

2. Specifications

2-1. Stand-alone

				1 Phase model				
Nominal system capacity				HP	4	5	6	
Model name					AJ*040LBDH	AJ*045LBDH	AJ*054LBDH	
Power supply				230 V ~ 50 Hz				
Available voltage range				198~264 V				
Capacity	Cooling	Rated	kW	12.1	14.0	15.5		
			Btu/h	41,200	47,700	52,800		
		Heating	Rated (Nominal)	kW	12.1	14.0	15.5	
	Btu/h			41,200	47,700	52,800		
	Maximum		kW	13.6	16.0	18.0		
				Btu/h	46,400	54,500	61,400	
Input power	Cooling	Rated	kW	3.44	4.15	4.96		
			Btu/h	11,700	13,900	16,600		
	Heating	Rated (Nominal)	kW	3.14	3.60	4.17		
Btu/h			10,600	12,200	14,100			
		Maximum	kW	3.80	4.50	5.41		
			Btu/h	12,800	15,100	18,100		
Current	Cooling	Rated	A	15.1	18.2	21.8		
	Heating	Rated (Nominal)	A	13.8	15.8	18.3		
Power factor	Cooling			99				
	Heating			99				
EER	Cooling			3.51	3.37	3.12		
COP	Heating	Rated (Nominal)	W/W	3.85	3.88	3.71		
			Maximum	3.57	3.55	3.32		
Fan	Airflow rate	Cooling	HIGH	m ³ /h (l/s)	6,200 (1,722)		6,600 (1,833)	
		Heating			7,000 (1,945)			
	External static pressure (Max.)				Pa			
	Type × Q'ty				Propeller fan × 2			
	Motor	Type × Q'ty			DC motor × 2			
Sound pressure level*	Cooling			dB (A)	50	52	53	
	Heating			dB (A)	52	55	56	
Sound power level	Cooling			dB (A)	65	66	67	
	Heating			dB (A)	67	69		
Heat exchanger type	Length			mm	935			
	Fin pitch			mm	1.45			
	Rows × Stages				3 × 62			
	Face area			m ²	1.22			
	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	42.3			
	Motor output			kW	3.75			
	Crankcase heater			W	25			
Refrigerant	Type (Global Warming Potential)				R410A (2088)			
	Charge			kg	4.8	5.3		
Refrigerant oil	Type				VG74			
	Amount			cm ³	1,550			
Enclosure	Material				Painted galvanized steel			
	Color				Beige			
Dimensions (H × W × D)	Net				1,334 × 970 × 370			
	Gross				1,506 × 1,064 × 478			
Weight	Net				kg	117	119	
	Gross				kg	129	131	
Connection pipe	Pipe diameter	Liquid		mm (in)	Ø 9.52 (Ø 3/8)			
		Suction gas			Ø 15.88 (Ø 5/8)		Ø 19.05 (Ø 3/4)	
	Method	Liquid			Flare			
		Suction gas			Flare			
	Between outdoor unit and the farthest indoor unit				m	120		
	Total pipe length				m	180		
Max. height difference					50/40 (Outdoor unit: Higher/Lower)			
Operation temperature range	Cooling			°CDB	-5 to 46			
	Heating			°CDB	-20 to 21			
Defrost method				Reversed cycle				
Compressor capacity control (Steps/Range)				81 steps/20 to 100 rps				
Connectable indoor units number	Maximum				11	12	14	
	Minimum				1			

NOTES:

- Specifications are based on the following conditions:
 - 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:
 - 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.