

Climate 5000 Series - Gen 4

36K BTU Multi Zone Regular Outdoor Unit

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

Date

36K Btu Multi Zone Regular Outdoor Unit

Outdoor part number 8-733-962-697

Outdoor model number BMS500-AAM036-1CSXRD

Efficiency Data

	Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
SEER2	20	24	22.0
EER2	11.7	12	16.85
HSPF2 (Region IV)	9.2	9.5	9.35
HSPF2 (Region V)	7.4	7.4	7.4
COP(47°F)	3.2	3.5	3.35
COP(5°F)	2.0	2.0	2.0

Performance Data

	Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
Cooling	Capacity Range (Btu/h)	9000~40000	9000~41000
	Rated Capacity (Btu/h)	35000	35500
	Current (A)	13.5	13.5
	Input Power (W)	2990	2995.0
Heating	Capacity Range (Btu/h)	10000~40500	10000~41250
	Rated Capacity (47°F)	37000	37000
	Capacity (5°F)	26000.0	26000
	Current (A)	15.5	14.75
	Input Power (W)	3389	3239

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)	30.5
Max. fuse (A)	35

Compressor Data

Type:	Rotary
Refrigerant oil /oil charge (ml)	V74 / 1000
Input (W)	2765
Rated current (A)	5.4

Climate 5000 Series - Gen 4

36K Btu Multi Zone Regular Outdoor Unit



Piping	
Refrigerant precharge (ft / m)	24.6(7.5)x5
Refrigerant charge (oz / kg)	120.63 / 3.42
Liquid side (in / mm)	5x1/4in / 5x6.35mm
Gas side (in / mm)	4x3/8in+1x1/2in / 4x9.52mm+1x12.7mm
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)		0.1
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)	900 / 750 / 600
	Air flow, max (CFM)	2148.4
	Noise level, max (dB(A))	62.5
	Net weight (lbs / kg)	168.87 / 76.6
IDU	Gross weight (lbs / kg)	180.12 / 81.7
	Minimum # of indoors	1
Maximum # of indoors		5

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

[illegible]

Tel: 1-800-283-3787 www.bosch-homecomfort.us