

Climate 5000 Series - Gen 4

12K 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 #

12K Btu Single Zone Regular System - 1-Way Cassette IDU

Indoor part number	8-733-962-667
Indoor model number	BMS500-AAU012-1AHZXD
Outdoor part number	8-733-962-685
Outdoor model number	BMS500-AAS012-1CSXRD

Efficiency Data		AHRI 210/240 2023
SEER2		22.1
EER2		12.3
HSPF2 Region IV		10
HSPF2 Region V		7.8
COP(47F)		3.40
COP (5F)		2.48

Performance Data		AHRI 210/240 2023
Cooling	Capacity Range	3900~13800
	Rated Capacity	12000
	Current	4.4
	Input Power	976
Heating	Capacity Range	4700~15300
	Rated Capacity (47F)	12000
	Rated Capacity (5F)	8600
	Current	4.7
	Input Power	1034

Electrical Data	
Power supply (V / Ø / Hz)	208-230 / 1 / 60
Min. circuit ampacity indoor/outdoor (A)	3.0 / 12.0
Max. fuse indoor/outdoor (A)	15.0 / 15.0

Compressor Data	
Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74 / 310
Input (W)	325 / 826
Rated current (RLA/A)	2.40 / 5.65

Piping	
Refrigerant precharge (oz/kg)	32.45 / 0.92
Length for precharge (ft/m)	24.6 / 7.5
Liquid side (in/mm)	1/4" / Ø6.35
Gas side (in/mm)	3/8" / Ø9.52
Additional Charge of Refrigerant (oz/ft)/(g/m)	0.16 / 15
Max. refrigerant pipe length (ft/m)	82.00 / 25
Max. difference in height (ft/m)	49.20 / 15

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)		3.25
IDU	Fan motor model	ZKFN-30-8-43
	Fan motor qty (ea)	1
	Fan motor input (W)	46.0
	Fan speed (RPM)	1184 / 1064 / 944
	Air flow, Turbo / H / M / L / Si (CFM)	353.2 / 312.0 / 282.5 / 247.2 / 176.6
	Approx. Air Throw Range ft (m)	23.0 / 7
	Noise level, Turbo / H / M / L / Si (dB(A))	N/A / 43.0 / 37.5 / 26.0 / 22.0
	Net weight (lbs / kg)	45.19 / 20.5
ODU	Gross weight (lbs / kg)	82.45 / 37.4
	Drain pipe diameter (mm)	ODΦ25mm
	Fan motor model	ZKFN-34-10-1L
	Fan motor qty (ea)	1
	Fan motor input (W)	50
	Fan motor speed (RPM)	800 / 700 / 600
	Air flow, Max (CFM)	1236.1
	Noise level, Max (dB(A))	54.5
	Net weight (lbs / kg)	62.17 / 28.2
	Gross weight (lbs / kg)	67.68 / 30.7

Accessories

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

Standard Parts

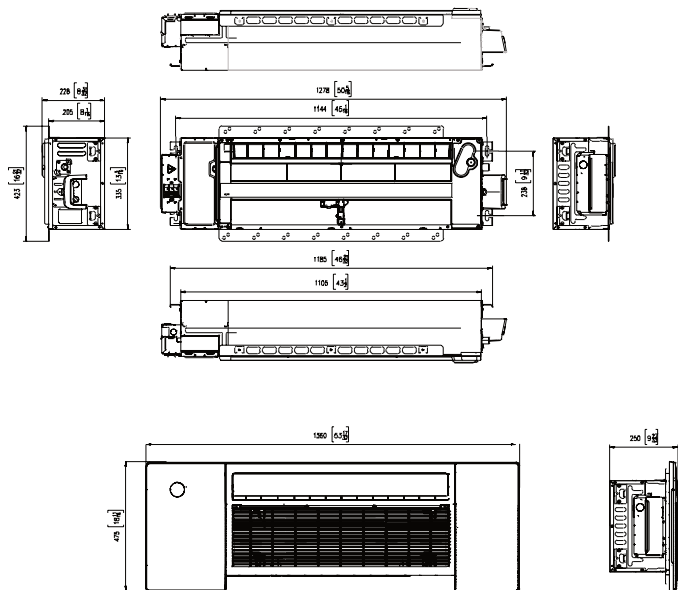
8-733-969-065	Remote Control
---------------	----------------

Climate 5000 Series - Gen 4

12K Btu Single Zone Regular System - 1-Way Cassette IDU

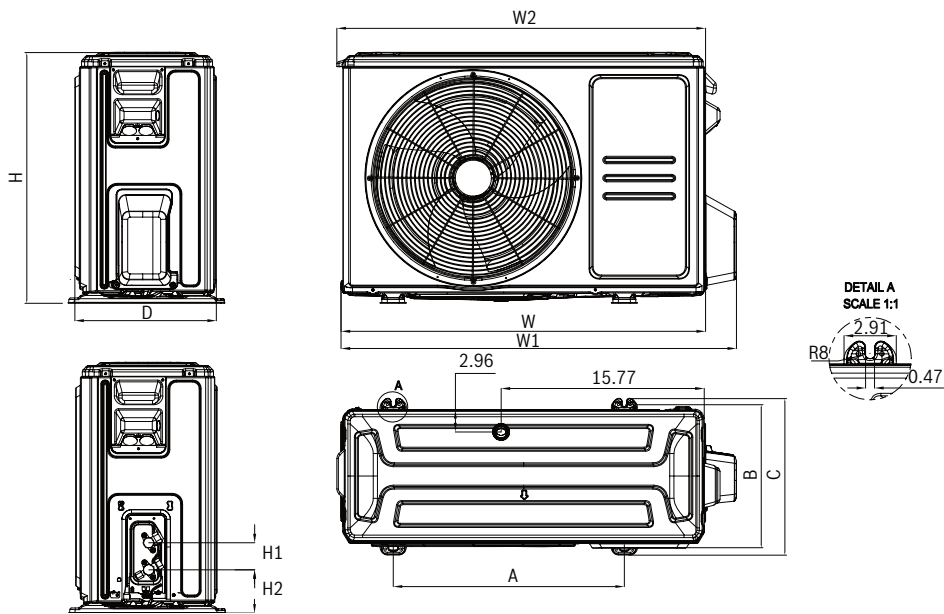


Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU012-1AHZXD	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-AAS012-1CSXRD	30.12	11.9	21.85	32.9	30.87	17.8	11.26	12.36	2.36	3.67