

Climate 5000 Series

36K BTU Multi Zone Regular System

Outdoor Unit

Engineering
Submittal
Sheet



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Overview and Project Information



Project Name

Location

Architect

Engineer

General Contractor

Reference #

Date

36K Btu Multi Zone Regular System Outdoor Unit

Outdoor part number		8733956201		
Outdoor model number		BMS500-AAM036-1CSXRC		
Efficiency Data		Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
SEER2		20	23.9	22
EER2		11.0	11.7	11.4
HSPF2 (Region IV)		9.2	9.5	9.4
HSPF2 (Region V)		7.0	7.1	7.1
COP(47°F)		3.66	3.5	3.6
COP(5°F)		1.68	1.80	1.74
Performance Data		Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
Cooling	Capacity Range (Btu/h)	8789-40288	8209-40555	8499-40422
	Rated Capacity (Btu/h)	36000	36000	36000
	Current (A)	14.80	13.60	14.20
	Input Power (W)	3273	3077	3175
Heating	Capacity Range (Btu/h)	6900-46624	8008-44632	7454-45628
	Rated Capacity (47°F)	37000	37000	37000
	Capacity (5°F)	24000	25200	24600
	Current (A)	13.00	13.00	13.00
	Input Power (W)	2962	3098	3030

Operation Range

ODU	Cooling (°F / °C)	-13~122 / -25~50
	Heating (°F / °C)	-13~86 / -25~30
Electrical Data		
Power supply (V / Ø / Hz)		208-230 / 1 / 60
Min. circuit ampacity (A)		25.0
Max. fuse (A)		40.0

Compressor Data

Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74/1000
Input (W)	2600
Rated current (A)	20.5

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Piping	
Refrigerant precharge (ft / m)	98 / 30
Refrigerant charge (oz / g)	134 / 3800
Liquid side (in / mm)	1/4" / Ø6.35 (Qty. 4)
Gas side (in / mm)	3/8" / Ø9.52 (Qty. 3) 1/2" / Ø12.7 (Qty. 1)
Additional charge per ft - liquid side (oz / g)	0.161 / 15
Additional charge per ft - gas side (oz / g)	0.322 / 30
Max. refrigerant pipe length (ft / m)	262 / 80
Max. length to one IDU (ft / m)	115 / 35
Max. height difference between IDU and ODU (ft / m)	49 / 15
Max. height difference between IDU's (ft / m)	33 / 10

System Data		
Refrigerant type		R410A
Design pressure (PSIG)		550/340
Dehumidification (pts/hr)		8.45
ODU	Fan motor model #	ZKFN-120-8-2
	Fan motor qty (ea)	1
	Fan motor input (W)	150.0
	Fan motor speed, H / M / L (RPM)	1000 / 900 / 750
	Air flow, max (CFM)	2147
	Noise level, max (dB(A))	63.0
	Net weight (lbs / kg)	169.09 / 76.7
IDU	Gross weight (lbs / kg)	181.44 / 82.3
	Minimum # of indoors	2
	Maximum # of indoors	4

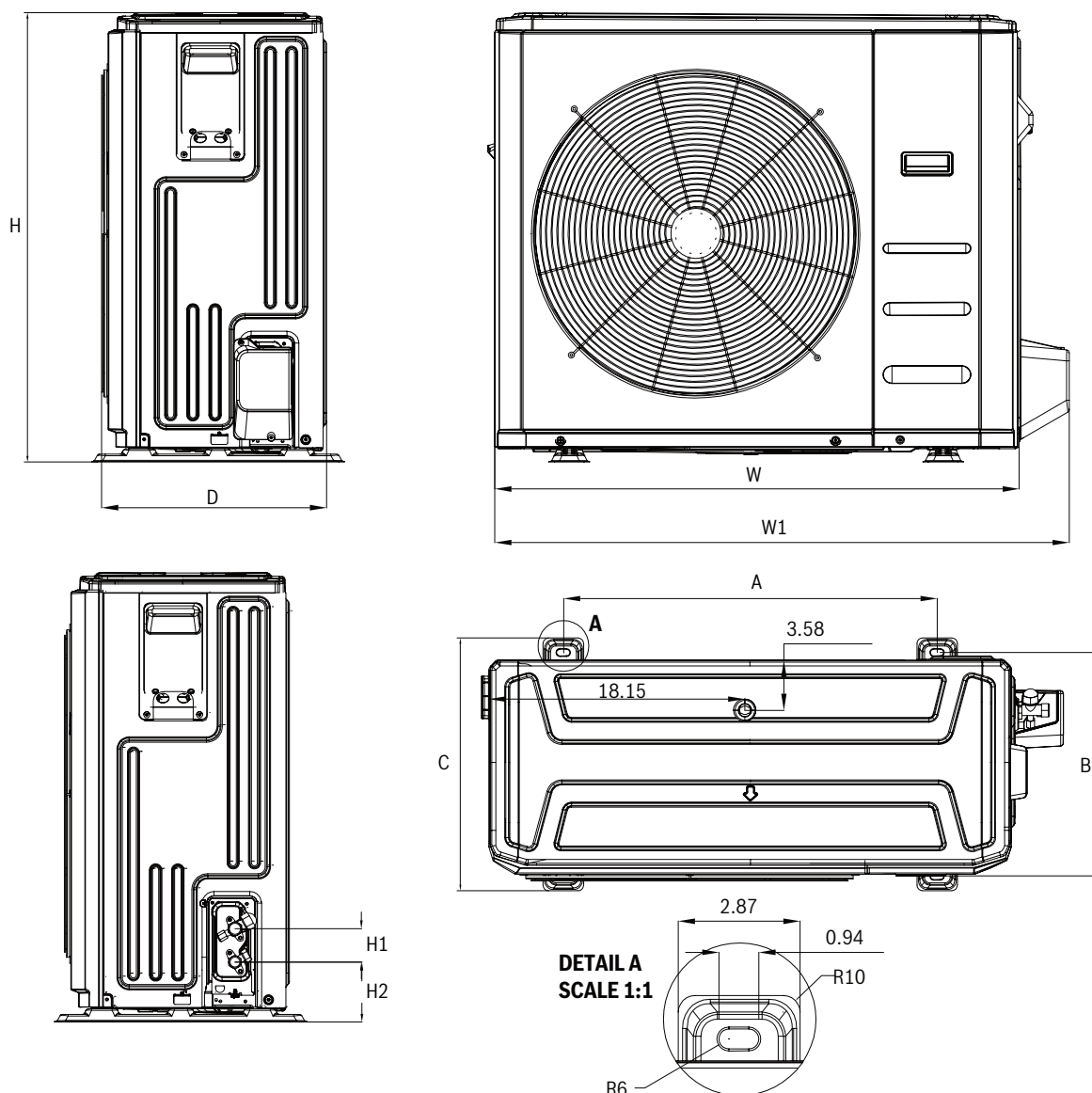
Multi Zone Pairing Information	2 ZONE	3 ZONE	4 ZONE	5 ZONE
BMS500-AAM036-1CSXRC	6k + 18k	6k + 6k + 12k	6k + 6k + 6k + 6k	
	6k + 24k	6k + 6k + 18k	6k + 6k + 6k + 9k	
	9k + 18k	6k + 6k + 24k	6k + 6k + 6k + 12k	
	9k + 24k	6k + 9k + 12k	6k + 6k + 6k + 18k	
	12k + 12k	6k + 9k + 18k	6k + 6k + 6k + 24k	
	12k + 18k	6k + 9k + 24k	6k + 6k + 9k + 9k	
	12k + 24k	6k + 12k + 12k	6k + 6k + 9k + 12k	
	18k + 18k	6k + 12k + 18k	6k + 6k + 9k + 18k	
	18k + 24k	6k + 12k + 24k	6k + 6k + 9k + 24k	
	24k + 24k	6k + 18k + 18k	6k + 6k + 12k + 12k	
		6k + 18k + 24k	6k + 6k + 12k + 18k	
		9k + 9k + 9k	6k + 6k + 12k + 24k	
		9k + 9k + 12k	6k + 9k + 9k + 9k	
		9k + 9k + 18k	6k + 9k + 9k + 12k	
		9k + 9k + 24k	6k + 9k + 9k + 18k	
		9k + 12k + 12k	6k + 9k + 9k + 24k	
		9k + 12k + 18k	6k + 9k + 12k + 12k	
		9k + 12k + 24k	6k + 9k + 12k + 18k	
		9k + 18k + 18k	6k + 12k + 12k + 12k	
		12k + 12k + 12k	6k + 12k + 12k + 18k	
		12k + 12k + 18k	9k + 9k + 9k + 9k	
		12k + 12k + 24k	9k + 9k + 9k + 12k	
		12k + 18k + 18k	9k + 9k + 9k + 18k	
			9k + 9k + 12k + 12k	
			9k + 9k + 12k + 18k	
			9k + 12k + 12k + 12k	
			12k + 12k + 12k + 12k	

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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-AAM036-1CSXRC	37.24	16.14	31.89	40.55	2.36	4.25	26.5	15.87	17.9