

Climate 5000 Series

36K BTU Single Zone Light Commercial System

Wall Mounted IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name	
Location	
Architect	
Engineer	
General contractor	
Reference #	

36K Btu Single Zone Light Commercial System - Wall Mounted IDU

Indoor part number		8733956184	
Indoor model number		BMS500-AAU036-1AHWXC	
Outdoor part number		8733956185	
Outdoor model number		BMS500-AAS036-1CSXRC	
Efficiency Data		AHRI 210/240 2017	AHRI 210/240 2023
SEER		17.50	20.0
EER		8.50	8.50
HSPF Region IV		9.0	8.0
HSPF Region V		7.4	6.4
COP(47F)		2.51	2.51
COP (5F)		1.75	1.85
Performance Data		AHRI 210/240 2017	AHRI 210/240 2023
Cooling	Capacity Range	9300~38800	9300~38800
	Rated Capacity	36000	36000
	Current	18.50	18.50
	Input Power	4235	4235
Heating	Capacity Range	11570~37000	11570~37000
	Rated Capacity (47F)	36000	36000
	Rated Capacity (5F)	20400	20000
	Current	18.30	18.30
	Input Power	4200	4200
Electrical Data			
Power supply (V / Ø / Hz)		208-230 / 1 / 60	
Min. circuit ampacity indoor/outdoor (A)		3.0 / 28.0	
Max. fuse indoor/outdoor (A)		15.0 / 35.0	
Compressor Data			
Type:		Rotary	
Refrigerant oil /oil charge (ml)		VG74 / 670	
Input (W)		2080	
Rated current (RLA/A)		22.0	
Operation Range			
ODU	Cooling (°F / °C)	5~122 / -15~50	
	Heating (°F / °C)	5~86 / -15~30	
IDU	Cooling (°F / °C)	60~90 / 16~32	
	Heating (°F / °C)	32~86 / 0~30	

Piping

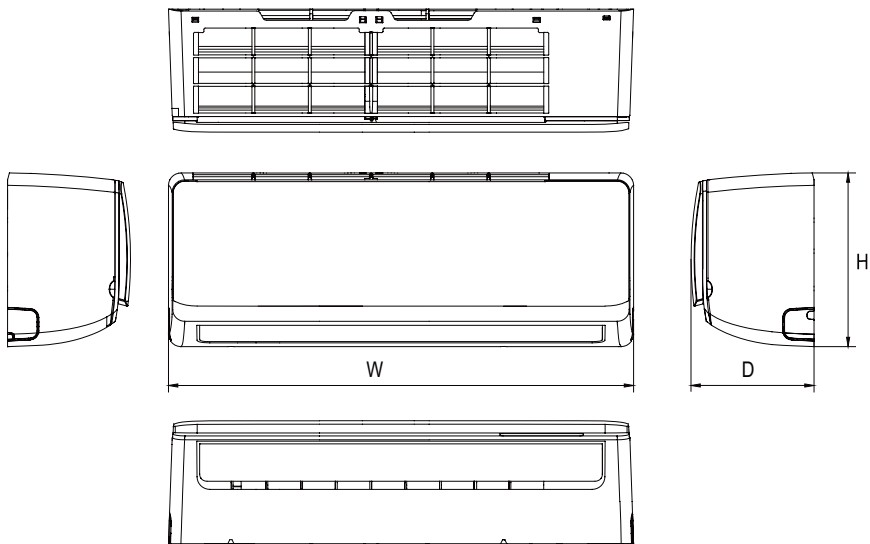
Refrigerant precharge (oz/g)		119.9 / 3400	
Length for precharge (ft/m)		25 / 7.6	
Liquid side (in/mm)		3/8" / Ø9.52	
Gas side (in/mm)		5/8" / Ø15.9	
Additional charge per ft (oz/g)		0.32 / 30	
Max. refrigerant pipe length (ft/m)		213 / 65	
Max. difference in height (ft/m)		98 / 30	
System Data			
Refrigerant type		R410A	
Design pressure (PSIG)		550/340	
Dehumidification (pts/hr)		8.45	
IDU	Fan motor model	ZKFP-58-8-1-5	
	Fan motor qty (ea)	1	
	Fan motor input (W)	64	
	Fan speed (RPM)	1050 / 882 / 798	
	Air flow, H / M / L (CFM)	639.41 / 505.88 / 382.35	
	Approx. Air Throw Range ft (m)	4.9(1.5)~33.5(10.2)	
	Noise level, H / M / L (dB(A))	47.5 / 42 / 35.5	
ODU	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	
	Fan motor speed, H / L (RPM)	1150 / 1050 / 900 / 850	
	Air flow, Max (CFM)	2235	
Accessories	Noise level, Max (dB(A))	61.5	
	Net weight (lbs / kg)	150.13 / 68.1	
	Gross weight (lbs / kg)	158.95 / 72.1	
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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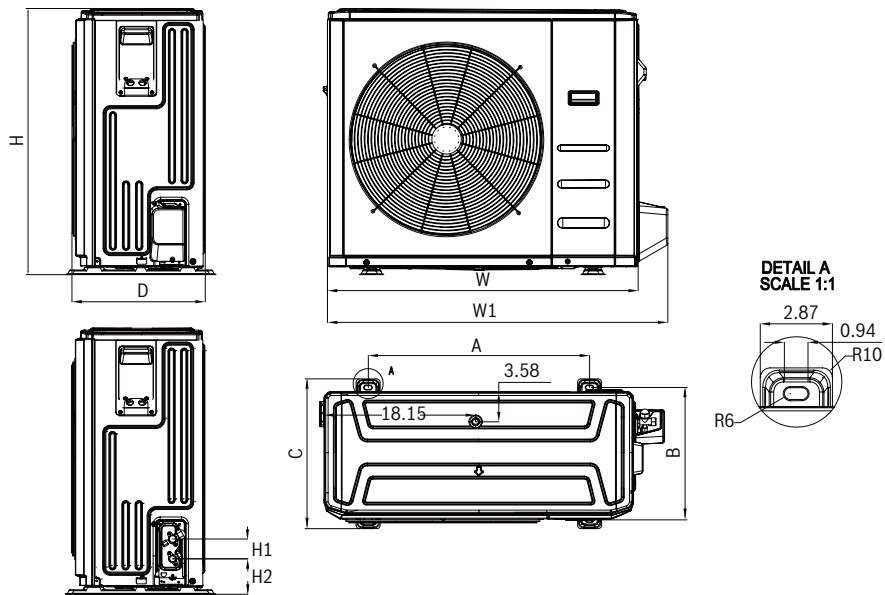
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Indoor Unit Dimensions and Connections



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