

SAMSUNG

Smart Airconditioning Solutions

Commercial Air Conditioners R410 16kW

MSP Duct
16kW



WindFree™
4-Way Cassette
16kW



Underceiling
16kW



SAMSUNG 16kW – CAC Range

Specifications



Model Code		AC160BN4DEH/AF	AC160BNCDEH/AF	AC160BNMDEH/AF
Features	Type	16k-3Ø-4WAY	16kW-3Ø-Ceiling	16kW-3Ø-Duct MSP
Model Name	Indoor Unit	AC160BN4DEH/AF	AC160BNCDEH/AF	AC160BNMDEH/AF
	Outdoor Unit	AC160BXADGH/AF	AC160BXADGH/AF	AC160BXADGH/AF
System	Mode	Heat Pump	Heat pump	Heat pump
Capacity	Cooling [kW]	3.8/15.5/16.0 kW	3.8/15.5/16.0 kW	3.8/15.5/16.0 kW
	Heating [kW]	3.0/16.5/20.0 kW	3.0/16.5/20.0 kW	3.0/16.5/20.0 kW
Power Input	Cooling 1)	0.75/6.2/6.8 kW	0.75/6.2/6.8 kW	0.75/6.5/6.8 kW
	Heating 2)	0.6/5.1/7.8 kW	0.6/5.0/7.2 kW	0.6/5.1/8 kW
Current Input	Cooling	1.5/10.0/10.5 A	1.5/10.0/10.5 A	1.5/10.0/10.5 A
	Heating	1.5/8.0/12.5 A	1.5/8.0/12.5 A	1.5/8.0/12.5 A
Power	MCA	13.5 A	14.0 A	14.2 A
	MFA	15.0 A	15.4 A	15.7 A
Energy Efficiency	EER (Cooling) [W/W]	2.50	2.50	2.38
	COP (Heating) [W/W]	3.24	3.30	3.24
Piping Connections	Liquid Pipe (Φ, mm)	9.52 mm		
	Gas Pipe (Φ, mm)	19.05 mm		
	Installation Max. Length [m]	75 m		
	Installation Max. Height [m]	30 m		
Field Wiring	Transmission Cable	0.75~1.5 mm ²		
Refrigerant	Type	R410A		
	Factory Charging (kg)	3.40 kg		
	Control Method	EEV		
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50		
Fan	Type	Turbo	Sirocco Fan	Sirocco Fan
	External Static Pressure (Min / Std / Max) [mmAq]			0/5.2/15.0 mmAq
	Air Flow Rate (High / Mid / Low) [m ³ /min]	34.0 / 27.5 / 21.5 CMM	34.0 / 27.0 / 23.0 CMM	35.0 / 30.0 / 26.0 CMM
	Motor (Output) [W]	97 W	244 W	244 W
	Number of Unit (EA)	1 EA	4 EA	3 EA
Drain	Drain Pipe (Φ,mm)	VP25 (OD 32 / ID 25) mm	VP25 (OD 32,ID 25) mm	VP25 (OD 32,ID 25) mm
Sound	Sound Pressure Level (High / Mid / Low) [dB(A)]	45/41/36 dBA	46/42/38 dBA	41/37/33 dBA
	Sound Power Level (Cooling) [dB(A)]	- dBA	- dBA	- dBA
External Dimension (Indoor Unit)	Net Weight (kg)	20.0 kg	42.0 kg	38.5 kg
	Shipping Weight (kg)	23.5 kg	48.0 kg	44.5 kg
	Net Dimensions (WxHxD) (mm)	840*288*840 mm	1650 x 235 x 675 mm	1300 x 300 x 700 mm
	Shipping Dimensions (WxHxD) (mm)	898*357*898 mm	1739 x 321 x 758 mm	1529 x 370 x 779 mm
Panel	Model Name	PC4NUFMAN		
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		3,4,380-415,50		
Compressor	Model Name	UG5TK1450FJX		
	Type	Twin BLDC Rotary		
	Output(kW)	4.19 kW		
	Oil Type	POE		
	Oil (Initial Charge) [cc]	1700 cc		
Fan (Outdoor Unit)	Air Flow Rate (Cooling) [m ³ /min]	110 CMM		
Sound (Outdoor Unit)	Sound Pressure (Cooling / Heating) [dB(A)]	57/59 dBA		
	Sound Power Level (Cooling) [dB(A)]	- dBA		
External Dimension (Outdoor Unit)	Net Weight (kg)	87.0 kg		
	Shipping Weight (kg)	97.0 kg		
	Net Dimensions (WxHxD) (mm)	940 x 1210 x 330 mm		
	Shipping Dimensions (WxHxD) (mm)	995 x 1388 x 426 mm		
Operating Temp. Range	Cooling (°C)	-15 ~ 50 °C		
	Heating (°C)	-20 ~ 24 °C		
Smart	WiFi Kit	Optional		
App Connectivity	SmartThings App Support	Yes		