

Climate 5000 Series - Gen 4

18K BTU Single Zone Regular System

1-Way Cassette IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

18K Btu Single Zone Regular System - 1-Way Cassette IDU

Indoor part number	8-733-962-668
Indoor model number	BMS500-AAU018-1AHZXD
Outdoor part number	8-733962-686
Outdoor model number	BMS500-AAS018-1CSXRD

Efficiency Data		AHRI 210/240 2023
SEER2		22.2
EER2		12.5
HSPF2 Region IV		12.2
HSPF2 Region V		8.6
COP(47F)		3.30
COP (5F)		2.24

Performance Data		AHRI 210/240 2023
Cooling	Capacity Range	4000-18800
	Rated Capacity	18000
	Current	6.4
	Input Power	1440
Heating	Capacity Range	7600-22800
	Rated Capacity (47F)	18000
	Rated Capacity (5F)	13100
	Current	7.1
	Input Power	1600

Electrical Data	
Power supply (V / Ø / Hz)	208-230 / 1 / 60
Min. circuit ampacity indoor/outdoor (A)	3.0 / 18.0
Max. fuse indoor/outdoor (A)	15.0 / 20.0

Compressor Data	
Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74 / 440
Input (W)	1090
Rated current (RLA/A)	7.2

Piping	
Refrigerant precharge (oz/kg)	47.97 / 1.36
Length for precharge (ft/m)	24.6 / 7.5
Liquid side (in/mm)	1/4" / Ø6.35
Gas side (in/mm)	1/2" / Ø12.7
Additional charge per ft (oz/g)	0.16 / 4.54
Max. refrigerant pipe length (ft/m)	98.40 / 30
Max. difference in height (ft/m)	65.60 / 20

Operation Range

ODU	Cooling (°F / °C)	-13~122 / -25~50
	Heating (°F / °C)	-13~75 / -25~24
IDU	Cooling (°F / °C)	60~90 / 16~32
	Heating (°F / °C)	32~86 / 0~30

System Data

Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (pts/hr)		4.40
IDU	Fan motor model	ZKFN-30-8-43
	Fan motor qty (ea)	1
	Fan motor input (W)	46.0
	Fan speed (RPM)	1344 / 1184 / 1024
	Air flow, Turbo / H / M / L / Si (CFM)	400.2 / 352.0 / 300.2 / 207.2 / N/A
	Approx. Air Throw Range ft (m)	24.6 / 7.5
	Noise level, Turbo / H / M / L / Si (dB(A))	N/A / 44.0 / 41.0 / 29.5 / 24.0
	Net weight (lbs / kg)	45.19 / 20.5
ODU	Gross weight (lbs / kg)	82.89 / 37.6
	Drain pipe diameter (mm)	ODΦ25mm
	Fan motor model	ZKFN-80-10-1L
	Fan motor qty (ea)	1
	Fan motor input (W)	161
	Fan motor speed (RPM)	780 / 700 / 550
	Air flow, Max (CFM)	1765.8
	Noise level, Max (dB(A))	57.5
	Net weight (lbs / kg)	92.59 / 42.0
	Gross weight (lbs / kg)	100.31 / 45.5

Accessories

BMS-WT2-XXD (8733962707)	Wired Wall Thermostat
BMS-DRY-XXD (8733969263)	24V Interface
BMS-PK2-7X1 (8733951011)	25ft Lineset

Standard Parts

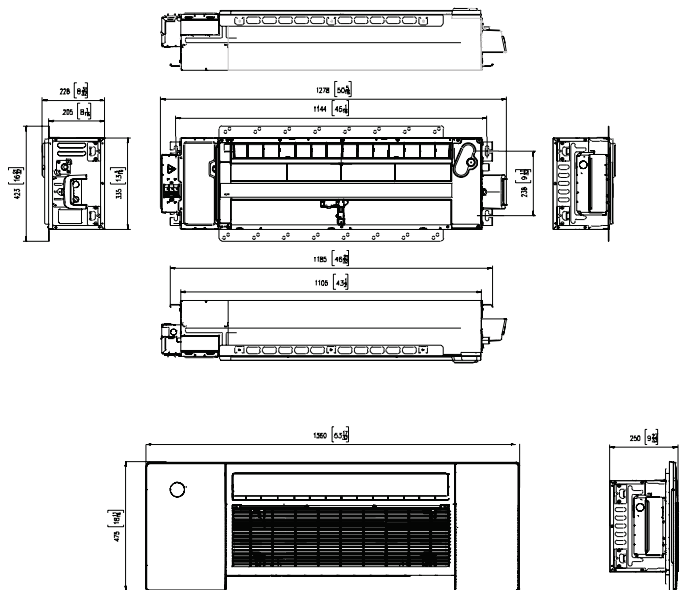
8-733-969-065	Remote Control
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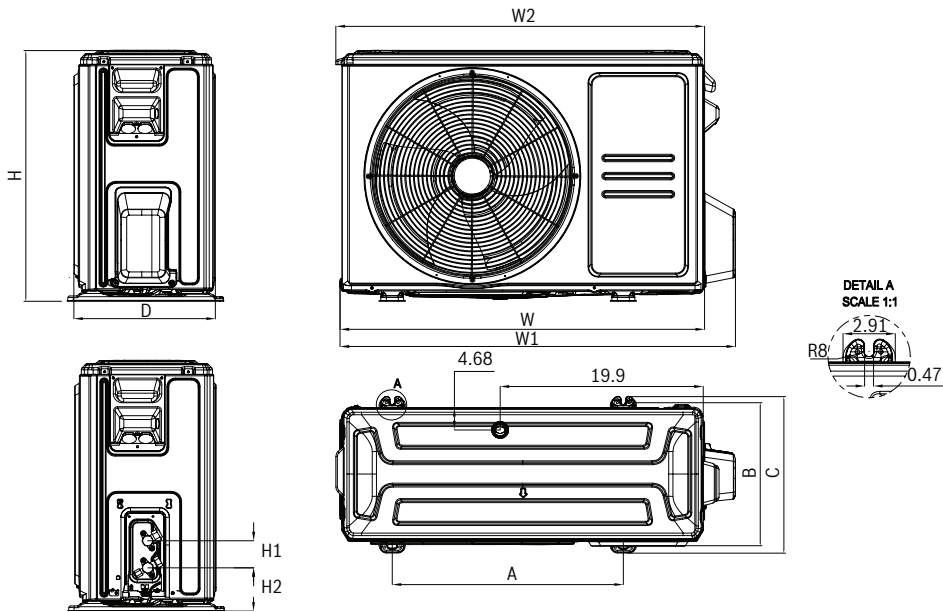


Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU018-1AHZXD	50.31	13.19	8.98

Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)	W1 (in)	W2 (in)	A (in)	B (in)	C (in)	H1 (in)	H2 (in)
BMS500-AAS018-1CSXRD	35.0	13.46	26.5	37.6	35.24	26.1	13.7	14.96	2.36	4.25