

Climate 5000 Series

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		8733956177	
Indoor model number		BMS500-AAU018-1AHWXC	
Outdoor part number		8733956195	
Outdoor model number		BMS500-AAS018-1CSXHC	
Efficiency Data		AHRI 210/240 2017	AHRI 210/240 2023
SEER		21.50	21.50
EER		12.50	12.50
HSPF Region IV		13.0	11.3
HSPF Region V		11.0	8.3
COP(47F)		3.10	3.10
COP (5F)		1.78	1.80
Performance Data		AHRI 210/240 2017	AHRI 210/240 2023
Cooling	Capacity Range	8870~19400	8870~19400
	Rated Capacity	18000	18000
	Current	6.30	6.30
	Input Power	1440	1440
Heating	Capacity Range	15100~19500	15100~19500
	Rated Capacity (47F)	18000	18000
	Rated Capacity (5F)	18000	18000
	Current	7.30	7.30
	Input Power	1700	1700
Electrical Data			
Power supply (V / Ø / Hz)		208-230 / 1 / 60	
Min. circuit ampacity indoor/outdoor (A)		3.0 / 16.0	
Max. fuse indoor/outdoor (A)		15.0 / 25.0	
Compressor Data			
Type:		Rotary	
Refrigerant oil /oil charge (ml)		VG74 / 620	
Input (W)		1895	
Rated current (RLA/A)		15.3	
Operation Range			
ODU	Cooling (°F / °C)	-22~122 / -30~50	
	Heating (°F / °C)	-22~86 / -30~30	
IDU	Cooling (°F / °C)	60~90 / 16~32	
	Heating (°F / °C)	32~86 / 0~30	

Piping

Refrigerant precharge (oz/g)	41.62 / 1180
Length for precharge (ft/m)	25 / 7.6
Liquid side (in/mm)	1/4" / Ø6.35
Gas side (in/mm)	3/8" / Ø9.52
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)	3.58

IDU	Fan motor model	ZKFP-30-8-3-10
	Fan motor qty (ea)	1
	Fan motor input (W)	36
	Fan speed (RPM)	1240 / 1024 / 916
	Air flow, H / M / L (CFM)	523.53 / 376.47 / 305.88
	Approx. Air Throw Range ft (m)	4.9(1.5)~31(9.5)
	Noise level, H / M / L (dB(A))	46 / 42 / 24
	Net weight (lbs / kg)	28.66 / 13.0
	Gross weight (lbs / kg)	37.48 / 17.0
ODU	Fan motor model	ZKFN-80-8-3
	Fan motor qty (ea)	1
	Fan motor input (W)	88.0
	Fan motor speed, H / L (RPM)	810 / 720
	Air flow, Max (CFM)	1765
	Noise level, Max (dB(A))	59.0
	Net weight (lbs / kg)	100.97 / 45.8
	Gross weight (lbs / kg)	108.03 / 49

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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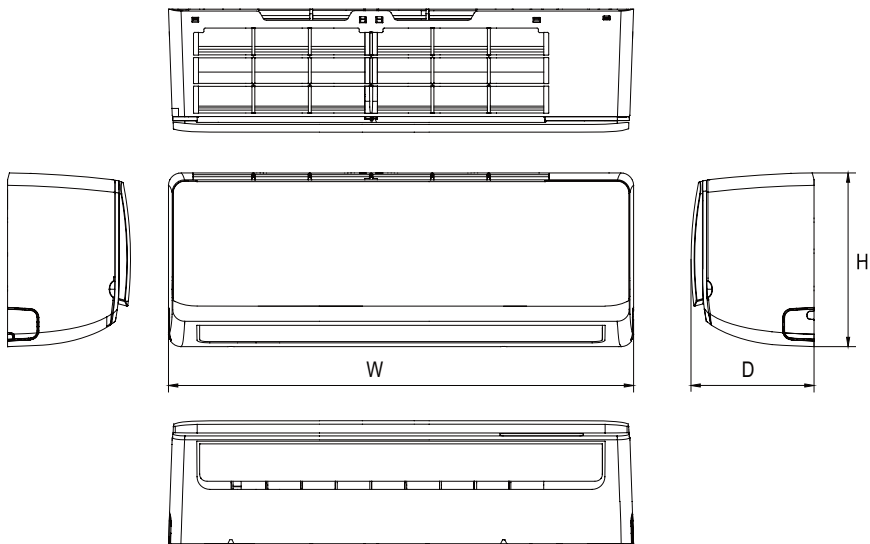
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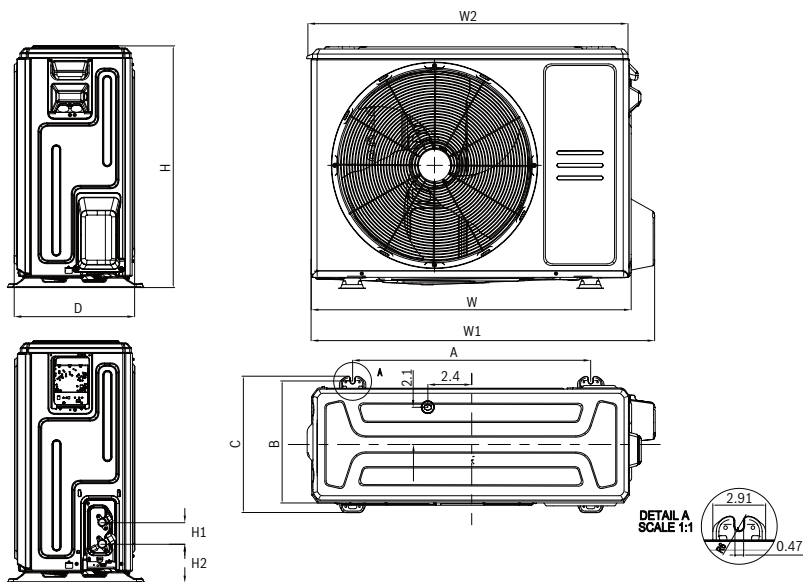
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Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU018-1AHWXC	40.0	9.5	12.6

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-AAS018-1CSXHC	35.0	13.5	26.5	37.6	35.2	2.4	4.3	26.1	13.9	15.0