

Climate 5000 Series

48K BTU Multi Zone Regular System

Outdoor Unit

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project Name

Location

Architect

Engineer

General Contractor

Reference #

Date

48K Btu Multi Zone Regular System Outdoor Unit

Outdoor part number 8733956226

Outdoor model number BMS500-AAM048-1CSXRC

Efficiency Data	Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
SEER2	20.5	23.4	22
EER2	10.8	12.5	11.7
HSPF2 (Region IV)	9.7	8.7	9.2
HSPF2 (Region V)	7.2	6.8	7.0
COP(47°F)	3.7	3.6	3.7
COP(5°F)	1.7	1.8	1.75

Performance Data	Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
Cooling	Capacity Range (Btu/h)	19400-51000	19000-50000
	Rated Capacity (Btu/h)	48000	48000
	Current (A)	21.50	19.15
	Input Power (W)	4440	4140
Heating	Capacity Range (Btu/h)	15500-56000	14000-54000
	Rated Capacity (47°F)	50000	49000
	Capacity (5°F)	33000	33000
	Current (A)	18.20	17.65
	Input Power (W)	3930	3940

Operation Range

ODU	Cooling (°F / °C)	-13~122 / -25~50
	Heating (°F / °C)	-13~86 / -25~30

Electrical Data

Power supply (V / Ø / Hz)	208-230 / 1 / 60
Min. circuit ampacity (A)	40.0
Max. fuse (A)	60.0

Compressor Data

Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74/1400
Input (W)	3040
Rated current (A)	26

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Piping	
Refrigerant precharge (ft / m)	123 / 37.5
Refrigerant charge (oz / g)	162 / 4600
Liquid side (in / mm)	1/4" / Ø6.35 (Qty. 5)
Gas side (in / mm)	3/8" / Ø9.52 (Qty. 3) 1/2" / Ø12.7 (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)	262 / 80
Max. length to one IDU (ft / m)	115 / 35
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)		11.63
ODU	Fan motor model #	ZKFN-85-8-22-5
	Fan motor qty (ea)	2
	Fan motor input (W)	126.0
	Fan motor speed, H / M / L (RPM)	900 / 850 / 800 / 750
	Air flow, max (CFM)	4500
	Noise level, max (dB(A))	64.0
	Net weight (lbs / kg)	225.53 / 102.3
	Gross weight (lbs / kg)	256.62 / 116.4
IDU	Minimum # of indoors	2
	Maximum # of indoors	5

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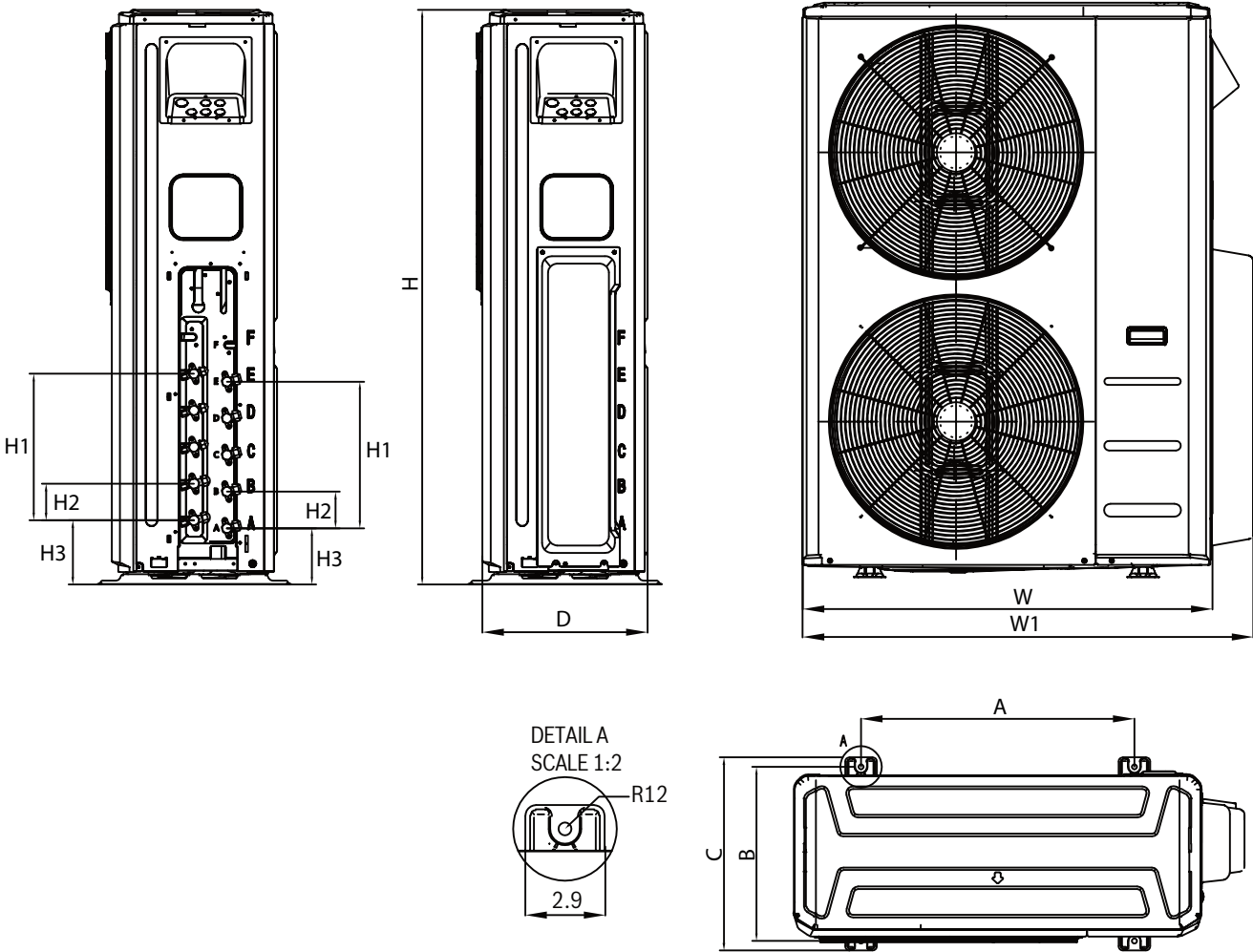
Multi Zone Pairing Information	2 ZONE	3 ZONE	4 ZONE	5 ZONE
	9+24	6+6+24	6+6+6+18	6+6+6+6+9
	9+30	6+6+30	6+6+6+24	6+6+6+6+12
	9+36	6+6+36	6+6+6+30	6+6+6+6+18
	12+24	6+9+24	6+6+6+36	6+6+6+6+24
	12+30	6+9+30	6+6+9+18	6+6+6+6+30
	12+36	6+9+36	6+6+9+24	6+6+6+6+36
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	18+24	6+12+24	6+6+9+36	6+6+6+9+12
	18+30	6+12+30	6+6+12+12	6+6+6+9+18
	18+36	6+12+36	6+6+12+18	6+6+6+9+24
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			9+12+18+24	9+9+9+12+24
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			12+12+12+24	9+12+12+12+12
			12+12+18+18	12+12+12+12+12

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Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)	W1 (in)	H1 (in)	H2 (in)	H3 (in)	A (in)	B (in)	C (in)
BMS500-AAM048-1CSXRC	37.5	16.3	52.5	41.7	13.4	3.3	5.2	25	15.9	17.6