

Climate 5000 Series

12K 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 #

12K Btu Single Zone Max Performance System - Wall Mounted IDU

Indoor part number		8733956176	
Indoor model number		BMS500-AAU012-1AHWXC	
Outdoor part number		8733956194	
Outdoor model number		BMS500-AAS012-1CSXHC	
Efficiency Data		AHRI 210/240 2017	AHRI 210/240 2023
SEER		25.50	25.50
EER		14.00	14.00
HSPF Region IV		13.0	10.4
HSPF Region V		10.5	8.0
COP(47F)		3.88	3.88
COP (5F)		1.80	1.8
Performance Data		AHRI 210/240 2017	AHRI 210/240 2023
Cooling	Capacity Range	3300~14300	3300~14300
	Rated Capacity	12000	12000
	Current	3.72	3.72
	Input Power	857	857
Heating	Capacity Range	5000~15300	5000~15300
	Rated Capacity (47F)	12000	12000
	Rated Capacity (5F)	10500	12000
	Current	4.10	4.10
	Input Power	907	907
Electrical Data			
Power supply (V / Ø / Hz)		208-230 / 1 / 60	
Min. circuit ampacity indoor/outdoor (A)		3.0/15.0	
Max. fuse indoor/outdoor (A)		15.0/15.0	
Compressor Data			
Type:		Rotary	
Refrigerant oil /oil charge (ml)		VG74 / 350	
Input (W)		830	
Rated current (RLA/A)		9.96	
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)	41.62 / 1180
Length for precharge (ft/m)	25 / 7.6
Liquid side (in/mm)	1/4" / Ø6.35
Gas side (in/mm)	1/2" / Ø12.7
Additional charge per ft (oz/g)	0.16 / 15
Max. refrigerant pipe length (ft/m)	98 / 30
Max. difference in height (ft/m)	66 / 20

System Data

Refrigerant type		R410A
Design pressure (PSIG)		550/340
Dehumidification (pts/hr)		2.54
IDU	Fan motor model	ZKFP-20-8-6-7
	Fan motor qty (ea)	1
	Fan motor input (W)	50
	Fan speed (RPM)	1000 / 852 / 778
	Air flow, H / M / L (CFM)	335.29 / 229.41 / 176.47
	Approx. Air Throw Range ft (m)	4.9(1.5)-31(9.5)
	Noise level, H / M / L (dB(A))	38 / 33.5 / 23.5
	Net weight (lbs / kg)	25.57 / 11.6
ODU	Gross weight (lbs / kg)	30.86 / 14.0
	Fan motor model	ZKFN-34-10-1-3
	Fan motor qty (ea)	1
	Fan motor input (W)	100.3
	Fan motor speed, H / L (RPM)	850 / 680 / 450
	Air flow, Max (CFM)	1324
	Noise level, Max (dB(A))	56.0
	Net weight (lbs / kg)	73.63 / 33.4
	Gross weight (lbs / kg)	79.37 / 36.0

Accessories

BMS-WT1-XXC (8733956179)	Wired Wall Thermostat
BMS-DRY-XXX (8733953129)	24V Interface
BMS-PK2-7X1 (8733951011)	25ft Lineset
BMS-PK2-5X1 (8733951017)	16ft Lineset

Standard Parts

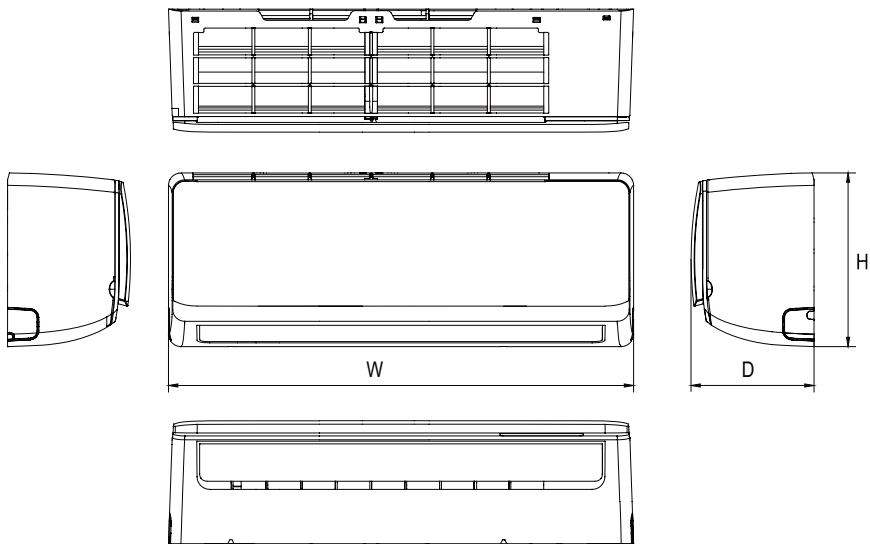
8-733-956-822	Remote Control
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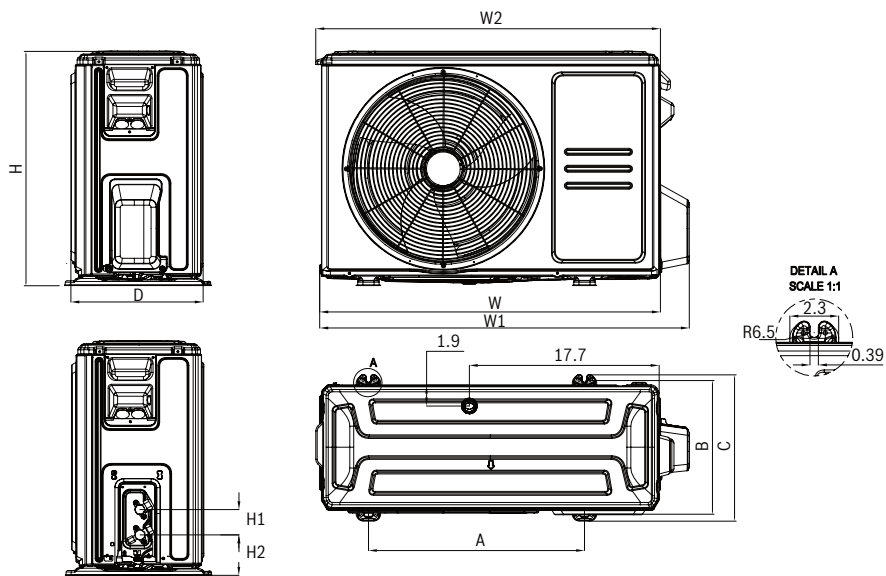
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Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU012-1AHWXC	33.4	9.1	11.7

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-AAS012-1CSXHC	31.7	13.0	21.8	34.4	32.1	2.4	3.8	20.1	12.5	13.6