

# Climate 5000 Series - Gen 4

## 18K BTU Single Zone Max Performance System

### Wall Mounted IDU

Engineering  
Submittal  
Sheet



# BOSCH

#### Overview and Project Information



Project name	
Location	
Architect	
Engineer	
General contractor	
Reference #	

#### 18K Btu Single Zone Max Performance System - Wall Mounted IDU

Indoor part number		8-733-962-674
Indoor model number		BMS500-AAU018-1AHWXD
Outdoor part number		8-733-962-690
Outdoor model number		BMS500-AAS018-1CSXHD
<b>Efficiency Data</b>		<b>AHRI 210/240 2023</b>
SEER2		21.4
EER2		12.5
HSPF2 Region IV		11.0
HSPF2 Region V		8.5
COP(47F)		3.26
COP (5F)		1.92
<b>Performance Data</b>		<b>AHRI 210/240 2023</b>
Cooling	Capacity Range	8800~19400
	Rated Capacity	18000
	Current	6.4
	Input Power	1440
Heating	Capacity Range	11200~19500
	Rated Capacity (47F)	18000
	Rated Capacity (5F)	18000
	Current	7.2
	Input Power	1618
<b>Electrical Data</b>		
Power supply (V / Ø / Hz)		208-230 / 1 / 60
Min. circuit ampacity indoor/outdoor (A)		3.0 / 19.0
Max. fuse indoor/outdoor (A)		15.0 / 20.0
<b>Compressor Data</b>		
Type:		Rotary
Refrigerant oil /oil charge (ml)		VG74 / 620
Input (W)		805 / 2045
Rated current (RLA/A)		4.15 / 9.30
<b>Operation Range</b>		
ODU	Cooling (°F / °C)	-22~122 / -30~50
	Heating (°F / °C)	-22~75 / -30~24
IDU	Cooling (°F / °C)	60~90 / 16~32
	Heating (°F / °C)	32~86 / 0~30

#### Piping

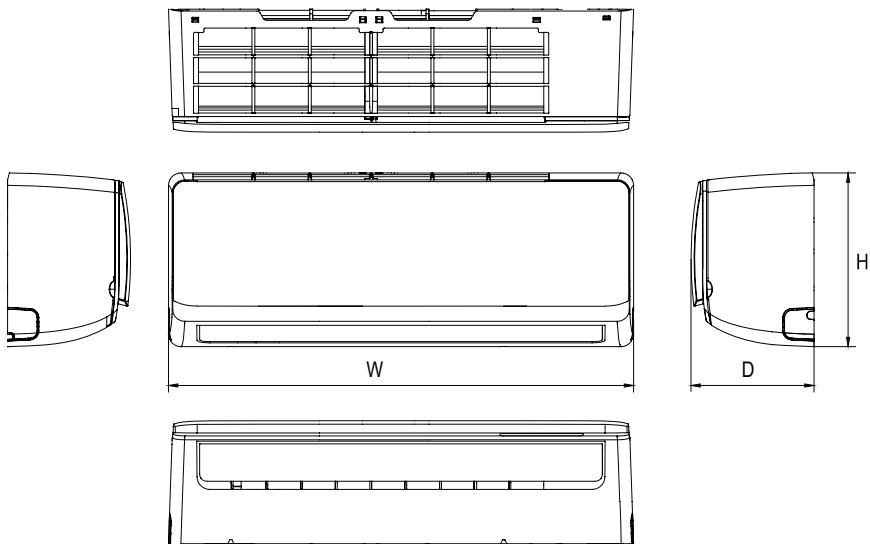
Refrigerant precharge (oz/g)		55.38 / 1570.00
Length for precharge (ft/m)		24.6 / 7.5
Liquid side (in/mm)		1/4" / Ø6.35
Gas side (in/mm)		1/2" / Ø12.7
Additional charge per ft (oz/g)		0.16 / 4.54
Max. refrigerant pipe length (ft/m)		98.40 / 30
Max. difference in height (ft/m)		65.6 / 20
<b>System Data</b>		
Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (pts/hr)		4.64
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))	49.5 / 45.0 / 38.0 / 31.5 / 19.5
	Net weight (lbs / kg)	27.34 / 12.4
ODU	Gross weight (lbs / kg)	36.60 / 16.6
	Fan motor model	ZKFN-80-8-3
	Fan motor qty (ea)	1
	Fan motor input (W)	115
	Fan motor speed, H / M / L (RPM)	780 / 700 / 550
	Air flow, Max (CFM)	1764.7
	Noise level, Max (dB(A))	59
	Net weight (lbs / kg)	99.87 / 45.3
Accessories	Gross weight (lbs / kg)	107.8 / 48.9
BMS-WT2-XXD (8733962707)		Wired Wall Thermostat
BMS-DRY-XXD (8733969263)		24V Interface
BMS-PK2-7X1 (8733951011)		25ft Lineset
<b>Standard Parts</b>		
8-733-969-088		Remote Control

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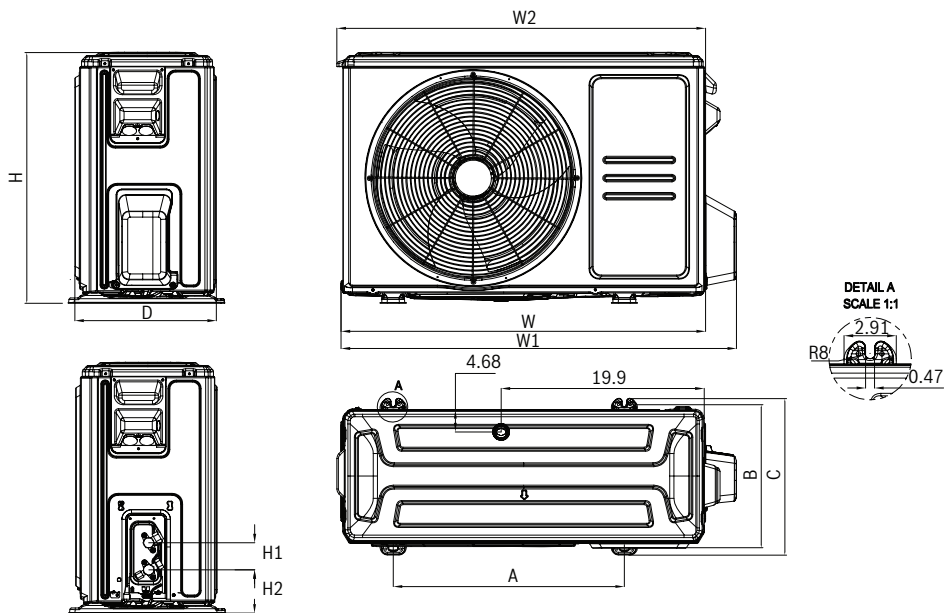


Indoor Unit Dimensions and Connections



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-AAS018-1CSXHD	35.04	13.46	26.5	37.6	35.24	2.36	4.25	26.1	13.7	14.96