

Climate 5000 Series - Gen 4

36K BTU Single Zone Regular Light Commercial System

4-Way Cassette IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

36K Btu Single Zone Regular Light Commercial System - 4-Way Cassette IDU

Indoor part number	8-733-962-682
Indoor model number	BMS500-AAU036-1AHCXD
Outdoor part number	8-733-962-692
Outdoor model number	BMS500-AAS036-1CSXLD

Efficiency Data AHRI 210/240 2023

SEER2	20.0
EER2	9.6
HSPF2 Region IV	10.3
HSPF2 Region V	7.9
COP(47F)	3.31
COP (5F)	2.20

Performance Data AHRI 210/240 2023

Cooling	Capacity Range	6400~39800
	Rated Capacity	36000
	Current	16.4
	Input Power	3720
Heating	Capacity Range	14400~42200
	Rated Capacity (47F)	38000
	Rated Capacity (5F)	26600
	Current	15.0
	Input Power	3365

Electrical Data

Power supply (V / Ø / Hz)	208-230 / 1 / 60
Min. circuit ampacity indoor/outdoor (A)	3.0 / 33.0
Max. fuse indoor/outdoor (A)	15.0 / 35.0

Compressor Data

Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74 / 1000
Input (W)	2765
Rated current (RLA/A)	5.4

Piping

Refrigerant precharge (oz/kg)	91.71 / 2.60
Length for precharge (ft/m)	24.6 / 7.5
Liquid side (in/mm)	3/8" / Ø9.52
Gas side (in/mm)	3/4" / Ø19.0
Additional Charge of Refrigerant (oz/ft)/(g/m)	0.32 / 30
Max. refrigerant pipe length (ft/m)	246.00 / 75
Max. difference in height (ft/m)	98.40 / 30

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)		8.94
IDU	Fan motor model	ZKFN-125-8-1
	Fan motor qty (ea)	1
	Fan motor input (W)	200.0
	Fan speed (RPM)	696 / 632 / 568
	Air flow, Turbo / H / M / L / Si (CFM)	1041.8 / 947.6 / 853.5 / 753.4 / 659.2
	Approx. Air Throw Range ft (m)	13.1 / 4
	Noise level, Turbo / H / M / L / Si (dB(A))	54 / 52.5 / 47.0 / 39.5 / 36.5
	Net weight (lbs / kg)	59.30 / 26.9
	Gross weight (lbs / kg)	71.43 / 32.4
	Panel net weight (lbs / kg)	13.23 / 6
ODU	Gross panel weight (lbs / kg)	19.84 / 9
	Drain pipe diameter (mm)	ODΦ25mm
	Fan motor model	ZKFN-120-10-1L
	Fan motor qty (ea)	1
	Fan motor input (W)	170.0
	Fan motor speed (RPM)	950 / 800 / 500
	Air flow, Max (CFM)	2413.3
	Noise level, Max (dB(A))	63.0
	Net weight (lbs / kg)	152.34 / 69.1
	Gross weight (lbs / kg)	162.48 / 73.7

Accessories

BMS-RCG-XXD (8733962703)	Decorative Grille - 24K ~ 48K
BMS-WT2-XXD (8733962707)	Wired Wall Thermostat
BMS-DRY-XXD (8733969263)	24V Interface
BMS-PK3-7X1 (8733951015)	25ft Lineset

Standard Parts

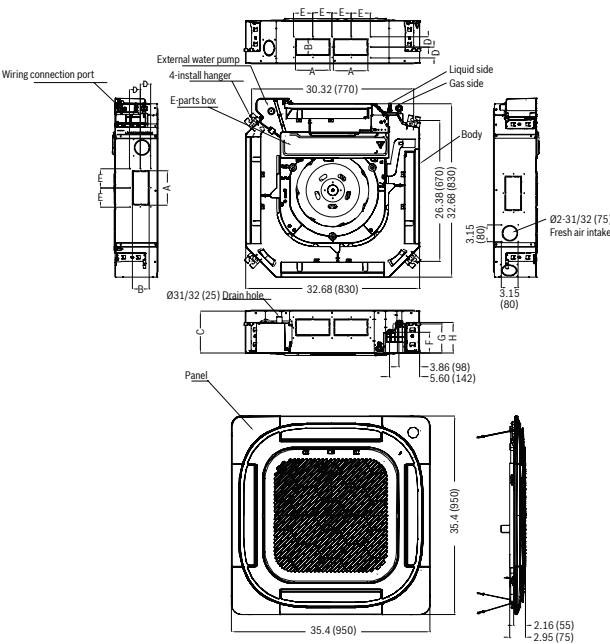
8-733-969-065	Remote Control
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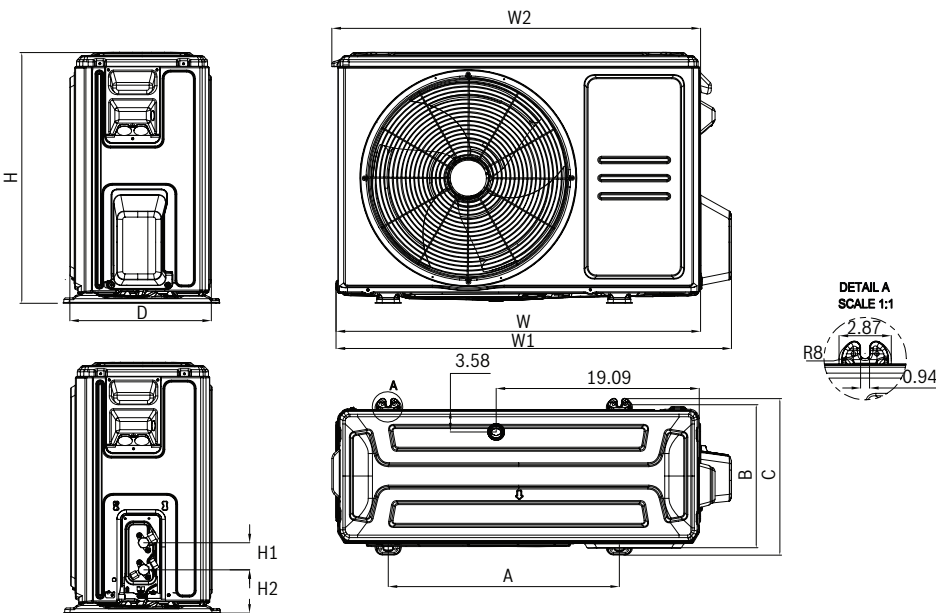


Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU036-1AHCXD	32.68	32.68	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-AAS036-1CSXLD	37.24	16.14	31.89	40.55	37.24	26.5	15.87	17.9	2.36	4.25