

2. Specification

Multi-position AHU

Model Name		Indoor Unit		AC036DNZDCG/AA	AC048DNZDCG/AA	
US Code		Indoor Unit		CNG36ZDD	CNG48ZDD	
System		Outdoor Unit		CXG36ADD	CXG48ADD	
System	Mode			-	Heat Pump	
	Performance	Capacity	Cooling (Min/Std/Max)	kW 2.9 / 10.5 / 10.8 Btu/h 10,000 / 36,000 / 37,000 US RT 0.83 / 3.00 / 3.08	3.6 / 14.0 / 15.8 12,500 / 48,000 / 54,000 1.04 / 4.00 / 4.50	
			Heating (Min/Std/Max)	kW 2.9 / 11.7 / 15.2 Btu/h 10,000 / 40,000 / 52,000 US RT 0.83 / 3.33 / 4.33	3.2 / 15.8 / 19.3 11,000 / 54,000 / 66,000 0.92 / 4.50 / 5.50	
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.94 / 3.78 / 5.25	0.97 / 5.00 / 6.69
			Heating (Min/Std/Max)		0.80 / 3.90 / 5.95	0.82 / 5.27 / 7.67
		Current Input	Cooling (Min/Std/Max)	A	4.9 / 16.9 / 23.1	5.0 / 22.4 / 29.4
			Heating (Min/Std/Max)		4.0 / 17.4 / 24.0	4.1 / 23.6 / 32.0
		Current	MCA	A	26.7	36.1
			MOP	A	30	40
	Efficiency	EER2	Cooling	-	2.78	2.81
			Cooling (US)	(Btu/h)/W	9.5	9.6
		COP	Heating	W/W	3	3
		SEER2 (Cooling Energy Grade)		-	16	17.5
		HSPF2 (Heating Energy Grade)		-	8.6	8.8
	Pipe Connections	Liquid Pipe		Type	Flare	Flare
				Φ, mm(inch)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe		Type	Flare	Flare
				Φ, mm(inch)	15.88 (5/8)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Pipe Length (ODU-IDU)	Standard	m (ft)	7.5 (24.6)	7.5 (24.6)
			Max.	m (ft)	50 (164.0)	75 (246.0)
			Elevation	m (ft)	30 (98.4)	30 (98.4)
			Chargeless	m (ft)	7.5 (24.6)	7.5 (24.6)
	Wiring Connections	Communication	Min.	mm ²	0.75	0.75
			Remark	AWG	18	18
				-	F1,F2	F1,F2
	Refrigerant	Type		-	R32	R32
	Factory Charging		kg	2.7	2.9	
			lbs	5.95	6.39	
Indoor Unit	Power Supply		Φ,#,V,Hz	1, 2, 208-230, 60	1, 2, 208-230, 60	
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	
		Tube	-	Cu	Cu	
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	
Fan	Type		-	Sirocco	Sirocco	
	Quantity		EA	1	1	
	Air Flow Rate	Cooling (H/M/L)	m ³ /min ft ³ /min	34.8 / 30.4 / 25.5 1,229 / 1,074 / 901	42.3 / 39.3 / 35.6 1,494 / 1,388 / 1,257	
		Heating (H/M/L)	m ³ /min ft ³ /min	34.8 / 30.4 / 25.5 1,229 / 1,074 / 901	42.3 / 39.3 / 35.6 1,494 / 1,388 / 1,257	
	External Static Pressure	Min/Std/Max	In Wg	0 / 0.58 / 1.0	0 / 0.58 / 1.0	
Fan Motor	Type		-	ECM	ECM	
	Output		W x n	410 x 1	590 x 1	
Drain	Drain Pipe		Φ, mm	FPT 3/4	FPT 3/4	
Sound Level	Sound Pressure Level	H/M/L		45 / 42 / 39	47 / 45 / 43	
	Sound Power Level			63	65	

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		Outdoor Unit		AC036DXADCG/AA	AC048DXADCG/AA	
US Code		Indoor Unit		CNG36ZDD	CNG48ZDD	
		Outdoor Unit		CXG36ADD	CXG48ADD	
Indoor Unit	External Dimension	Net Weight		kg(lbs)	56.0 (124.5)	73.5 (162.0)
		Shipping Weight		kg(lbs)	60.5 (133.4)	79.0 (174.2)
		Net Dimensions (WxHxD)		mm	533 x 1,219 x 533	622 x 1,492 x 554
				inch	20.98 x 47.99 x 20.98	24.49 x 58.74 x 21.81
		Shipping Dimensions (WxHxD)		mm	590 x 1,305 x 665	676 x 1,588 x 695
	inch			23.23 x 51.38 x 26.18	26.61 x 62.52 x 27.36	
	Casing	Material		-	Steel	Steel
	Control System	Infrared remote control		-	AR-CH01U	AR-CH01U
		Wired remote control		-	MWR-WG01UN	MWR-WG01UN
	Drain Pump	Drain Pump		-	-	-
	Max.lifting Height / Displacement		in / gal/h	-	-	
Additional	Air Filter (option)		-	VFB-2 (MERV 8)	VFB-3 (MERV 8)	
Outdoor Unit	Power Supply		Φ,#,V,HZ	1, 2, 208-230, 60	1, 2, 208-230, 60	
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model		-	UB5TN5450FJXSG	UB5TN5450FJXSG
		Type		-	Twin Rotary	Twin Rotary
		Output		kW	4.25	4.25
		Oil	Type	-	POE	POE
	Initial Charge		cc (fl oz)	1,700	1,700	
	Fan	Type		-	Propeller	Propellar
		Discharge direction		-	Side	Side
		Quantity		EA	1	2
		Air Flow Rate		m ³ /min	76	100
	ft ³ /min			2,684	3,532	
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 2
Sound Level	Sound Pressure Level	Cooling	dB(A)	52	56	
		Heating	dB(A)	54	58	
	Sound Power Level		dB(A)	69	72	
External Dimension	Net Weight		kg(lbs)	76.5 (168.7)	86.5 (190.7)	
	Shipping Weight		kg(lbs)	81.5 (179.7)	96.5 (212.7)	
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,210 x 330	
			inch	37.01 x 39.29 x 12.99	37.01 x 47.64 x 12.99	
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,388 x 426	
inch			39.17 x 43.15 x 16.77	39.17 x 54.65 x 16.77		
Casing	Material	Body	-	Steel	Steel	
Operating Temp. Range	Cooling		°C (°F)	-18~50 (0~122)	-18~50 (0~122)	
	Heating		°C (°F)	-20~24 (-4~75)	-20~24 (-4~75)	

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature : 80°F(26.7°C) DB, 67°F(19.4°C) WB, Outdoor temperature : 95°F(35°C) DB, 75°F(23.9°C) WB
 - Heating : Indoor temperature : 70°F(21.1°C) DB, 60°F(15.6°C) WB, Outdoor temperature : 47°F(8.3°C) DB, 43°F(6.1°C) WB
 - Equivalent refrigerant piping length 5m(16.4ft), Level differences : 0m(0ft))
 - 2) Select wire size based on the value of MCA
 - 3) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level / Reference acoustic pressure 0 dB = 20uPa
 - 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level / Reference power : 1pW / Measured according to ISO 3741
 - 5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.