

Climate 5000 Series - Gen 4

18K BTU Multi Zone Regular Outdoor Unit

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

Date

18K Btu Multi Zone Regular Outdoor Unit

Outdoor part number 8-733-962-695

Outdoor model number BMS500-AAM018-1CSXRD

Efficiency Data

	Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
SEER2	20	25.1	22.5
EER2	12	14	13.0
HSPF2 (Region IV)	10	9.8	9.9
HSPF2 (Region V)	7.8	7.8	7.8
COP(47°F)	3.8	3.8	3.8
COP(5°F)	2.3	2.3	2.3

Performance Data

	Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
Cooling	Capacity Range (Btu/h)	5400~24000	5400~22800
	Rated Capacity (Btu/h)	18000	18000
	Current (A)	8	7.0
	Input Power (W)	1500	1392.5
Heating	Capacity Range (Btu/h)	5700~22000	5700~21800
	Rated Capacity (47°F)	19000	19000
	Capacity (5°F)	14600.0	14050
	Current (A)	8	7.8
	Input Power (W)	1465	1465

Operation Range

ODU	Cooling (°F / °C)	-13~122 / -25~50
	Heating (°F / °C)	-13~75 / -25~24

Electrical Data

Power supply (V / Ø / Hz)	208-230 / 1 / 60
Min. circuit ampacity (A)	16
Max. fuse (A)	20

Compressor Data

Type:	Twin-Rotary
Refrigerant oil /oil charge (ml)	V74 / 450
Input (W)	1250
Rated current (A)	8.1

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Piping	
Refrigerant precharge (ft / m)	24.6(7.5)x3
Refrigerant charge (oz / kg)	61.73 / 1.75
Liquid side (in / mm)	3x1/4in / 3x6.35mm
Gas side (in / mm)	3x3/8in / 3x9.52mm
Additional Charge of Refrigerant - liquid side (oz/ft)/(g/m)	0.16 / 15
Additional Charge of Refrigerant - gas side (oz/ft)/(g/m)	0.32 / 30
Max. refrigerant pipe length (ft / m)	196.8 / 60
Max. length to one IDU (ft / m)	98.4 / 30
Max. height difference between IDU and ODU (ft / m)	49.2 / 15
Max. height difference between IDU's (ft / m)	33 / 10

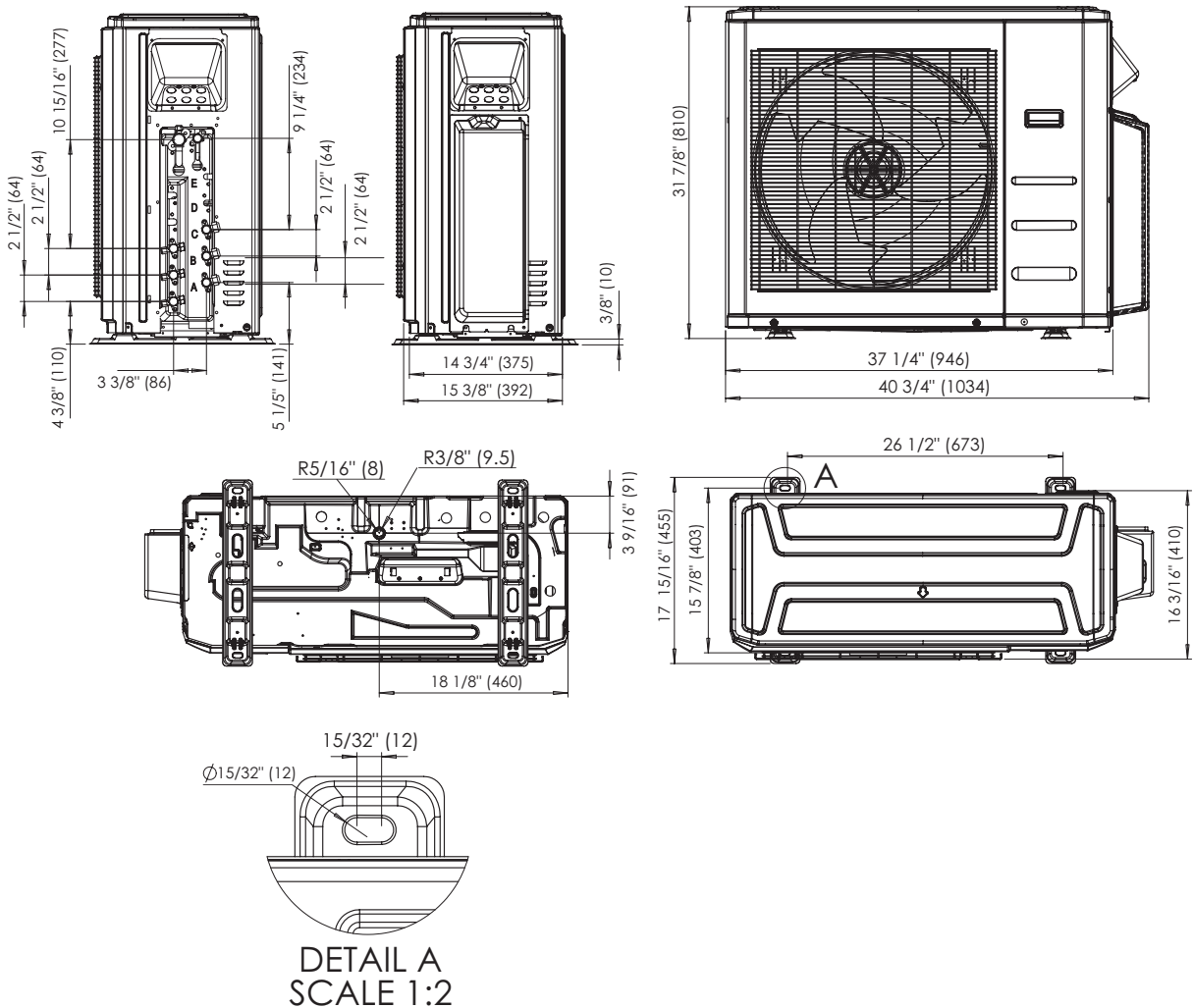
System Data		
Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (L/hr)		0.2
ODU	Fan motor model #	ZKFN-80-10-1L
	Fan motor qty (ea)	1
	Fan motor input (W)	161
	Fan motor speed, H / M / L (RPM)	750 / 600 / 500
	Air flow, max (CFM)	1765.8
	Noise level, max (dB(A))	59
	Net weight (lbs / kg)	100.53 / 45.6
	Gross weight (lbs / kg)	109.35 / 49.6
IDU	Minimum # of indoors	1
	Maximum # of indoors	3

Multi Zone Pairing Information	1 ZONE	2 ZONE	3 ZONE	4 ZONE	5 ZONE
BMS500-AAM018-1CSXRD	12	6+6	6+6+6		
	18	6+9	6+6+9		
		6+12	6+9+9		
		6+18			
		9+9			
		9+12			
		12+12			
Capacities	Wall Mounted - 6K to 18K Cassette/Ducted - 9K to 18K				

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Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAM018-1CSXRD	35.04	13.46	26.50