

Climate 5000 Series - Gen 4

24K BTU Single Zone Regular System

Wall Mounted IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name	
Location	
Architect	
Engineer	
General contractor	
Reference #	

24K Btu Single Zone Regular System - Wall Mounted IDU

Indoor part number	8-733-962-675
Indoor model number	BMS500-AAU024-1AHWXD
Outdoor part number	8-733-962-687
Outdoor model number	BMS500-AAS024-1CSXRD

Efficiency Data AHRI 210/240 2023

SEER2	23
EER2	14.0
HSPF2 Region IV	11.7
HSPF2 Region V	8.7
COP(47F)	3.96
COP (5F)	2.54

Performance Data AHRI 210/240 2023

Cooling	Capacity Range	5500-29500
	Rated Capacity	24000
	Current	7.4
	Input Power	1714
Heating	Capacity Range	9900-30800
	Rated Capacity (47F)	25000
	Rated Capacity (5F)	19600
	Current	8.3
	Input Power	1852

Electrical Data

Power supply (V / Ø / Hz)	208-230 / 1 / 60
Min. circuit ampacity indoor/outdoor (A)	3.0 / 24.0
Max. fuse indoor/outdoor (A)	15.0 / 25.0

Compressor Data

Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74 / 620
Input (W)	805 / 2045
Rated current (RLA/A)	4.15 / 9.30

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

Piping

Refrigerant precharge (oz/kg)	70.55 / 2.0
Length for precharge (ft/m)	24.6 / 7.5
Liquid side (in/mm)	3/8" / Ø9.52
Gas side (in/mm)	5/8" / Ø15.9
Additional Charge of Refrigerant (oz/ft)/(g/m)	0.32 / 30
Max. refrigerant pipe length (ft/m)	164.00 / 50
Max. difference in height (ft/m)	82.00 / 25

System Data

Refrigerant type	R454B
Design pressure (PSIG)	550 / 340
Dehumidification (pts/hr)	4.87

IDU	Fan motor model	ZKFP-58-8-1-10
	Fan motor qty (ea)	1
	Fan motor input (W)	58.0
	Fan speed (RPM)	1000 / 850 / 630
	Air flow, Turbo / H / M / L / Si (CFM)	812.3 / 618.0 / 412.0 / 317.8 / /
	Approx. Air Throw Range ft (m)	29.5 / 9
	Noise level, Turbo / H / M / L / Si (dB(A))	51.5 / 43.5 / 39.5 / 21.5 / 19
	Net weight (lbs / kg)	43.65 / 19.8
ODU	Gross weight (lbs / kg)	55.56 / 25.2
	Fan motor model	ZKFN-120-10-1L
	Fan motor qty (ea)	1
	Fan motor input (W)	170
	Fan motor speed, H / M / L (RPM)	810 / 700 / 450
	Air flow, Max (CFM)	2235.3
	Noise level, Max (dB(A))	58.0
	Net weight (lbs / kg)	122.13 / 55.4
	Gross weight (lbs / kg)	132.28 / 60.0

Accessories

BMS-WT2-XXD (8733962707)	Wired Wall Thermostat
BMS-DRY-XXD (8733969263)	24V Interface
BMS-PK3-7X1 (8733951015)	25ft Lineset

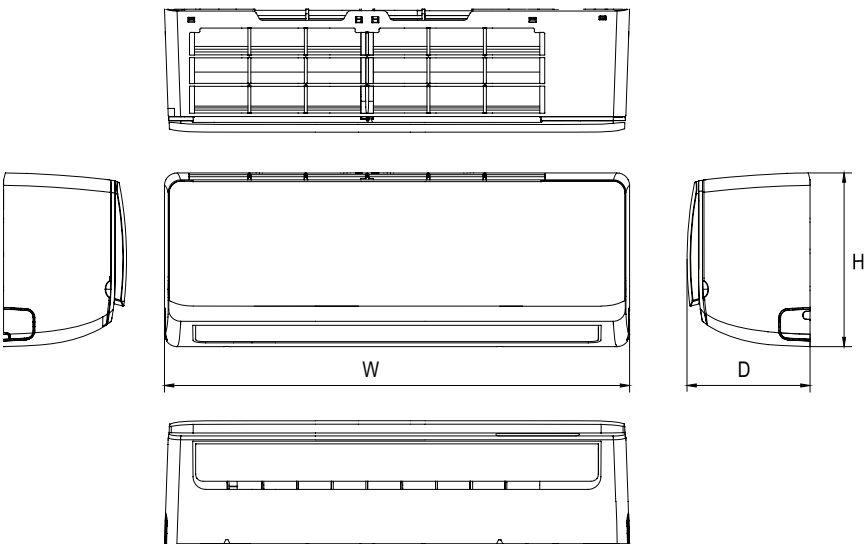
Standard Parts

8-733-969-088	Remote Control
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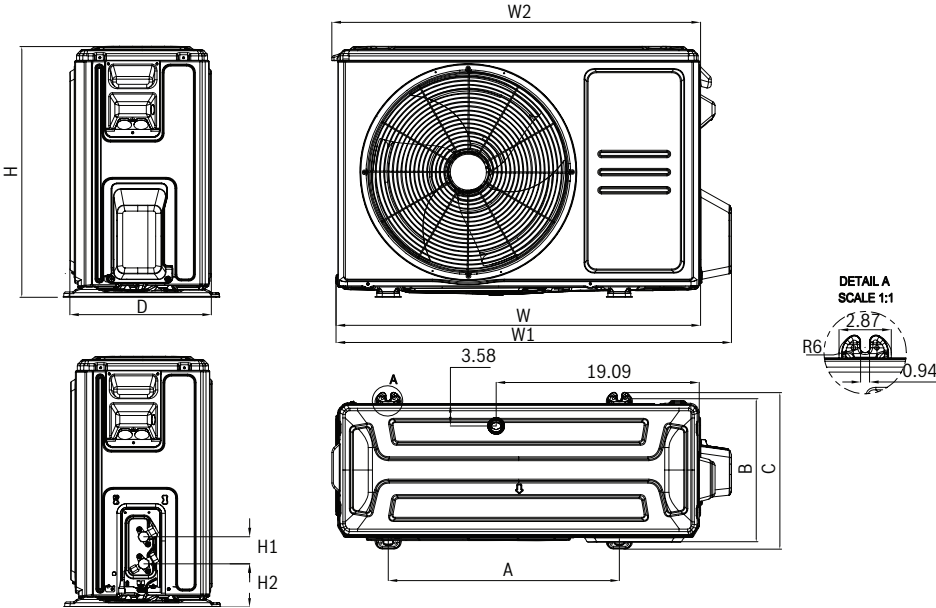


Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU024-1AHWXD	44.88	10.83	14.57

Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)	W1 (in)	W2 (in)	H1 (in)	H2 (in)	A (in)	B (in)	C (in)
BMS500-AAS024-1CSXRD	37.24	16.14	31.89	40.55	37.24	2.36	4.25	26.5	15.87	17.9