

Climate 5000 Series - Gen 4

12K BTU Single Zone Regular System

4-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 - 4-Way Cassette IDU

Indoor part number 8-733-962-717

Indoor model number BMS500-AAU012-1AHCXD

Outdoor part number 8-733-962-685

Outdoor model number BMS500-AAS012-1CSXRD

Efficiency Data AHRI 210/240 2023

SEER2 21.1

EER2 12.5

HSPF2 Region IV 10.4

HSPF2 Region V 7.9

COP(47F) 3.55

COP (5F) 2.40

Performance Data AHRI 210/240 2023

Cooling	Capacity Range	3700~14000
	Rated Capacity	12000
	Current	4.3
	Input Power	968

Heating	Capacity Range	4700~15000
	Rated Capacity (47F)	12000
	Rated Capacity (5F)	8400
	Current	4.3
	Input Power	991

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 per ft (oz/g) 0.16 / 4.54

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) 2.32

IDU	Fan motor model	ZKFN-45-8-2
	Fan motor qty (ea)	1
	Fan motor input (W)	50.0
	Fan speed (RPM)	700 / 600 / 400
	Air flow, Turbo / H / M / L / Si (CFM)	417.9 / 364.9 / 306.1 / 194.2 / 147.2
	Approx. Air Throw Range ft (m)	9.8 / 3
	Noise level, Turbo / H / M / L / Si (dB(A))	46 / 42.0 / 38.5 / 26.5 / 24.0
	Net weight (lbs / kg)	35.27 / 16.0
	Gross weight (lbs / kg)	41.89 / 19.0
	Panel net weight (lbs / kg)	5.95 / 2.7
ODU	Gross panel weight (lbs / kg)	9.48 / 4.3
	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-CCG-XXD (8733962708) Decorative Grille - 9K ~ 18K

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

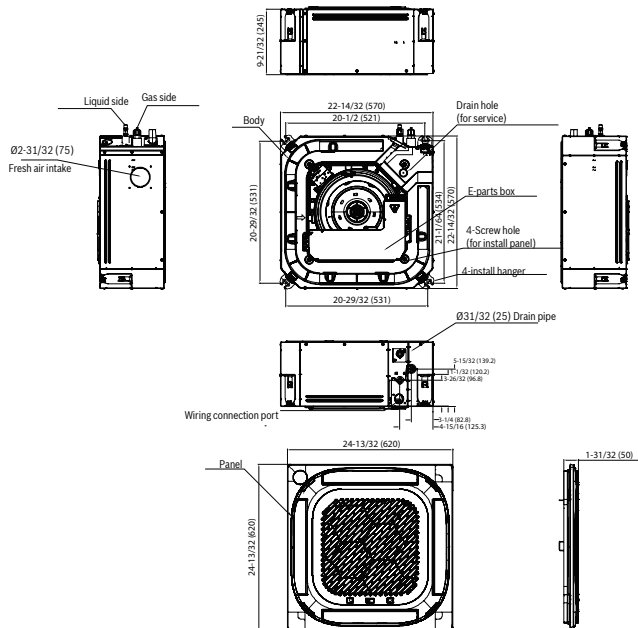
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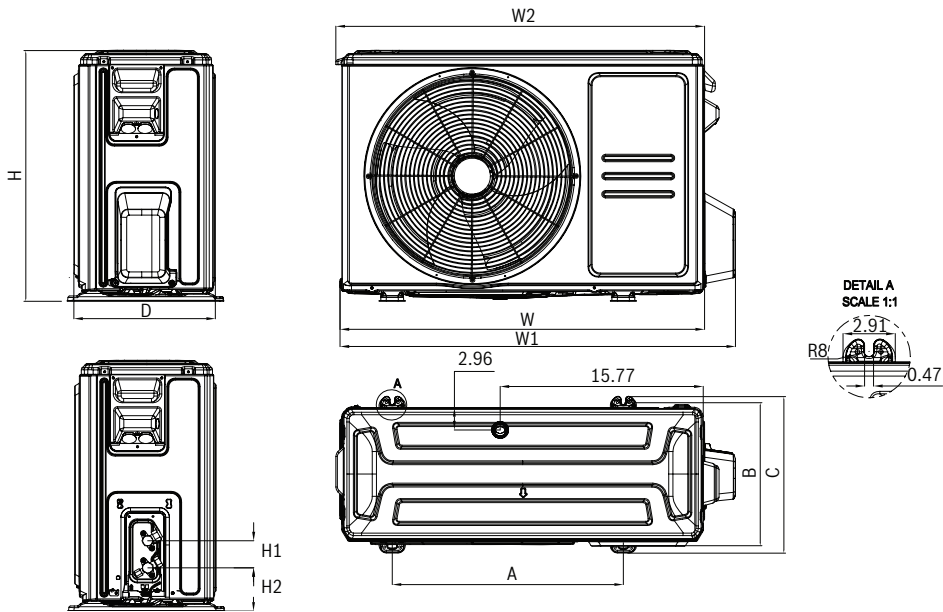
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Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU012-1AHCXD	22.44	22.44	9.65

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