimum			2			
NOTES:							
<ul style="list-style-type: none"> • Specifications are based on the following conditions: <ul style="list-style-type: none"> – Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB. – Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB. – Pipe length: 7.5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.) • This data is based on following standard: EN14511, EN12102. • Protective function might work when using it outside the operation range. • *: Sound pressure level: <ul style="list-style-type: none"> – Measured values in manufacturer's anechoic chamber. – Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here. 							