

Climate 5000 Series

12K BTU Single Zone Regular System

Cassette IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

12K Btu Single Zone Regular System - Cassette IDU

Indoor part number		8733953110	
Indoor model number		BMS500-AAU012-1AHCXB	
Outdoor part number		8733956190	
Outdoor model number		BMS500-AAS012-1CSXRC	
Efficiency Data		AHRI 210/240 2017	AHRI 210/240 2023
SEER		22	22.7
EER		14	14.0
HSPF Region IV		10.6	10.0
HSPF Region V		9	7.8
COP(47F)		3.37	3.37
COP (5F)		1.89	2.27
Performance Data		AHRI 210/240 2017	AHRI 210/240 2023
Cooling	Capacity Range	2800~14100	2800~14100
	Rated Capacity	12000	12000
	Current	3.92	3.92
	Input Power	857	857
Heating	Capacity Range	1950~14600	1950~14600
	Rated Capacity (47F)	12000	12000
	Rated Capacity (5F)	7400	8000
	Current	4.78	4.78
	Input Power	1045	1045
Electrical Data			
Power supply (V / Ø / Hz)		208-230 / 1 / 60	
Min. circuit ampacity indoor/outdoor (A)		3.0 / 13.0	
Max. fuse indoor/outdoor (A)		15.0 / 15.0	
Compressor Data			
Type:		Rotary	
Refrigerant oil /oil charge (ml)		VG74 / 310	
Input (W)		790	
Rated current (RLA/A)		8.0	
Piping			
Refrigerant precharge (oz/g)			38.1 / 1080
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

Operation Range

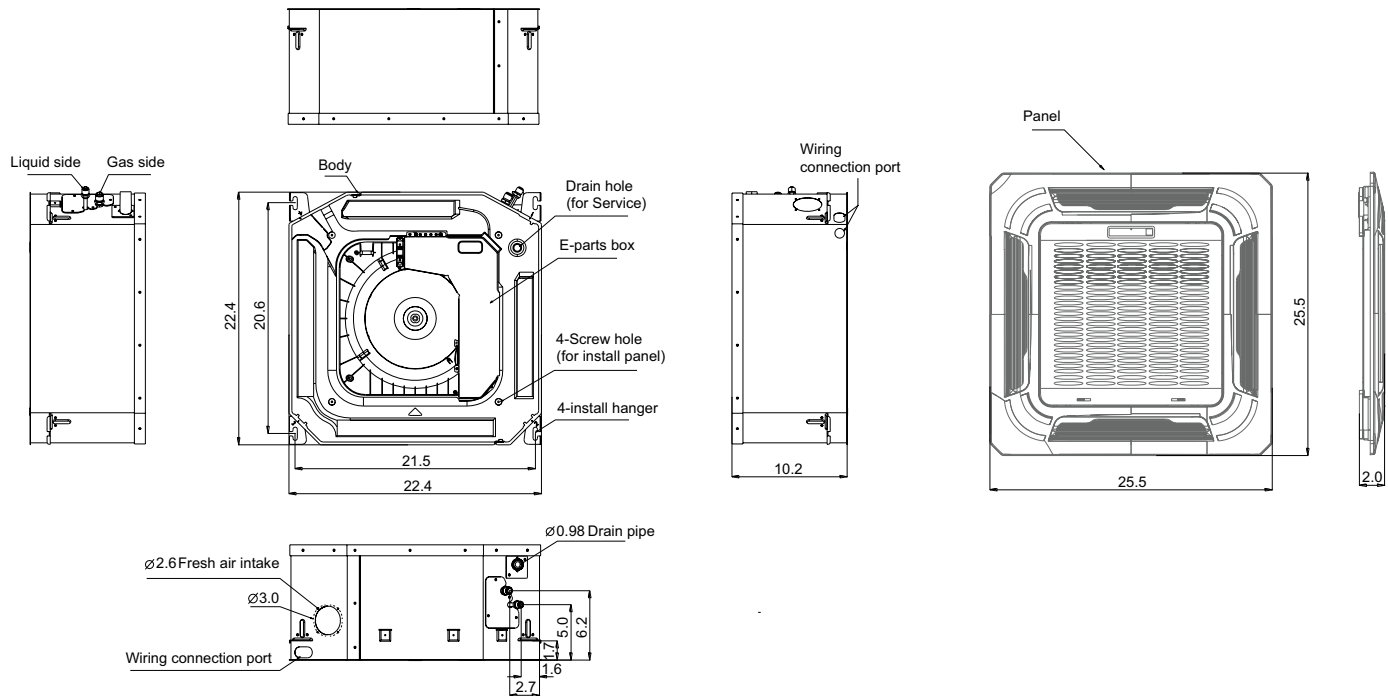
ODU	Cooling (°F / °C)	-13~122 / -25~50
	Heating (°F / °C)	-13~86 / -25~30
IDU	Cooling (°F / °C)	60~90 / 16~32
	Heating (°F / °C)	32~86 / 0~30
System Data		
Refrigerant type		R410A
Design pressure (PSIG)		550/340
Dehumidification (pts/hr)		2.54
IDU	Fan motor model	ZKFN-46-8-1
	Fan motor qty (ea)	1
	Fan motor input (W)	45
	Fan speed (RPM)	680 / 580 / 500
	Air flow, H / M / L (CFM)	379 / 309 / 261
	Approx Air Throw Range ft (m)	11(3.5)-23(7)
	Noise level, H / M / L (dB(A))	40.5 / 35.5 / 31.5
	Net weight (lbs / kg)	35.27 / 16
	Gross weight (lbs / kg)	41.01 / 18.6
	Panel net weight (lbs / kg)	5.52 / 2.5
ODU	Gross panel weight (lbs / kg)	9.92 / 4.5
	Drain pipe diameter (mm)	ODΦ25
	Fan motor model	ZKFN-34-10-1-3
	Fan motor qty (ea)	1
	Fan motor input (W)	100.3
	Fan motor speed (RPM)	800 / 600
	Air flow, Max (CFM)	1294.1
	Noise level, Max (dB(A))	53.5
	Net weight (lbs / kg)	63.71 / 28.9
	Gross weight (lbs / kg)	69.00 / 31.3
Accessories		
BMS-CCG-XXX (8733953125)		Decorative Grille - 9K ~ 18K
BMS-WT2-XXC (8733956180)		Wired Wall Thermostat
BMS-DRY-XXX (8733953129)		24V Interface
BMS-PK2-7X1 (8733951011)		25ft Lineset
BMS-PK2-5X1 (8733951017)		16ft Lineset
Standard Parts		
8-733-953-578		Remote Control

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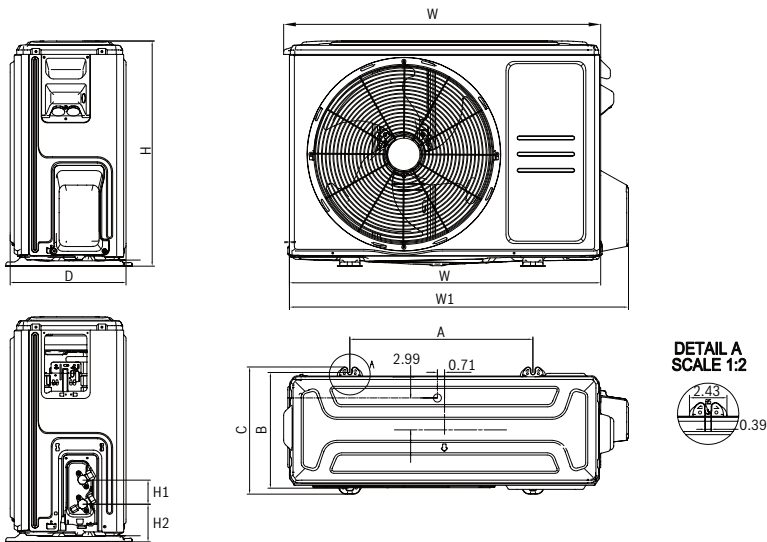


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Indoor Unit Dimensions and Connections



Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)	W1 (in)	W2 (in)	A (in)	B (in)	C (in)	A1 (in)	A2 (in)
BMS500-AAS012-1CSXRC	30.12	11.26	21.85	33.0	30.87	17.8	11.26	12.36	2.43	0.39