

Climate 5000 Series 18K BTU Multi Zone Regular System Outdoor Unit

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project Name

Location

Architect

Engineer

General Contractor

Reference #

Date

18K Btu Multi Zone Regular System Outdoor Unit

Outdoor part number

8733956199

Outdoor model number

BMS500-AAM018-1CSXRC

Efficiency Data

Ducted

Non-Ducted

Mixed Ducted & Non-Ducted

SEER2

19

22.9

21

EER2

12

13.9

13

HSPF2 (Region IV)

9.8

10.5

10.2

HSPF2 (Region V)

7.6

8.0

7.8

COP(47°F)

3.62

3.74

3.68

COP(5°F)

2.00

2.00

2.00

Performance Data

Ducted

Non-Ducted

Mixed Ducted & Non-Ducted

Cooling

Capacity Range (Btu/h)

3850-22400

5650-22000

4750-22200

Rated Capacity (Btu/h)

18000

18000

18000

Current (A)

6.83

6.20

6.52

Input Power (W)

1500

1295

1398

Heating

Capacity Range (Btu/h)

4350-25800

5050-24400

4700-25100

Rated Capacity (47°F)

19000

19000

19000

Capacity (5°F)

13300

12600

12950

Current (A)

6.50

6.30

6.40

Input Power (W)

1538

1489

1514

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)

18.0

Max. fuse (A)

25.0

Compressor Data

Type:

Rotary

Refrigerant oil /oil charge (ml)

VG74 / 450

Input (W)

1160

Rated current (A)

13.0

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Piping	
Refrigerant precharge (ft / m)	49 / 15
Refrigerant charge (oz / g)	65.26 / 1850
Liquid side (in / mm)	1/4" / Ø6.35 (Qty. 2)
Gas side (in / mm)	3/8" / Ø9.52 (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)	131 / 40
Max. length to one IDU (ft / m)	82 / 25
Max. height difference between IDU and ODU (ft / m)	49 / 15
Max. height difference between IDU's (ft / m)	33 / 10

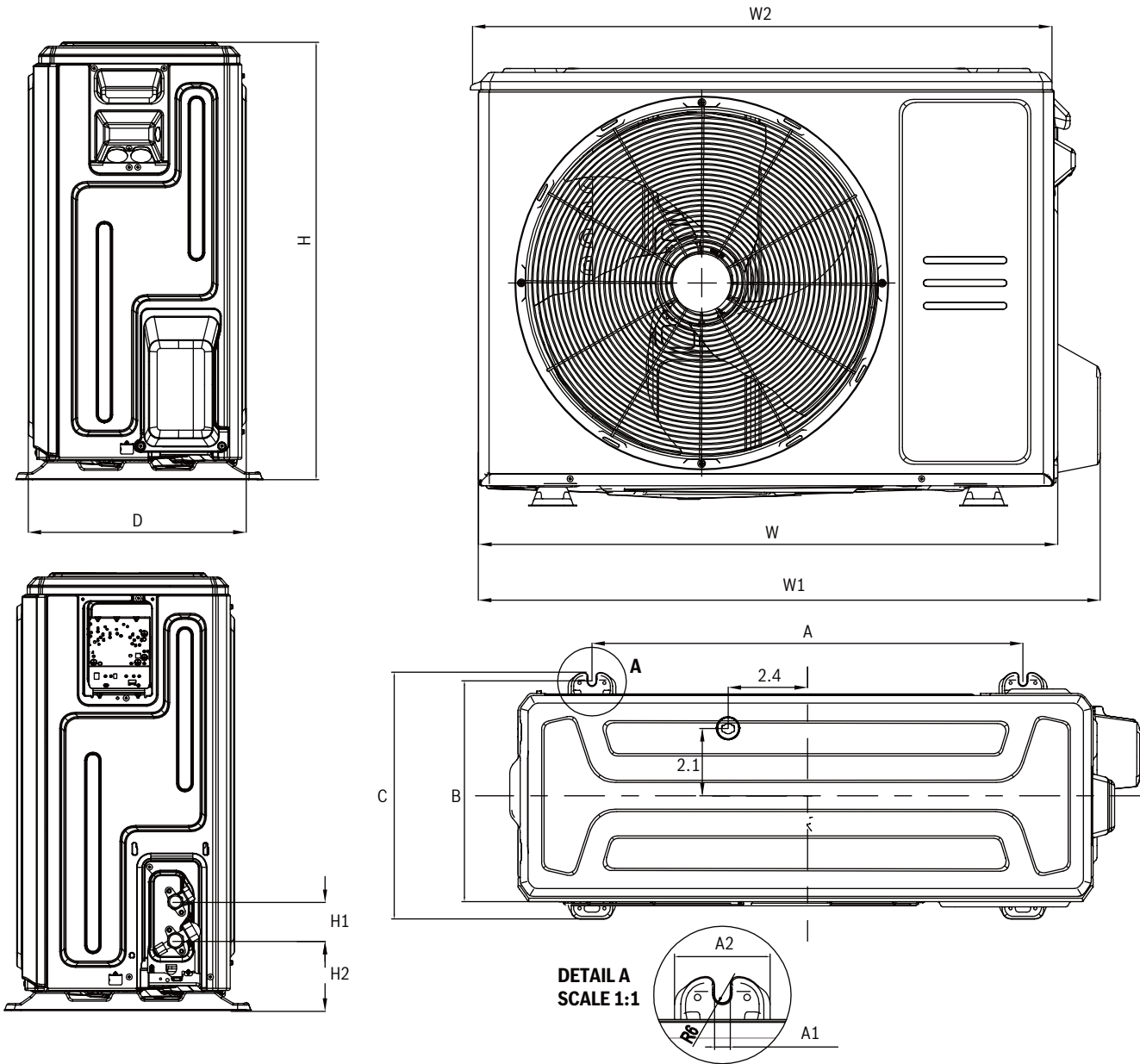
System Data		
Refrigerant type		R410A
Design pressure (PSIG)		550/340
Dehumidification (pts/hr)		4.00
ODU	Fan motor model #	ZKFN-80-8-3
	Fan motor qty (ea)	1
	Fan motor input (W)	88.00
	Fan motor speed, H / M / L (RPM)	750 / 500
	Air flow, max (CFM)	1765
	Noise level, max (dB(A))	58.5
	Net weight (lbs / kg)	100.31 / 45.5
	Gross weight (lbs / kg)	108.69 / 49.3
IDU	Minimum # of indoors	2
	Maximum # of indoors	2

Multi Zone Pairing Information	2 ZONE	3 ZONE	4 ZONE	5 ZONE
BMS500-AAM018-1CSXRC	6k + 6k			
	6k +9k			
	6k +12k			
	9k +9k			
	9k +12k			
	12k + 12k			

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Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)	W1 (in)	W2 (in)	A (in)	B (in)	C (in)	A1 (in)	A2 (in)
BMS500-AAM018-1CSXRC	35.0	13.5	26.5	37.6	35.2	26.1	13.9	14.96	2.91	0.47