2. Specifications

2-1. Stand-alone

1 Phase model							
Nominal system capacity				**HP**	**4**	**5**	**6**
Model name					**AJ∗040LBLDH**	**AJ∗045LBLDH**	**AJ∗054LBLDH**
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
		Heating	Rated (Nominal)		3.14	3.60	4.17
			Maximum		3.80	4.50	5.41
Current		Cooling	Rated	A	15.1	18.2	21.8
		Heating	Rated (Nominal)		13.8	15.8	18.3
Power factor		Cooling		%	99		
		Heating			99		
EER		Cooling		W/W	3.51	3.37	3.12
COP		Heating	Rated (Nominal)		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)	7,000 (1,945)
		Heating					
	External static pressure (Max.)			Pa	30		
	Type × Q'ty				Propeller fan × 2		
	Motor	Type × Q'ty			DC motor × 2		
		Motor output		W	100		
Sound pressure level*		Cooling		dB (A)	50	52	53
		Heating			52	55	56
Sound power level		Cooling		dB (A)	65	66	67
		Heating			67	69	
Heat exchanger type		Length		mm	935		
		Fin pitch			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 Approximate color of Munsell 10YR 7.5/1.0NN		
Dimensions (H × W × D)		Net		mm	1,334 × 970 × 370		
		Gross			1,506 × 1,064 × 478		
Weight		Net		kg	117		119
		Gross			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			180		
		Max. height difference			50/40 (Outdoor unit: Higher/Lower)		
Operation temperature range		Cooling		°CDB	-5 to 46		
		Heating			-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.