

Climate 5000 Series

115V – 12K BTU Single Zone Regular System

Wall Mounted IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

115V - 12K Btu Single Zone Regular Heat System - Wall Mounted IDU

Indoor part number	8733956173
Indoor model number	BMS500-AAS012-0AHWXC
Outdoor part number	8733956174
Outdoor model number	BMS500-AAS012-0CSXRC

Efficiency Data	AHRI 210/240 2017	AHRI 210/240 2023
SEER	23.00	23.50
EER	13.00	13.00
HSPF Region IV	11.6	10.0
HSPF Region V	9.0	7.4
COP(47F)	3.52	3.52
COP (5F)	2.18	2.16

Performance Data	AHRI 210/240 2017	AHRI 210/240 2023
Cooling	Capacity Range	3500~13200
	Rated Capacity	12000
	Current	8.00
	Input Power	923
Heating	Capacity Range	5000~12200
	Rated Capacity (47F)	12000
	Rated Capacity (5F)	7100
	Current	8.70
	Input Power	1000

Electrical Data

Power supply (V / Ø / Hz)	115 / 1 / 60
Min. circuit ampacity indoor/ outdoor (A)	3.0 / 19.0
Max. fuse indoor/outdoor (A)	15.0 / 25.0

Compressor Data

Type:	Rotary
Refrigerant oil /oil charge (ml)	VG74 / 310
Input (W)	790
Rated current (RLA/A)	14.00

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)	39.5 / 1120
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-20-8-113
	Fan motor qty (ea)	1
	Fan motor input (W)	35
	Fan speed (RPM)	1100 / 912 / 818
	Air flow, H / M / L (CFM)	352.94 / 294.12 / 235.29
	Approx. Air Throw Range ft (m)	4.9(1.5)~31(9.5)
	Noise level, H / M / L (dB(A))	40.5 / 35 / 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 / 600
	Air flow, Max (CFM)	794
	Noise level, Max (dB(A))	54.0
	Net weight (lbs / kg)	66.80 / 30.3
	Gross weight (lbs / kg)	72.31 / 32.8

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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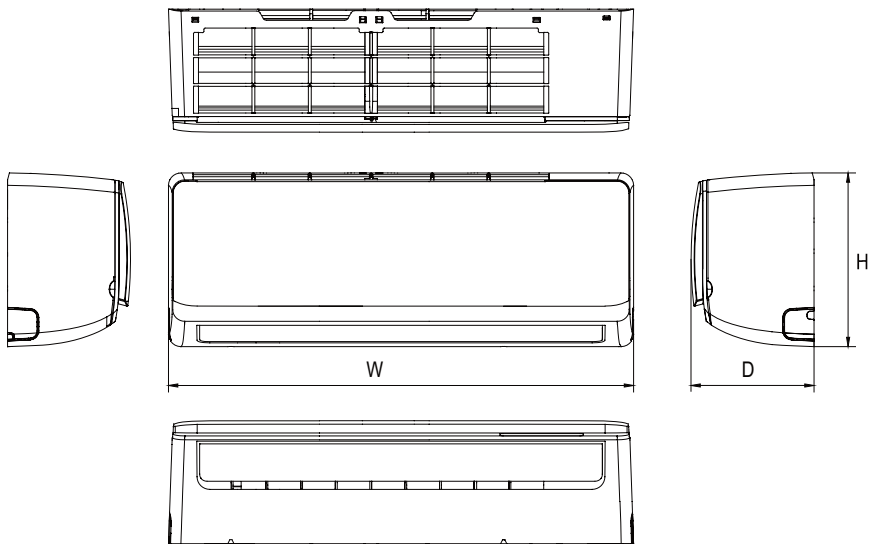
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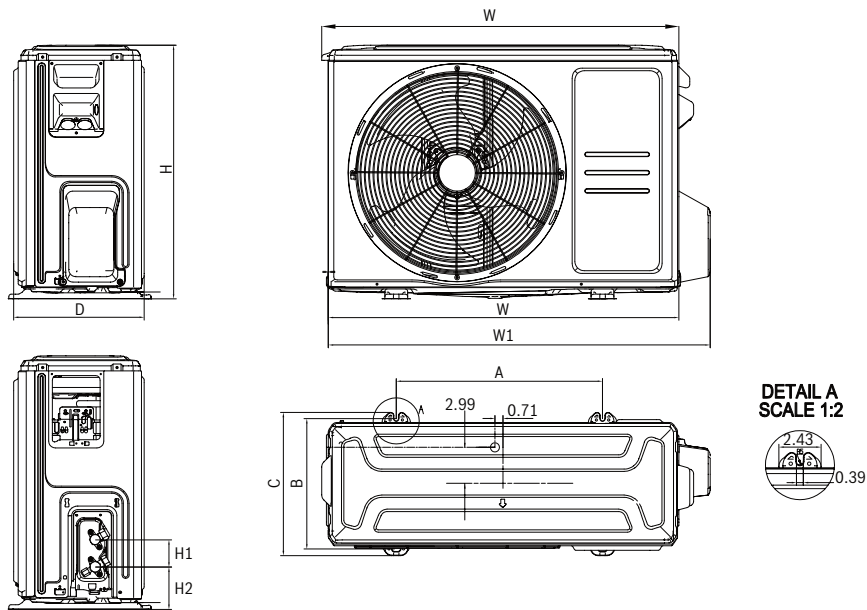
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Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAS012-0AHWC	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-AAS012-0CSXRC	30.12	11.26	21.85	33.0	30.87	2.36	3.67	17.8	11.26	12.36