




# Climate 5000 Series 27K BTU Multi Zone Regular System Outdoor Unit

Engineering  
Submittal  
Sheet



# BOSCH

Overview and Project Information	
  	Project Name
	Location
	Architect
	Engineer
	General Contractor
	Reference #
Date	

27K Btu Multi Zone Regular System Outdoor Unit				
Outdoor part number		8733956200		
Outdoor model number		BMS500-AAM027-1CSXRC		
Efficiency Data		Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
SEER2		21.0	24.6	22.8
EER2		11.7	12.7	12.2
HSPF2 (Region IV)		9.2	9.5	9.4
HSPF2 (Region V)		7.0	7.1	7.1
COP(47°F)		3.7	3.7	3.7
COP(5°F)		2.0	2.0	2.0
Performance Data		Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
Cooling	Capacity Range (Btu/h)	9277-30776	9838-30438	9558-30607
	Rated Capacity (Btu/h)	28000	28000	28000
	Current (A)	11.50	11.00	11.25
	Input Power (W)	2500	2240	2370
Heating	Capacity Range (Btu/h)	8388-28869	8218-31000	8303-29935
	Rated Capacity (47°F)	28000	28000	28000
	Capacity (5°F)	18700	19000	18850
	Current (A)	10.50	10.50	10.50
	Input Power (W)	2245	2200	2223

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)		24.5
Max. fuse (A)		30.0

Compressor Data	
Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74 / 620
Input (W)	1895
Rated current (A)	19.0

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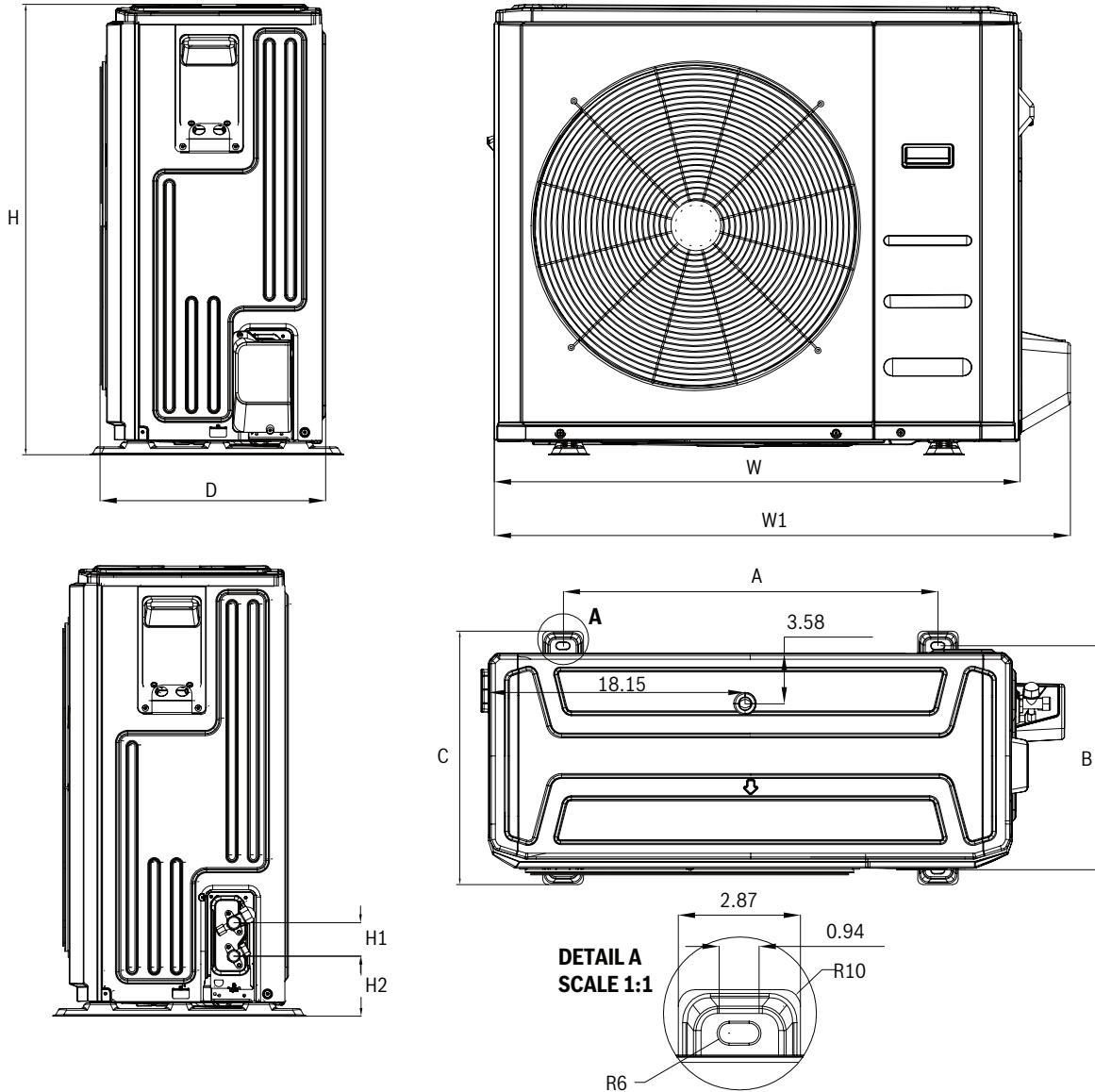
Piping	
Refrigerant precharge (ft / m)	74 / 22.5
Refrigerant charge (oz / g)	91.7 / 2600
Liquid side (in / mm)	1/4" / Ø6.35 (Qty. 3)
Gas side (in / mm)	3/8" / Ø9.52 (Qty. 3)
Additional charge per ft - liquid side (oz / g)	0.161 / 15
Additional charge per ft - gas side (oz / g)	0.322 / 30
Max. refrigerant pipe length (ft / m)	197 / 60
Max. length to one IDU (ft / m)	98 / 30
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)		6.33
ODU	Fan motor model #	ZKFN-120-8-2
	Fan motor qty (ea)	1
	Fan motor input (W)	150.00
	Fan motor speed, H / M / L (RPM)	1050 / 900 / 750
	Air flow, max (CFM)	2129
	Noise level, max (dB(A))	61.0
	Net weight (lbs / kg)	139.77 / 63.4
Gross weight (lbs / kg)		150.57 / 68.3
IDU	Minimum # of indoors	2
	Maximum # of indoors	3

Multi Zone Pairing Information	2 ZONE	3 ZONE	4 ZONE	5 ZONE
BMS500-AAM027-1CSXRC	6k + 12k	6k + 6k + 6k		
	6k + 18k	6k + 6k + 9k		
	9k + 9k	6k + 6k + 12k		
	9k + 12k	6k + 6k + 18k		
	9k + 18k	6k + 9k + 9k		
	12k + 12k	6k + 9k + 12k		
	12k + 18k	6k + 9k + 18k		
	18k + 18k	6k + 12k + 12k		
		6k + 12k + 18k		
		9k + 9k + 9k		
		9k + 9k + 12k		
		9k + 9k + 18k		
		9k + 12k + 12k		
		12k + 12k + 12k		



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-AAM027-1CSXRC	37.24	16.14	31.89	40.55	2.36	4.25	26.5	15.87	17.9