

Climate 5000 Series

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		8733956178	
Indoor model number		BMS500-AAU024-1AHWXC	
Outdoor part number		8733956192	
Outdoor model number		BMS500-AAS024-1CSXRC	
Efficiency Data		AHRI 210/240 2017	AHRI 210/240 2023
SEER		22.00	22.00
EER		14.00	14.00
HSPF Region IV		12.0	10.0
HSPF Region V		10.0	7.2
COP(47F)		3.75	3.75
COP (5F)		1.90	1.80
Performance Data		AHRI 210/240 2017	AHRI 210/240 2023
Cooling	Capacity Range	9200~26800	9200~26800
	Rated Capacity	24000	24000
	Current	8.00	8.00
	Input Power	1714	1714
Heating	Capacity Range	10350~27000	10350~27000
	Rated Capacity (47F)	25000	25000
	Rated Capacity (5F)	15800	15500
	Current	8.70	8.70
	Input Power	1953	1953
Electrical Data			
Power supply (V / Ø / Hz)		208-230 / 1 / 60	
Min. circuit ampacity indoor/outdoor (A)		3.0 / 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	
Operation Range			
ODU	Cooling (°F / °C)	-13~122 / -25~50	
	Heating (°F / °C)	-13~86 / -25~30	
IDU	Cooling (°F / °C)	60~90 / 16~32	
	Heating (°F / °C)	32~86 / 0~30	

Piping

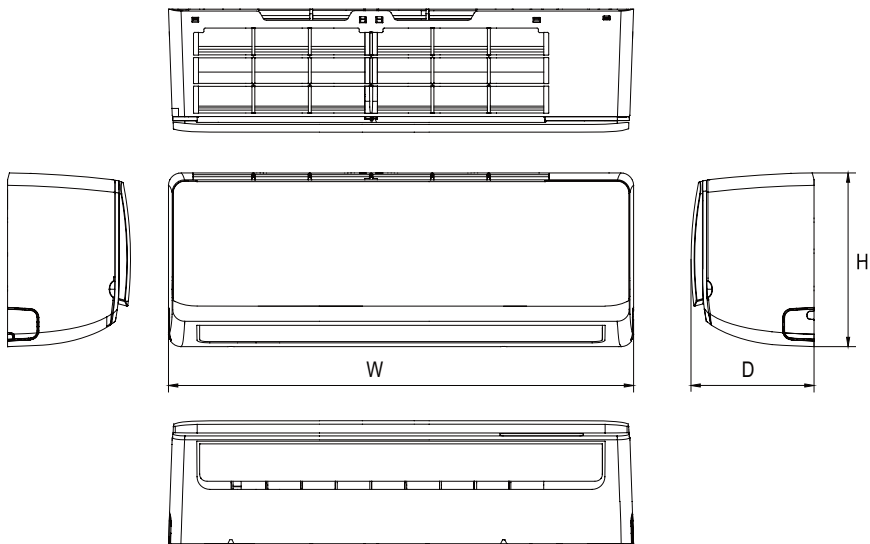
Refrigerant precharge (oz/g)		82.89 / 2350
Length for precharge (ft/m)		25 / 7.6
Liquid side (in/mm)		3/8" / Ø9.52
Gas side (in/mm)		5/8" / Ø15.9
Additional charge per ft (oz/g)		0.32 / 30
Max. refrigerant pipe length (ft/m)		164 / 50
Max. difference in height (ft/m)		82 / 25
System Data		
Refrigerant 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
	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)
	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
ODU	Fan motor model	ZKFN-120-8-2
	Fan motor qty (ea)	1
	Fan motor input (W)	150.0
	Fan motor speed, H / L (RPM)	900 / 810 / 450 / 360
	Air flow, Max (CFM)	2235.3
	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-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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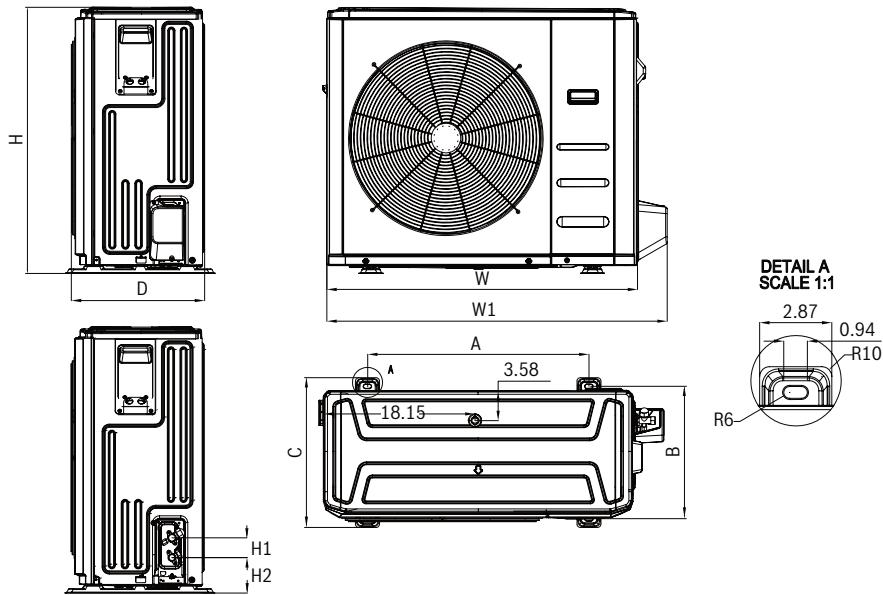
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Indoor Unit Dimensions and Connections



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-AAS024-1CSXRC	37.24	16.14	31.89	40.55	2.36	4.25	26.5	15.87	17.9