

Climate 5000 Series - Gen 4

115V - 12K BTU Single Zone Regular System

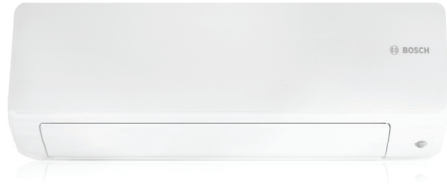
Wall Mounted IDU

Engineering
 Submittal
 Sheet



BOSCH

Overview and Project Information



Project name	
Location	
Architect	
Engineer	
General contractor	
Reference #	

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

Indoor part number		8-733-962-670
Indoor model number		BMS500-AAS012-0AHWXD
Outdoor part number		8-733-962-671
Outdoor model number		BMS500-AAS012-0CSXRD
Efficiency Data		AHRI 210/240 2023
SEER2		23.4
EER2		13
HSPF2 Region IV		9.5
HSPF2 Region V		7.0
COP(47F)		3.70
COP (5F)		2.33
Performance Data		AHRI 210/240 2023
Cooling	Capacity Range	2600~13000
	Rated Capacity	12000
	Current	10.3
	Input Power	923
Heating	Capacity Range	4600~13600
	Rated Capacity (47F)	12000
	Rated Capacity (5F)	7700
	Current	10.5
	Input Power	950
Electrical Data		
Power supply (V / Ø / Hz)		115 / 1 / 60
Min. circuit ampacity indoor/outdoor (A)		3.0 / 18.0
Max. fuse indoor/outdoor (A)		15.0 / 20.0
Compressor Data		
Type:		Rotary
Refrigerant oil /oil charge (ml)		VG74 / 310
Input (W)		325 / 826
Rated current (RLA/A)		2.40 / 5.65
Operation Range		
ODU	Cooling (°F / °C)	-13~122 / -25~50
	Heating (°F / °C)	-13~75 / -25~24
IDU	Cooling (°F / °C)	60~90 / 16~32
	Heating (°F / °C)	32~86 / 0~30

Piping

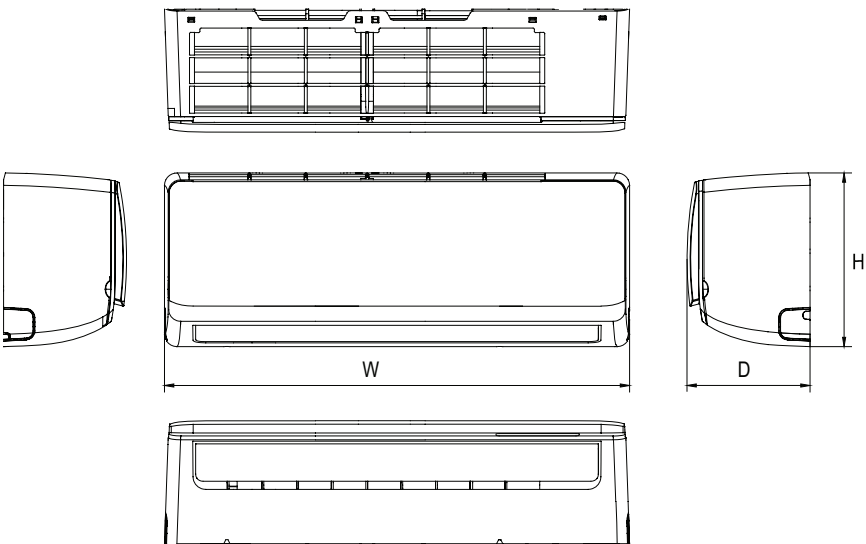
Refrigerant precharge (oz/kg)		33.51 / 0.95
Length for precharge (ft/m)		24.6 / 7.5
Liquid side (in/mm)		1/4" / Ø6.35
Gas side (in/mm)		3/8" / Ø9.52
Additional Charge of Refrigerant (oz/ft)/(g/m)		0.16 / 15
Max. refrigerant pipe length (ft/m)		82 / 25
Max. difference in height (ft/m)		49.2 / 15
System Data		
Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (pts/hr)		2.32
IDU	Fan motor model	ZKFP-20-8-113
	Fan motor qty (ea)	1
	Fan motor input (W)	50.0
	Fan speed (RPM)	1200 / 900 / 700
	Air flow, Turbo / H / M / L / Si (CFM)	400.2 / 323.7 / 282.5 / 235.4 / 211.9
	Approx. Air Throw Range ft (m)	23.0 / 7
	Noise level, Turbo / H / M / L / Si (dB(A))	44.0 / 36.5 / 32.5 / 21.0 / 17.5
	Net weight (lbs / kg)	23.15 / 10.5
	Gross weight (lbs / kg)	29.54 / 13.4
ODU	Fan motor model	ZKFN-34-10-1-9
	Fan motor qty (ea)	1
	Fan motor input (W)	50
	Fan motor speed, H / M / L (RPM)	850 / 700 / 600
	Air flow, Max (CFM)	1235.3
	Noise level, Max (dB(A))	52.5
	Net weight (lbs / kg)	64.59 / 29.3
	Gross weight (lbs / kg)	70.11 / 31.8
Accessories		
BMS-WT2-XXD (8733962707)		Wired Wall Thermostat
BMS-DRY-XXD (8733969263)		24V Interface
BMS-PK2-7X1 (8733951011)		25ft Lineset
Standard Parts		
8-733-969-088		Remote Control

Climate 5000 Series - Gen 4

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

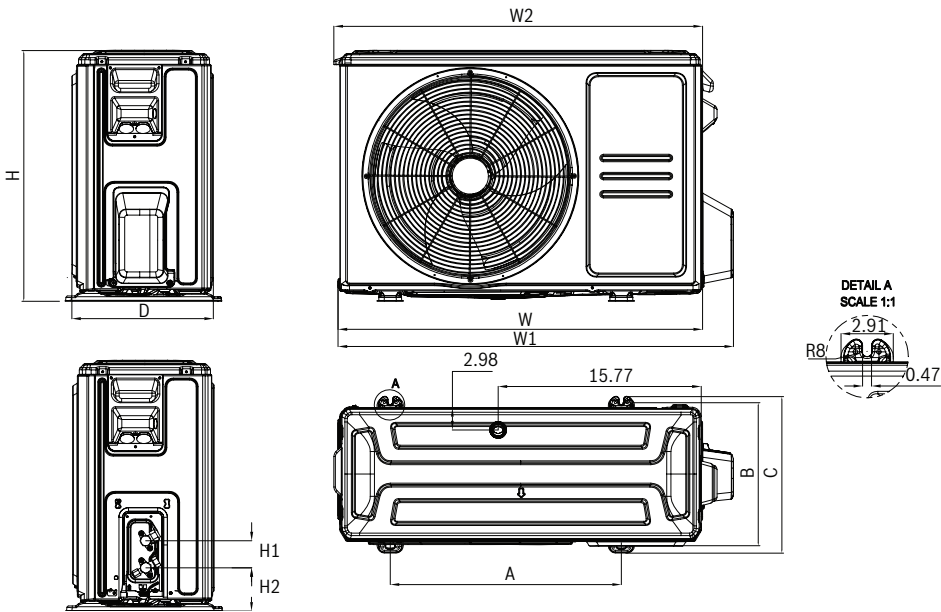


Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAS012-0AHWXD	31.42	9.21	11.85

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-AAS012-0CSXRD	30.12	11.93	21.85	32.9	30.87	2.36	3.67	17.8	11.26	12.36