

Climate 5000 Series

30K BTU Single Zone Light Commercial System

Wall Mounted IDU

Engineering
Submittal
Sheet



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Overview and Project Information



Project name	
Location	
Architect	
Engineer	
General contractor	
Reference #	

30K Btu Single Zone Light Commercial System - Wall Mounted IDU

Indoor part number		8733956182	
Indoor model number		BMS500-AAU030-1AHWXC	
Outdoor part number		8733956183	
Outdoor model number		BMS500-AAS030-1CSXRC	
Efficiency Data		AHRI 210/240 2017	AHRI 210/240 2023
SEER		20.10	20.10
EER		11.50	11.50
HSPF Region IV		10.8	9.0
HSPF Region V		9.4	6.9
COP(47F)		2.90	2.90
COP (5F)		1.75	1.92
Performance Data		AHRI 210/240 2017	AHRI 210/240 2023
Cooling	Capacity Range	8950~32600	8950~32600
	Rated Capacity	30000	30000
	Current	11.60	11.60
	Input Power	2610	2610
Heating	Capacity Range	12300~34100	12300~34100
	Rated Capacity (47F)	30000	30000
	Rated Capacity (5F)	17200	18600
	Current	13.44	13.44
	Input Power	3030	3030
Electrical Data			
Power supply (V / Ø / Hz)		208-230 / 1 / 60	
Min. circuit ampacity indoor/outdoor (A)		3.0 / 25.0	
Max. fuse indoor/outdoor (A)		15.0 / 30.0	
Compressor Data			
Type:		Rotary	
Refrigerant oil /oil charge (ml)		VG74 / 670	
Input (W)		2200	
Rated current (RLA/A)		15	
Operation Range			
ODU	Cooling (°F / °C)	5~122 / -15~50	
	Heating (°F / °C)	5~86 / -15~30	
IDU	Cooling (°F / °C)	60~90 / 16~32	
	Heating (°F / °C)	32~86 / 0~30	

Piping

Refrigerant precharge (oz/g)		97 / 2750
Length for precharge (ft/m)		25 / 7.6
Liquid side (in/mm)		3/8" / Ø9.52
Gas side (in/mm)		5/8" / Ø15.9
Additional charge per ft (oz/g)		0.32 / 30
Max. refrigerant pipe length (ft/m)		164 / 50
Max. difference in height (ft/m)		82 / 25
System Data		
Refrigerant type		R410A
Design pressure (PSIG)		550/340
Dehumidification (pts/hr)		6.75
IDU	Fan motor model	ZKFP-58-8-1-5
	Fan motor qty (ea)	1
	Fan motor input (W)	64
	Fan speed (RPM)	1050 / 882 / 798
	Air flow, H / M / L (CFM)	646.47 / 505.29 / 382.35
	Approx. Air Throw Range ft (m)	4.9(1.5)~33.5(10.2)
	Noise level, H / M / L (dB(A))	46 / 40.5 / 33
	Net weight (lbs / kg)	48.5 / 22.0
ODU	Gross weight (lbs / kg)	59.30 / 26.9
	Fan motor model	ZKFN-120-8-2
	Fan motor qty (ea)	1
	Fan motor input (W)	150.0
	Fan motor speed, H / L (RPM)	900 / 700 / 500
	Air flow, Max (CFM)	2235
	Noise level, Max (dB(A))	63
	Net weight (lbs / kg)	142.86 / 64.8
Accessories	Gross weight (lbs / kg)	152.56 / 69.2
	Accessories	
BMS-WT1-XXC (8733956179)		Wired Wall Thermostat
BMS-DRY-XXX (8733953129)		24V Interface
BMS-PK3-7X1 (8733951015)		25ft Lineset
BMS-PK3-5X1 (8733951018)		16ft Lineset
Standard Parts		
8-733-956-822		Remote Control

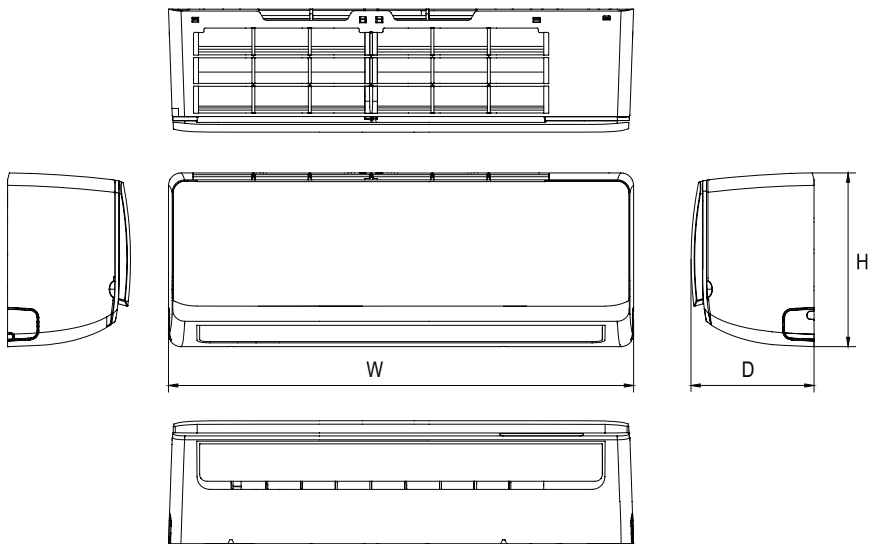
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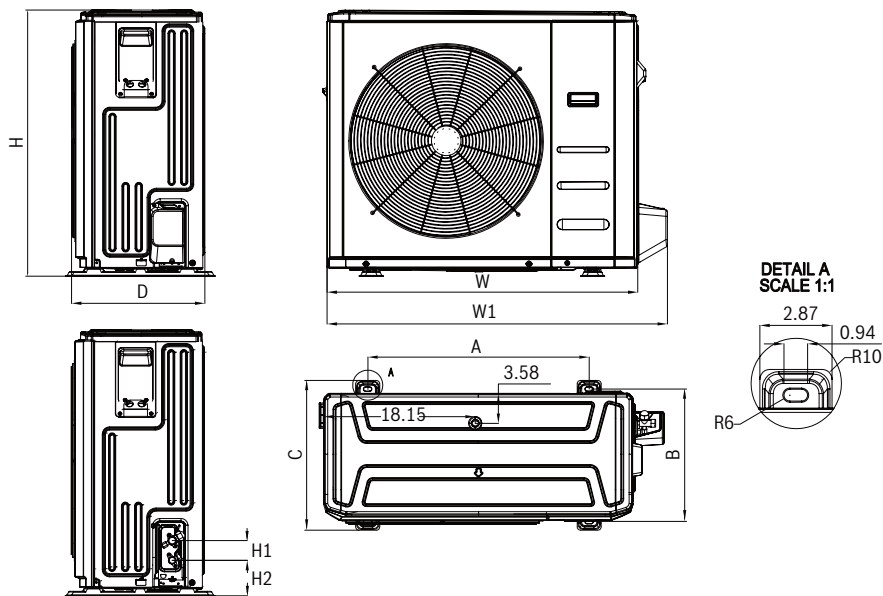
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Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU030-1AHWXC	46.9	11.0	14.6

Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)	W1 (in)	H1 (in)	H2 (in)	A (in)	B (in)	C (in)
BMS500-AAS030-1CSXRC	37.24	16.14	31.89	40.55	2.36	4.25	26.5	15.87	17.9