Climate 5000 Series - Gen 4
18K BTU Single Zone Regular System
4-Way Cassette IDU

Engineering Submittal Sheet

BOSCH

Overview and Project Information



Project name	
Location	
Architect	
Engineer	
General contractor	
Reference #	

18K Btu Single Zone Regular System - 4-Way Cassette IDU		
Indoor part number		8-733-962-718
Indoor model number		BMS500-AAU018-1AHCXD
Outdoor part number		8-733962-686
Outdoor model number		BMS500-AAS018-1CSXRD
Efficiency Data		**AHRI 210/240 2023**
SEER2		20.7
EER2		12.5
HSPF2 Region IV		11.4
HSPF2 Region V		8.5
COP(47F)		3.36
COP (5F)		2.20
Performance Data		**AHRI 210/240 2023**
Cooling	Capacity Range	5300~17800
	Rated Capacity	16800
	Current	6.1
	Input Power	1344
Heating	Capacity Range	7100~21500
	Rated Capacity (47F)	18000
	Rated Capacity (5F)	12800
	Current	7.2
	Input Power	1570
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
Piping		
Refrigerant precharge (oz/kg)		47.97 / 1.36
Length for precharge (ft/m)		24.6 / 7.5
Liquid side (in/mm)		1/4" / Φ6.35
Gas side (in/mm)		1/2" / Φ12.7
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)		65.60 / 20

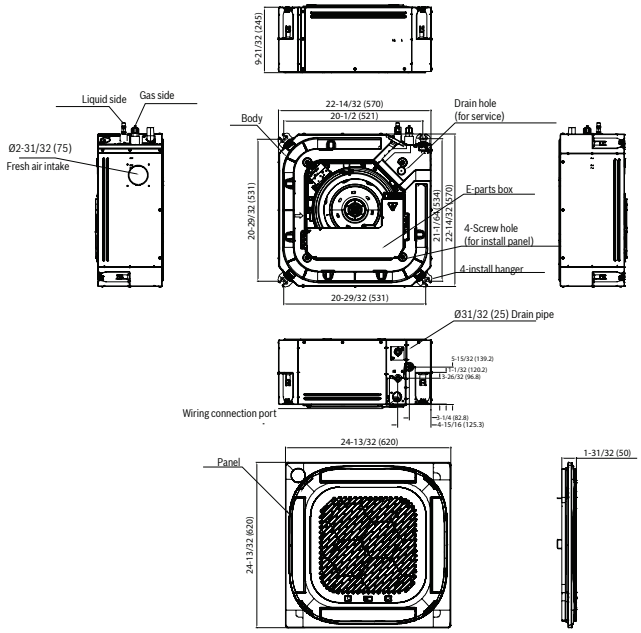
Operation Range		
ODU	Cooling (°F / °C)	-13~122 / -25~50
	Heating (°F / °C)	-13~75 / -25~24
IDU	Cooling (°F / °C)	60~90 / 16~32
	Heating (°F / °C)	32~86 / 0~30
System Data		
Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (pts/hr)		4.33
IDU	Fan motor model	ZKFN-45-8-2
	Fan motor qty (ea)	1
	Fan motor input (W)	50.0
	Fan speed (RPM)	800 / 750 / 700
	Air flow, Turbo / H / M / L / Si (CFM)	447.3 / 388.5 / 317.8 / 194.2 / 147.2
	Approx. Air Throw Range ft (m)	9.8 / 3
	Noise level, Turbo / H / M / L / Si (dB(A))	48 / 44.0 / 41.0 / 28.5 / 24.5
	Net weight (lbs / kg)	35.27 / 16.0
	Gross weight (lbs / kg)	41.89 / 19.0
	Panel net weight (lbs / kg)	5.95 / 2.7
	Gross panel weight (lbs / kg)	9.48 / 4.3
	Drain pipe diameter (mm)	ODΦ25mm
ODU	Fan motor model	ZKFN-80-10-1L
	Fan motor qty (ea)	1
	Fan motor input (W)	161.0
	Fan motor speed (RPM)	780 / 700 / 550
	Air flow, Max (CFM)	1765.8
	Noise level, Max (dB(A))	57.5
	Net weight (lbs / kg)	92.59 / 42.0
	Gross weight (lbs / kg)	100.31 / 45.5
Accessories		
BMS-CCG-XXD (8733962708)		Decorative Grille - 9K ~ 18K
BMS-WT2-XXD (8733962707)		Wired Wall Thermostat
BMS-DRY-XXD (8733969263)		24V Interface
BMS-PK2-7X1 (8733951011)		25ft Lineset
Standard Parts		
8-733-969-065		Remote Control

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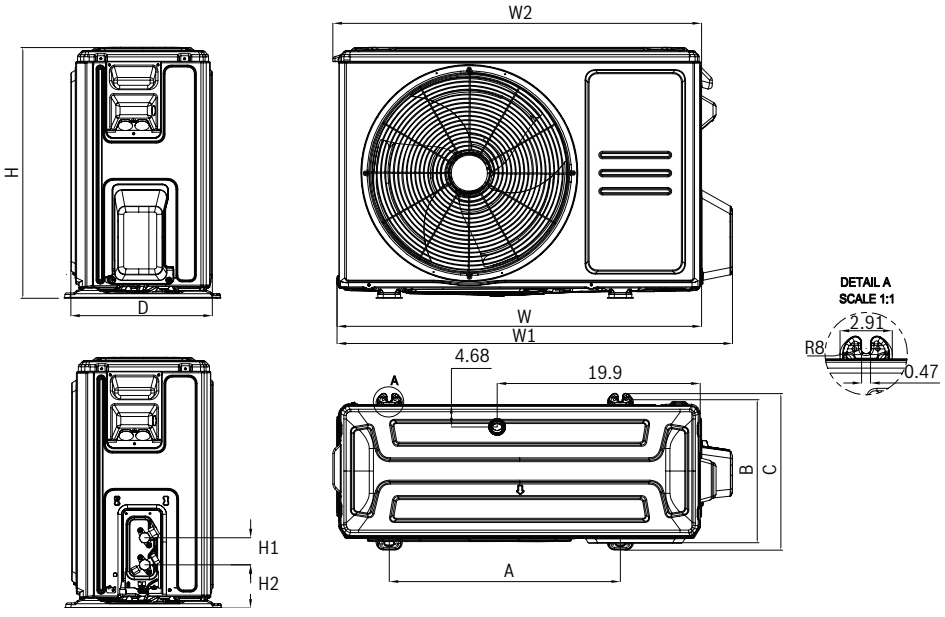
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Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU018-1AHCXD	22.44	22.44	9.65

Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)	W1 (in)	W2 (in)	A (in)	B (in)	C (in)	H1 (in)	H2 (in)
BMS500-AAS018-1CSXRD	35	13.46	26.5	37.6	35.24	26.1	13.7	14.96	2.36	4.25

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GOBI II

Item Number 3004145

The GOBI II condensate pump for direct mounting under the air conditioner is designed for systems from 6 000 BTU/h (1.75kW) up to 120 000 BTU/h (35kW). The digital water sensor, the universal voltage range and the individually configurable flow rate are features that contribute to making the Gobi II the most powerful and quietest condensate pump for air conditioning systems on the market today. The variable range of applications allows the trade as well as the installer to cover almost all needs with just one pump.

- Universal use due to wide range of applications
- Warranty period only starts with commissioning (readable via USB)
- 11 gallon pumping capacity per hour
- 65 ft delivery head
- <19 dB noise level
- No float problems thanks to digital sensor
- Demand-oriented control of the pumping capacity
- Spare parts available

Technical Data

Color	signal white (RAL 9003)
Standards	EN 60335-1, EN 60335-2-41, UL778 CSA C22.2 #68
RoHS Conformity	1
RoHS Conformity	Yes
Type	Diaphragm type
Operating Temperature Range	41 - 104 °F
Storage Temperature Range	-4 - 122 °F
Water Temperature Range	41 - 104 °F

REFCO Manufacturing (US) Inc.
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Springfield MA 01104
Phone 413 739 4761
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sales@refcoswiss.com
Certificate
ISO 9001 / ISO 14001

Voltage	100 - 240 VAC
Frequency	50 / 60 Hz
Protection Class	I
Ingression Protection	IP44
Energy Consumption	8 W
Cable Length	5 ft
Max. Flow Capacity	11 GPH
Max. Suction Head	10 ft
Max. Delivery Head	65.6 ft
Noise Level	19 dB(A)
Alarm Relay	Interchangeable NO or NC, rated 250VAC, 6.3A or 28VDC, 6.3A
Tube Diameter	1/4 "
Packaging	Blister
Scope of Supply	Power cable, Alarm cable, Star tube and anti-siphon device, Screws (for mounting), Screw anchors, Factory-installed alarm fuse, Cable ties, Instruction manual

Accessories

4678597	IN-LINE FILTER	Filter for condensate water
4679160	PVC-TUBE	Plastic tube 6 mm, 30 meters, 1/4"
4678741	AQUASWITCH	Electronic water switch, 95-254V
4678546	AQUASWITCH-24	Electronic water switch 24 V AC/DC

Spare Parts

3004064	FIL-4064/4	Spare filter for GOBI II, 4 pieces

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3004087	KIT-4087	Star tube with Siphon device
3004166	CP-ALARM-CABLE	Alarm cable
3004180	FUS-4180/10	Spare fuses for COMBI and GOBI II 6.3A, pack of 10 pieces
3004050	FUS-4050/10	Spare fuse, 10 pieces
3004065	HSG-4065/4	Siphon Device, 4 pieces

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