

Climate 5000 Series

18K BTU Multi Zone Max Performance Outdoor Unit

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project Name

Location

Architect

Engineer

General Contractor

Reference #

Date

18K Btu Multi Zone Max Performance Outdoor Unit

Outdoor part number

8733956202

Outdoor model number

BMS500-AAM018-1CSXHC

Efficiency Data

	Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
SEER2	19	22	20.5
EER2	12	12.5	12.3
HSPF2 (Region IV)	9.3	9.8	9.6
HSPF2 (Region V)	7.5	7.7	7.6
COP(47°F)	3.66	3.40	3.53
COP(5°F)	1.85	1.90	1.88

Performance Data

	Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
Cooling	Capacity Range (Btu/h)	5200-23000	5350-24000
	Rated Capacity (Btu/h)	19000	19000
	Current (A)	9.50	9.30
	Input Power (W)	1580	1550
Heating	Capacity Range (Btu/h)	6400-28000	7250-28850
	Rated Capacity (47°F)	20000	20000
	Capacity (5°F)	19000	19350
	Current (A)	9.00	9.20
	Input Power (W)	1600	1662.5

Operation Range

ODU	Cooling (°F / °C)	-22~122 / -30~50
	Heating (°F / °C)	-22~86 / -30~30

Electrical Data

Power supply (V / Ø / Hz)	208-230 / 1 / 60
Min. circuit ampacity (A)	20.0
Max. fuse (A)	25.0

Compressor Data

Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74 / 620
Input (W)	1895
Rated current (A)	18.0

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Piping	
Refrigerant precharge (ft / m)	49 / 15
Refrigerant charge (oz / g)	91.7 / 2600
Liquid side (in / mm)	1/4" / Ø6.35 (Qty. 2)
Gas side (in / mm)	3/8" / Ø9.52 (Qty. 2)
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)	131 / 40
Max. length to one IDU (ft / m)	82 / 25
Max. height difference between IDU and ODU (ft / m)	49 / 15
Max. height difference between IDU's (ft / m)	33 / 10

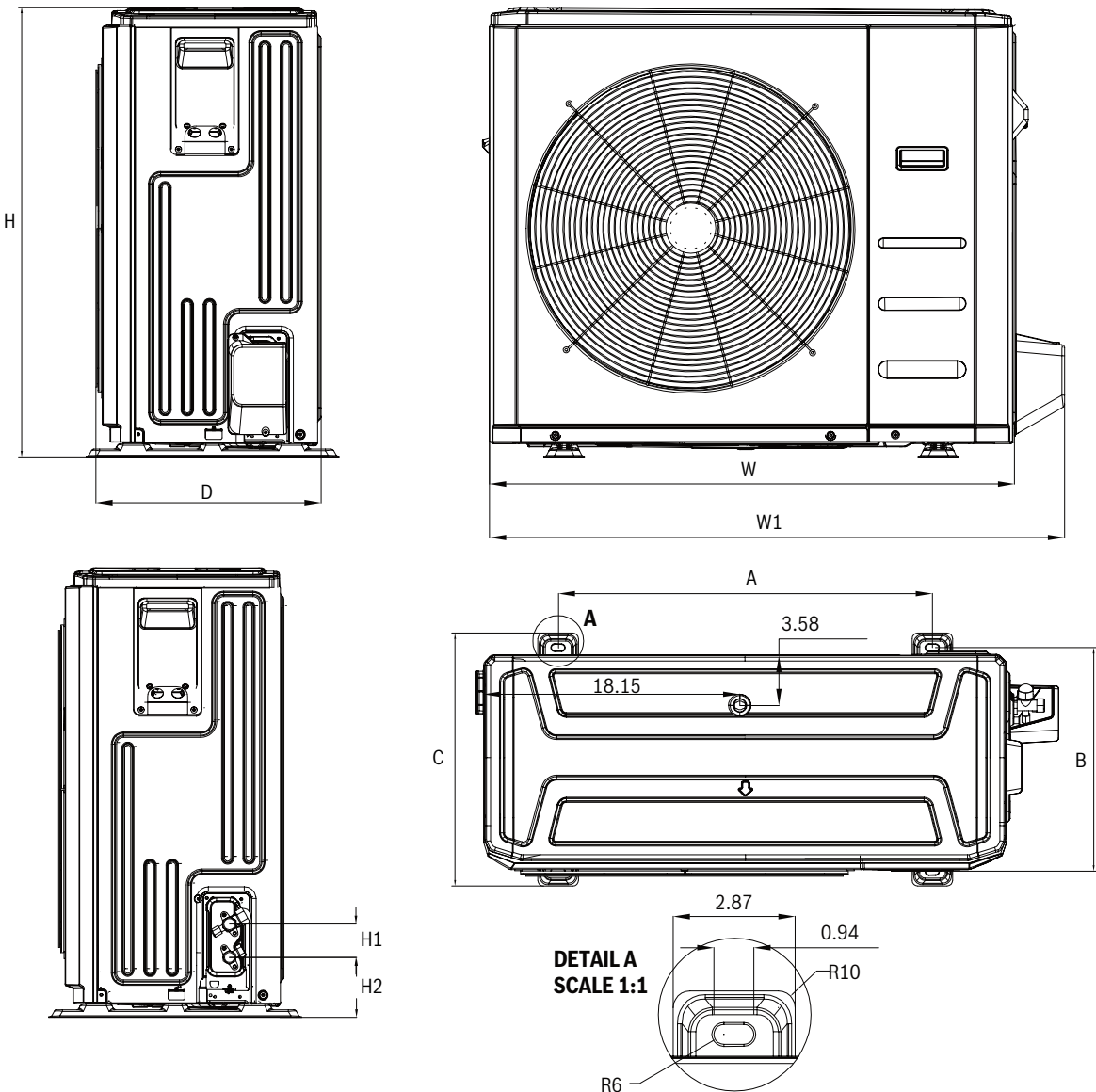
System Data		
Refrigerant type		R410A
Design pressure (PSIG)		550/340
Dehumidification (pts/hr)		3.79
ODU	Fan motor model #	ZKFN-120-8-2
	Fan motor qty (ea)	1
	Fan motor input (W)	150.0
	Fan motor speed, H / M / L (RPM)	1050 / 900 / 850
	Air flow, max (CFM)	2129
	Noise level, max (dB(A))	61.0
	Net weight (lbs / kg)	138.23 / 62.7
IDU	Gross weight (lbs / kg)	149.03 / 67.6
	Minimum # of indoors	2
Maximum # of indoors		2

Multi Zone Pairing Information	2 ZONE	3 ZONE	4 ZONE	5 ZONE
BMS500-AAM018-1CSXHC	6k + 6k			
	6k +9k			
	6k +12k			
	9k +9k			
	9k +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-AAM018-1CSXHC	37.24	16.14	31.89	40.55	2.36	4.25	26.5	15.87	17.9