

Climate 5000 Series - Gen 4

36K BTU Multi Zone Max Performance Outdoor Unit

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

Date

36K Btu Multi Zone Max Performance Outdoor Unit

Outdoor part number

8-733-962-701

Outdoor model number

BMS500-AAM036-1CSXHD

Efficiency Data

Ducted

Non-Ducted

Mixed Ducted & Non-Ducted

SEER2

19.4

23

21.2

EER2

12

13

12.5

HSPF2 (Region IV)

10.4

10.7

10.55

HSPF2 (Region V)

8.8

8.5

8.7

COP(47°F)

3.8

4

3.9

COP(5°F)

2.0

2.0

2.0

Performance Data

Ducted

Non-Ducted

Mixed Ducted & Non-Ducted

Cooling

Capacity Range (Btu/h)

9000~42000

9000~43000

9000~42500

Rated Capacity (Btu/h)

36000

36000

36000

Current (A)

17.4

12

14.7

Input Power (W)

3000

2750

2875.0

Heating

Capacity Range (Btu/h)

10000~45000

10000~44000

10000~44500

Rated Capacity (47°F)

36000

36000

36000

Capacity (5°F)

38000

36000

37000

Current (A)

16.1

11.5

13.8

Input Power (W)

2776

2638

2707

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)	37
Max. fuse (A)	40

Compressor Data

Type:	Twin-Rotary
Refrigerant oil /oil charge (ml)	VG75 / 1460
Input (W)	3265
Rated current (A)	6.6

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Piping	
Refrigerant precharge (ft / m)	24.6(7.5)x5
Refrigerant charge (oz / kg)	134.04 / 3.8
Liquid side (in / mm)	5x1/4in / 5x6.35mm
Gas side (in / mm)	3x3/8in+2x1/2in / 3x9.52mm+2x12.7mm
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)	262.4 / 80
Max. length to one IDU (ft / m)	114.8 / 35
Max. height difference between IDU and ODU (ft / m)	49.2 / 15
Max. height difference between IDU's (ft / m)	33 / 10

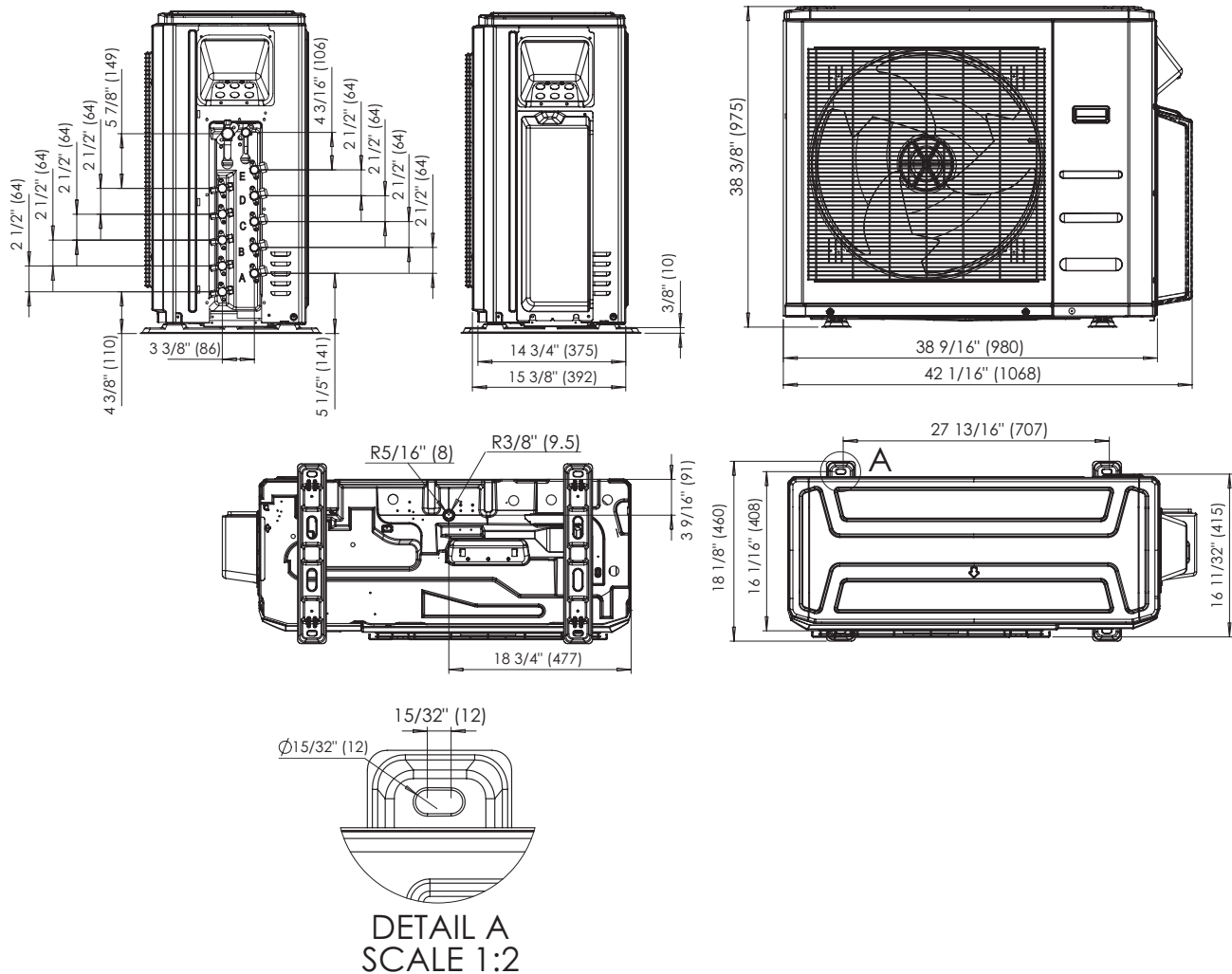
System Data		
Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (L/hr)		4.22
ODU	Fan motor model #	ZKFN-250-10-1
	Fan motor qty (ea)	1
	Fan motor input (W)	320.0
	Fan motor speed, H / M / L (RPM)	750 / 700 / 650
	Air flow, max (CFM)	3037.2
	Noise level, max (dB(A))	65
	Net weight (lbs / kg)	211.86 / 96.1
IDU	Gross weight (lbs / kg)	244.71 / 111
	Minimum # of indoors	1
IDU	Maximum # of indoors	5

Multi Zone Pairing Information	1 ZONE	2 ZONE	3 ZONE		4 ZONE			5 ZONE	
BMS500-AAM036-1CSXHD	30	6+24	6+6+12	9+9+9	6+6+6+6	6+9+9+18	9+9+9+24	6+6+6+6+6	6+9+9+12+12
	36	6+30	6+6+18	9+9+12	6+6+6+9	6+9+9+24	9+9+12+12	6+6+6+6+9	9+9+9+9+9
		6+36	6+6+24	9+9+18	6+6+6+12	6+9+12+12	9+9+12+18	6+6+6+6+12	9+9+9+9+12
		9+18	6+6+30	9+9+24	6+6+6+18	6+9+12+18	9+9+12+24	6+6+6+6+18	
		9+24	6+6+36	9+9+30	6+6+6+24	6+9+12+24	9+9+18+18	6+6+6+9+9	
		9+30	6+9+9	9+12+12	6+6+9+9	6+9+18+18	9+9+18+24	6+6+6+9+12	
		9+36	6+9+12	9+12+18	6+6+9+12	6+9+18+24	9+12+12+12	6+6+6+9+18	
		12+12	6+9+18	9+12+24	6+6+9+18	6+12+12+12	9+12+12+18	6+6+6+12+12	
		12+18	6+9+24	9+18+18	6+6+9+24	6+12+12+18	9+12+12+24	6+6+6+12+18	
		12+24	6+9+30	9+18+24	6+6+12+12	6+12+12+24	9+12+18+18	6+6+9+9+9	
		12+30	6+12+12	12+12+12	6+6+12+18	6+12+18+18	9+18+18+18	6+6+9+9+12	
		12+36	6+12+18	12+12+18	6+6+12+24	6+12+18+24	12+12+12+12	6+6+9+9+18	
		18+18	6+12+24	12+12+24	6+6+18+18	6+18+18+18	12+12+12+18	6+6+9+12+12	
		18+24	6+12+30	12+18+18	6+6+18+24	9+9+9+9	12+12+12+24	6+6+12+12+12	
		18+30	6+18+18	12+18+24	6+9+9+9	9+9+9+12	12+12+18+18	6+9+9+9+9	
		24+24	6+18+24	18+18+18	6+9+9+12	9+9+9+18		6+9+9+9+12	
Capacities	Wall Mounted - 6K to 36K Cassette/Ducted - 9K to 24K								

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Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAM036-1CSXHD	38.58	16.34	38.39