

Climate 5000 Series - Gen 4

18K BTU Single Zone Regular System

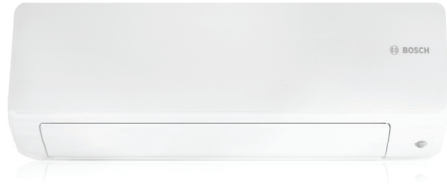
Wall Mounted IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name	
Location	
Architect	
Engineer	
General contractor	
Reference #	

18K Btu Single Zone Regular System - Wall Mounted IDU

Indoor part number		8-733-962-674
Indoor model number		BMS500-AAU018-1AHWXD
Outdoor part number		8-733962-686
Outdoor model number		BMS500-AAS018-1CSXRD
Efficiency Data		AHRI 210/240 2023
SEER2		23.5
EER2		12.7
HSPF2 Region IV		10.8
HSPF2 Region V		8.0
COP(47F)		3.50
COP (5F)		2.10
Performance Data		AHRI 210/240 2023
Cooling	Capacity Range	3500~18900
	Rated Capacity	18000
	Current	6.3
	Input Power	1406
Heating	Capacity Range	7700~21000
	Rated Capacity (47F)	18000
	Rated Capacity (5F)	12800
	Current	6.7
	Input Power	1507
Electrical Data		
Power supply (V / Ø / Hz)		208-230 / 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 / 440
Input (W)		1090
Rated current (RLA/A)		7.2
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

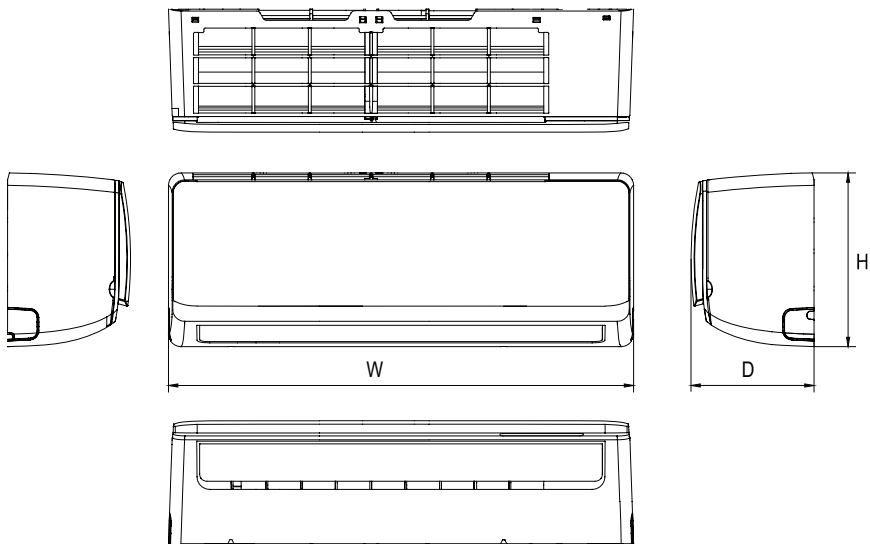
Piping

Refrigerant precharge (oz/kg)		47.97 / 1.36
Length for precharge (ft/m)		24.6 / 7.5
Liquid side (in/mm)		1/4" / Ø6.35
Gas side (in/mm)		1/2" / Ø12.7
Additional charge per ft (oz/g)		0.16 / 4.54
Max. refrigerant pipe length (ft/m)		98.4 / 30
Max. difference in height (ft/m)		65.6 / 20
System Data		
Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (pts/hr)		4.23
IDU	Fan motor model	ZKFP-30-8-3-10
	Fan motor qty (ea)	1
	Fan motor input (W)	36.0
	Fan speed (RPM)	1190 / 994 / 896
	Air flow, Turbo / H / M / L / Si (CFM)	635.7 / 500.3 / 359.0 / 294.3 / /
	Approx. Air Throw Range ft (m)	26.2 / 8
	Noise level, Turbo / H / M / L / Si (dB(A))	49 / 45 / 39 / 28 / 20
	Net weight (lbs / kg)	27.34 / 12.4
ODU	Gross weight (lbs / kg)	36.60 / 16.6
	Fan motor model	ZKFN-80-10-1L
	Fan motor qty (ea)	1
	Fan motor input (W)	161
	Fan motor speed, H / M / L (RPM)	780 / 700 / 550
	Air flow, Max (CFM)	1764.7
	Noise level, Max (dB(A))	58.0
	Net weight (lbs / kg)	92.59 / 42.0
Accessories	Gross weight (lbs / kg)	100.31 / 45.5
	BMS-WT2-XXD (8733962707)	Wired Wall Thermostat
	BMS-DRY-XXD (8733969263)	24V Interface
Standard Parts		
8-733-969-088		Remote Control

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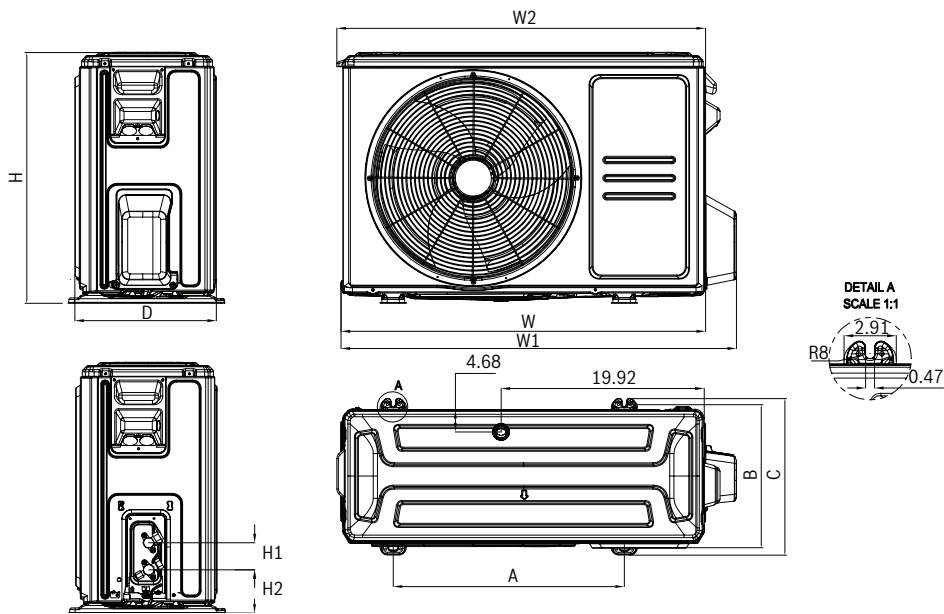


Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU018-1AHWXD	38.0	9.8	12.56

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-AAS018-1CSXRD	35.04	13.46	26.50	37.6	35.24	2.36	4.25	26.1	13.7	14.96