

# Climate 5000 Series - Gen 4

## 12K BTU Single Zone Regular System

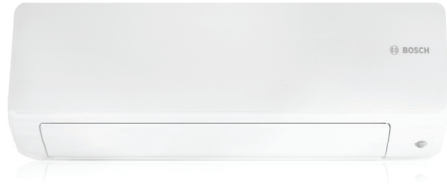
### Wall Mounted IDU

Engineering  
Submittal  
Sheet



# BOSCH

#### Overview and Project Information



Project name	
Location	
Architect	
Engineer	
General contractor	
Reference #	

#### 12K Btu Single Zone Regular System - Wall Mounted IDU

Indoor part number		8-733-962-673
Indoor model number		BMS500-AAU012-1AHWXD
Outdoor part number		8-733-962-685
Outdoor model number		BMS500-AAS012-1CSXRD
Efficiency Data		AHRI 210/240 2023
SEER2		25.5
EER2		13
HSPF2 Region IV		10.6
HSPF2 Region V		8.0
COP(47F)		3.90
COP (5F)		2.30
Performance Data		AHRI 210/240 2023
Cooling	Capacity Range	2900~14500
	Rated Capacity	12000
	Current	4.1
	Input Power	916
Heating	Capacity Range	4500~15400
	Rated Capacity (47F)	12000
	Rated Capacity (5F)	8400
	Current	4.0
	Input Power	902
Electrical Data		
Power supply (V / Ø / Hz)		208-230 / 1 / 60
Min. circuit ampacity indoor/outdoor (A)		3.0 / 12.0
Max. fuse indoor/outdoor (A)		15.0 / 15.0
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

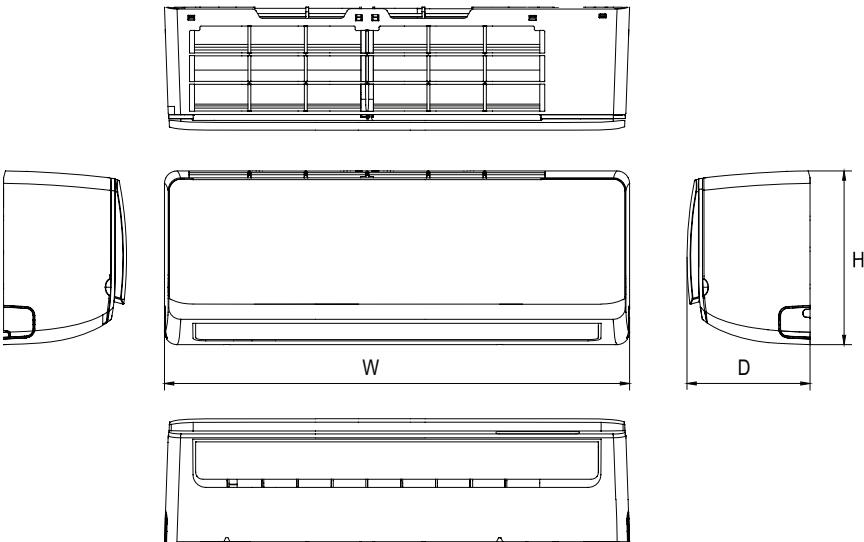
Refrigerant precharge (oz/kg)		32.45 / 0.92
Length for precharge (ft/m)		24.6 / 7.5
Liquid side (in/mm)		1/4" / Ø6.35
Gas side (in/mm)		3/8" / Ø9.52
Additional Charge of Refrigerant (oz/ft)/(g/m)		0.16 / 15
Max. refrigerant pipe length (ft/m)		82 / 25
Max. difference in height (ft/m)		49.2 / 15
System Data		
Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (pts/hr)		2.32
IDU	Fan motor model	ZKFP-20-8-6-7
	Fan motor qty (ea)	1
	Fan motor input (W)	50.0
	Fan speed (RPM)	1100 / 850 / 700
	Air flow, Turbo / H / M / L / Si (CFM)	441.4 / 323.7 / 229.6 / 176.6 / 147.2
	Approx. Air Throw Range ft (m)	23.0 / 7
	Noise level, Turbo / H / M / L / Si (dB(A))	46 / 38 / 33.0 / 18.0 / 18
	Net weight (lbs / kg)	22.93 / 10.4
	Gross weight (lbs / kg)	29.32 / 13.3
ODU	Fan motor model	ZKFN-34-10-1L
	Fan motor qty (ea)	1
	Fan motor input (W)	50.0
	Fan motor speed, H / M / L (RPM)	800 / 700 / 600
	Air flow, Max (CFM)	1235.3
	Noise level, Max (dB(A))	56.0
	Net weight (lbs / kg)	62.17 / 28.2
	Gross weight (lbs / kg)	67.68 / 30.7
	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

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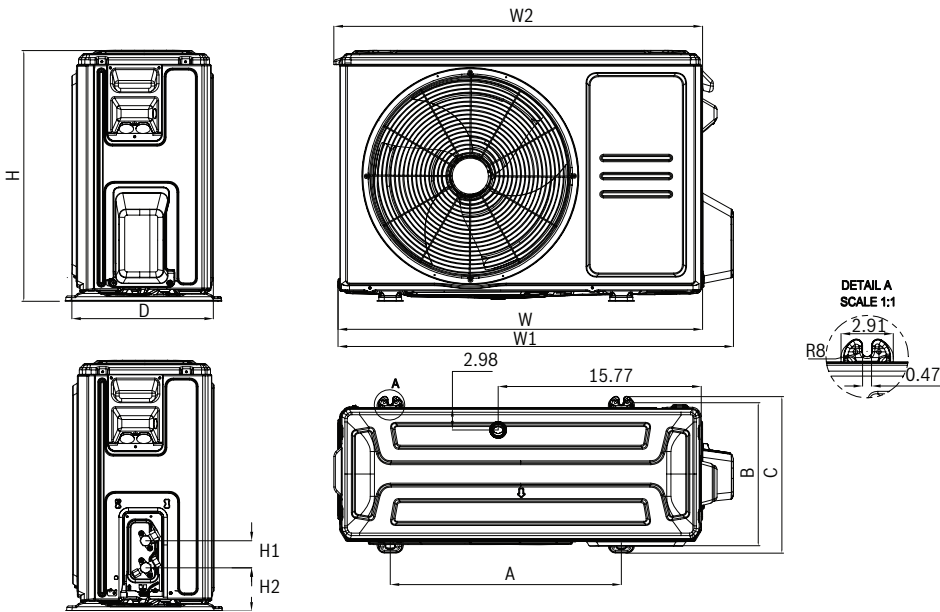


Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU012-1AHWXD	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-AAS012-1CSXRD	30.12	11.93	21.85	32.9	30.87	2.36	3.67	17.8	11.26	12.36