

Climate 5000 Series

24K BTU Single Zone Regular System

Cassette IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

24K Btu Single Zone Regular System - Cassette IDU

Indoor part number	8733956186
Indoor model number	BMS500-AAU024-1AHCXC
Outdoor part number	8733956192
Outdoor model number	BMS500-AAS024-1CSXRC

Efficiency Data	AHRI 210/240 2017	AHRI 210/240 2023
SEER	20.7	21.5
EER	12.5	12.5
HSPF Region IV	10.5	9.7
HSPF Region V	8.5	7.8
COP(47F)	3.26	3.45
COP (5F)	2.12	2.2

Performance Data	AHRI 210/240 2017	AHRI 210/240 2023
Cooling	Capacity Range	8130~26272
	Rated Capacity	24000
	Current	8.78
	Input Power	1920
Heating	Capacity Range	10650~30000
	Rated Capacity (47F)	25000
	Rated Capacity (5F)	18500
	Current	10.00
	Input Power	2210

Electrical Data

Power supply (V / Ø / Hz)	208-230 / 1 / 60
Min. circuit ampacity indoor/outdoor (A)	2.5 / 22.0
Max. fuse indoor/outdoor (A)	15.0 / 30.0

Compressor Data

Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74 / 620
Input (W)	1895
Rated current (RLA/A)	17.0

Piping

Refrigerant precharge (oz/g)	82.89 / 2350
Length for precharge (ft/m)	25 / 7.6
Liquid side (in/mm)	3/8" / Ø9.52
Gas side (in/mm)	5/8" / Ø15.9
Additional charge per ft (oz/g)	0.32 / 30
Max. refrigerant pipe length (ft/m)	164 / 50
Max. difference in height (ft/m)	82 / 25

Operation Range

ODU	Cooling (°F / °C)	-22~122 / -30~50
	Heating (°F / °C)	-22~86 / -30~30
IDU	Cooling (°F / °C)	60~90 / 16~32
	Heating (°F / °C)	32~86 / 0~30

System Data

Refrigerant type		R410A
Design pressure (PSIG)		550/340
Dehumidification (pts/hr)		5.50
IDU	Fan motor model	ZKFN-45-8-1
	Fan motor qty (ea)	1
	Fan motor input (W)	72
	Fan speed (RPM)	680 / 568 / 512
	Air flow, H / M / L (CFM)	705.88 / 635.29 / 547.06
	Approx Air Throw Range ft (m)	13 (4) ~ 30 (9)
	Noise level, H / M / L (dB(A))	49 / 46 / 43
	Net weight (lbs / kg)	47.18 / 21.4
	Gross weight (lbs / kg)	55.34 / 25.1
	Panel net weight (lbs / kg)	13.23 / 6
ODU	Gross panel weight (lbs / kg)	19.84 / 9
	Drain pipe diameter (mm)	ODΦ25
	Fan motor model	ZKFN-80-8-3
	Fan motor qty (ea)	1
	Fan motor input (W)	150.0
	Fan motor speed (RPM)	900 / 810 / 450 / 360
	Air flow, Max (CFM)	2235
	Noise level, Max (dB(A))	60.0
	Net weight (lbs / kg)	124.78 / 56.6
	Gross weight (lbs / kg)	134.92 / 61.2

Accessories

BMS-RCG-XXC (8733956205)	Decorative Grille - 24K ~ 48K
BMS-WT2-XXC (8733956180)	Wired Wall Thermostat
BMS-DRY-XXX (8733953129)	24V Interface
BMS-PK3-7X1 (8733951015)	25ft Lineset
BMS-PK3-5X1 (8733951018)	16ft Lineset

Standard Parts

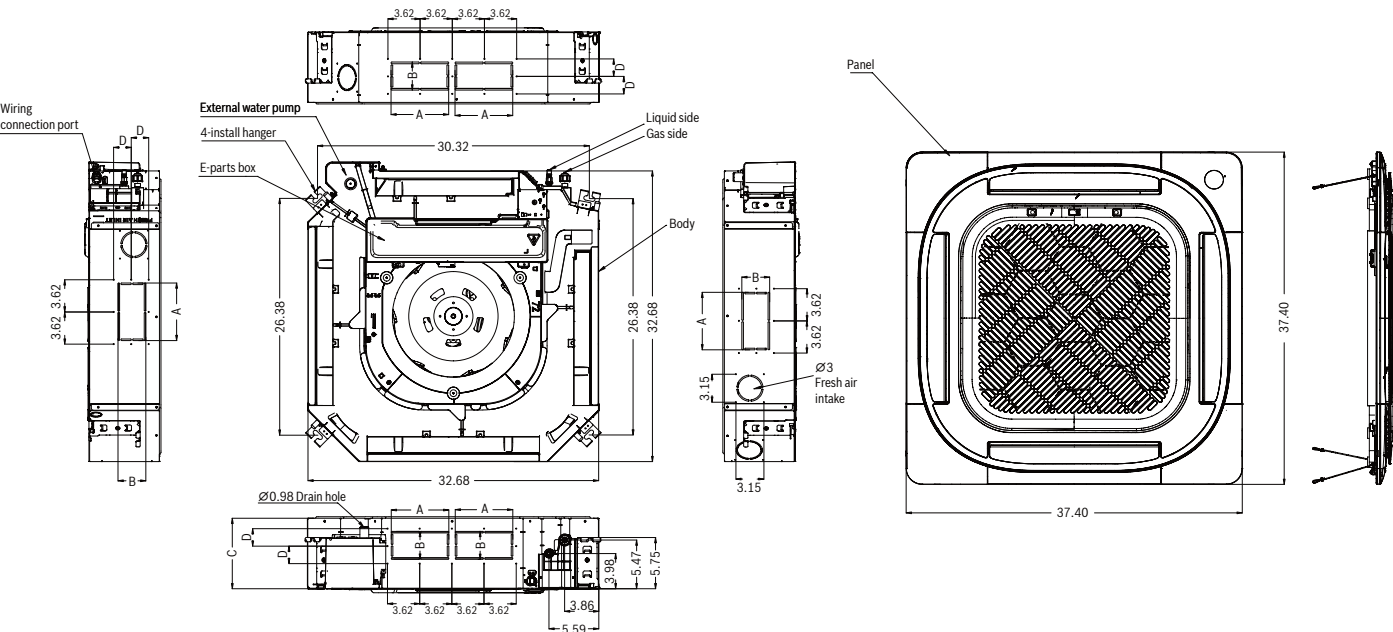
8-733-956-791	Remote Control
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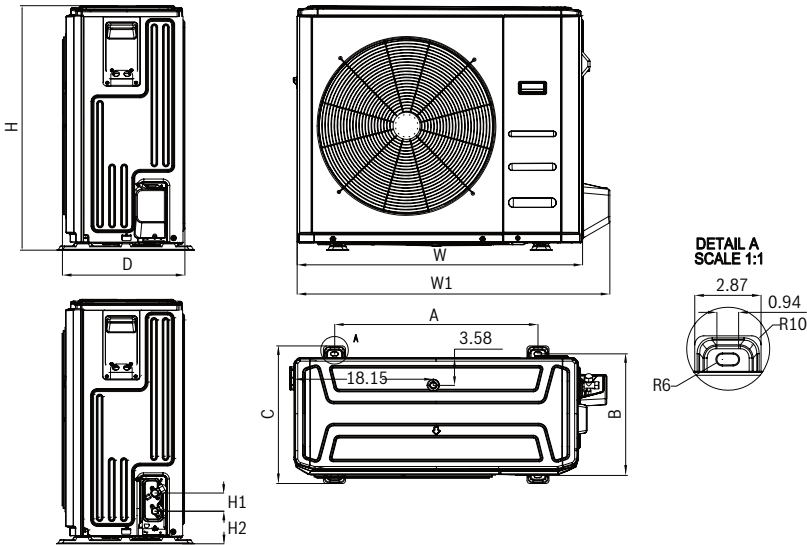
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Indoor Unit Dimensions and Connections



Model	A (in)	B (in)	C (in)	D (in)
BMS500-AAU024-1AHCXC	6.50	3.15	8.07	1.97

Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)	W1 (in)	A (in)	B (in)	C (in)
BMS500-AAS024-1CSXRC	37.24	16.14	31.89	40.55	26.5	15.87	17.9