

Climate 5000 Series - Gen 4

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 8-733-962-699

Outdoor model number BMS500-AAM018-1CSXHD

Efficiency Data		Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
SEER2		20	25	22.5
EER2		13	15	14.0
HSPF2 (Region IV)		10	10.4	10.2
HSPF2 (Region V)		8	8.5	8.1
COP(47°F)		4	4	4.0
COP (5°F)		2.0	2.0	2.0
Performance Data		Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
Cooling	Capacity Range (Btu/h)	5400~27600	5400~28000	5400-27800
	Rated Capacity (Btu/h)	19000	19000	19000
	Current (A)	7.5	5.6	8.1
	Input Power (W)	1460	1265	1794.5
Heating	Capacity Range (Btu/h)	5700~25400	5700~27000	5700-26200
	Rated Capacity (47°F)	20000	20000	20000
	Capacity (5°F)	18000	19000	18850
	Current (A)	7.5	6.5	8.3
	Input Power (W)	1465	1465	1872

Operation Range

ODU	Cooling (°F / °C)	-22~122 / -30~50
	Heating (°F / °C)	-22~75 / -30~24

Electrical Data

Power supply (V / Ø / Hz)	208-230 / 1 / 60
Min. circuit ampacity (A)	17.5
Max. fuse (A)	20

Compressor Data

Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74 / 620
Input (W)	805 / 2045
Rated current (A)	4.15 / 9.30

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Piping	
Refrigerant precharge (ft / m)	24.6(7.5)x3
Refrigerant charge (oz / kg)	78.31 / 2.22
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

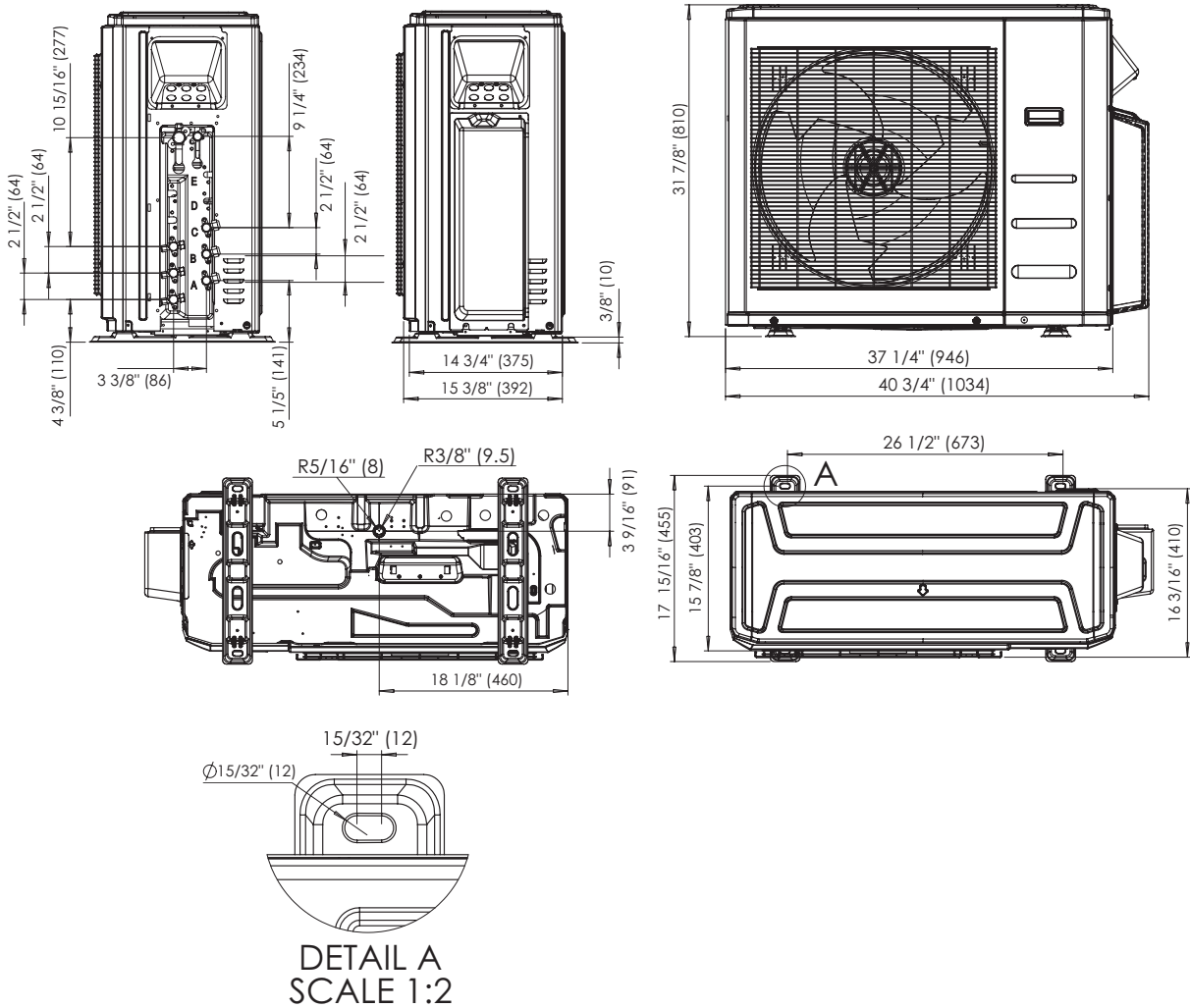
System Data		
Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (L/hr)		0
ODU	Fan motor model #	ZKFN-120-8-9
	Fan motor qty (ea)	1
	Fan motor input (W)	150.0
	Fan motor speed, H / M / L (RPM)	800 / 700 / 650
	Air flow, max (CFM)	2130.7
	Noise level, max (dB(A))	61.5
	Net weight (lbs / kg)	137.35 / 62.3
IDU	Gross weight (lbs / kg)	148.15 / 67.2
	Minimum # of indoors	1
IDU	Maximum # of indoors	3

Multi Zone Pairing Information	1 ZONE	2 ZONE	3 ZONE		4 ZONE		5 ZONE
BMS500-AAM018-1CSXHD	18	6+6	6+6+6				
	24	6+9	6+6+9				
		6+12	6+6+12				
		6+18	6+6+18				
		6+24	6+6+24				
		9+9	6+9+9				
		9+12	6+9+12				
		9+18	6+9+18				
		9+24	6+12+12				
		12+12	6+12+18				
		12+18	9+9+9				
		12+24	9+9+12				
		18+18	9+9+18				
			9+12+12				
			12+12+12				
Capacities	Wall Mounted - 6K to 24K Cassette/Ducted - 9K to 24K						

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Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAM018-1CSXHD	37.24	16.14	31.89