

Climate 5000 Series

24K BTU Single Zone Max Performance System

Wall Mounted IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

24K Btu Single Zone Max Performance System - Wall Mounted IDU

Indoor part number		8733956178	
Indoor model number		BMS500-AAU024-1AHWXC	
Outdoor part number		8733956196	
Outdoor model number		BMS500-AAS024-1CSXHC	
Efficiency Data		AHRI 210/240 2017	AHRI 210/240 2023
SEER		21.50	21.50
EER		13.00	13.00
HSPF Region IV		12.0	11.4
HSPF Region V		10.0	9.2
COP(47F)		3.40	3.40
COP (5F)		1.75	2.21
Performance Data		AHRI 210/240 2017	AHRI 210/240 2023
Cooling	Capacity Range	6850~27000	6850~27000
	Rated Capacity	24000	24000
	Current	8.10	8.10
	Input Power	1845	1845
Heating	Capacity Range	11900~31000	11600~33000
	Rated Capacity (47F)	29000	29000
	Rated Capacity (5F)	25400	25000
	Current	10.90	10.90
	Input Power	2500	2500
Electrical Data			
Power supply (V / Ø / Hz)		208-230 / 1 / 60	
Min. circuit ampacity indoor/outdoor (A)		3.0 / 25.0	
Max. fuse indoor/outdoor (A)		15.0 / 35.0	
Compressor Data			
Type:		Rotary	
Refrigerant oil /oil charge (ml)		VG74 / 620	
Input (W)		1895	
Rated current (RLA/A)		19.0	
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	

Piping

Refrigerant precharge (oz/g)	91.7 / 2600
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

System Data

Refrigerant type	R410A
Design pressure (PSIG)	550/340
Dehumidification (pts/hr)	5.50

IDU	Fan motor model	ZKFP-58-8-1-5
	Fan motor qty (ea)	1
	Fan motor input (W)	64.1
	Fan speed (RPM)	1000 / 852 / 778
	Air flow, H / M / L (CFM)	611.18 / 414.12 / 318.82
	Approx. Air Throw Range ft (m)	4.9(1.5)~31(9.5)
ODU	Noise level, H / M / L (dB(A))	46 / 39 / 34
	Net weight (lbs / kg)	48.50 / 22.0
	Gross weight (lbs / kg)	59.30 / 26.9
	Fan motor model	ZKFN-120-8-2
	Fan motor qty (ea)	1
	Fan motor input (W)	150.0
ODU	Fan motor speed, H / L (RPM)	1150 / 1050 / 900 / 850
	Air flow, Max (CFM)	2235.3
	Noise level, Max (dB(A))	62.0
	Net weight (lbs / kg)	134.48 / 61
ODU	Gross weight (lbs / kg)	144.40 / 65.5

Accessories

BMS-WT1-XXC (8733956179)	Wired Wall Thermostat
BMS-DRY-XXX (8733953129)	24V Interface
BMS-PK3-7X1 (8733951015)	25ft Lineset
BMS-PK3-5X1 (8733951018)	16ft Lineset

Standard Parts

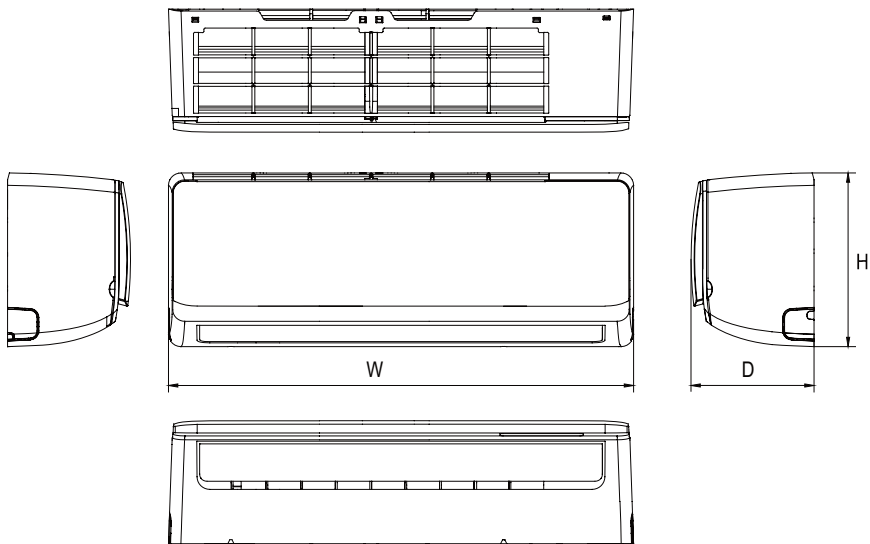
8-733-956-822	Remote Control
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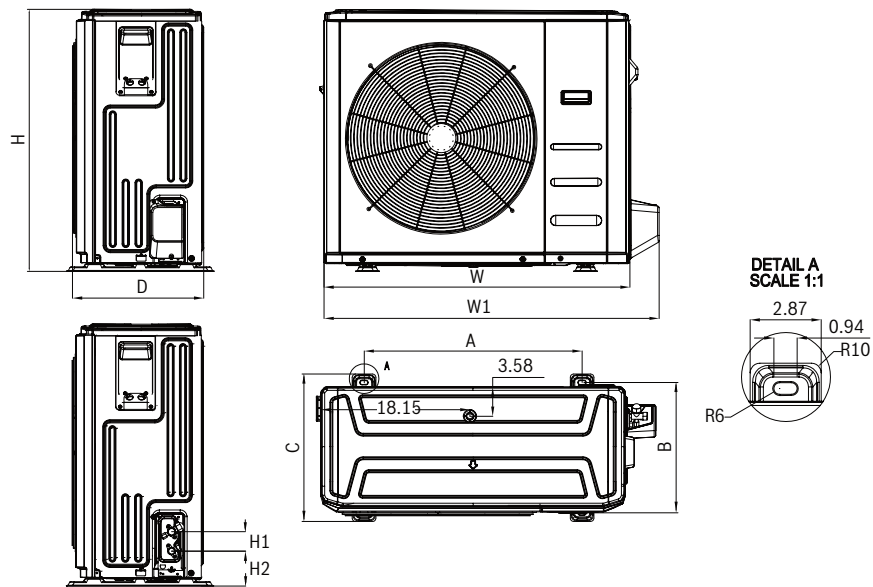
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Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU024-1AHWXC	46.9	11.0	14.6

Outdoor Unit Dimensions and Connections



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