

Climate 5000 Series - Gen 4

30K BTU Single Zone Light Commercial System

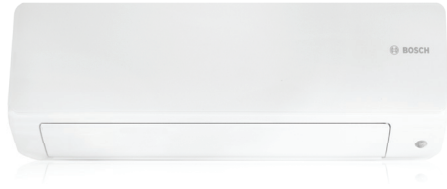
Wall Mounted IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

30K Btu Single Zone Light Commercial System - Wall Mounted IDU

Indoor part number 8-733-962-677

Indoor model number BMS500-AAU030-1AHWXD

Outdoor part number 8-733-962-678

Outdoor model number BMS500-AAS030-1CSXRD

Efficiency Data AHRI 210/240 2023

SEER2 20.5

EER2 12.0

HSPF2 Region IV 9.5

HSPF2 Region V 7.2

COP(47F) 3.08

COP (5F) 2.03

Performance Data AHRI 210/240 2023

Capacity Range 6500~32800

Rated Capacity 30000

Current 11.2

Input Power 2500

Capacity Range 12600~31400

Rated Capacity (47F) 30000

Rated Capacity (5F) 20000

Current 13.1

Input Power 2857

Electrical Data

Power supply (V / Ø / Hz) 208-230 / 1 / 60

Min. circuit ampacity indoor/outdoor (A) 3.0 / 28.0

Max. fuse indoor/outdoor (A) 15.0 / 30.0

Compressor Data

Type: Rotary

Refrigerant oil /oil charge (ml) VG74 / 670

Input (W) 2200

Rated current (RLA/A) 10.0

Operation Range

Cooling (°F / °C) -13~122 / -25~50

Heating (°F / °C) -13~75 / -25~24

Cooling (°F / °C) 60~90 / 16~32

Heating (°F / °C) 32~86 / 0~30

Piping

Refrigerant precharge (oz/kg) 84.66 / 2.4

Length for precharge (ft/m) 24.6 / 7.5

Liquid side (in/mm) 3/8" / Ø9.52

Gas side (in/mm) 5/8" / Ø15.9

Additional charge per ft (oz/g) 0.32 / 9.07

Max. refrigerant pipe length (ft/m) 164.00 / 50

Max. difference in height (ft/m) 82.00 / 25

System Data

Refrigerant type R454B

Design pressure (PSIG) 550 / 340

Dehumidification (pts/hr) 8.45

Fan motor model ZKFP-58-8-1-10

Fan motor qty (ea) 1

Fan motor input (W) 58.0

Fan speed (RPM) 1050 / 880 / 630

Air flow, Turbo / H / M / L / Si (CFM) 882.9 / 635.7 / 506.2 / 382.6 / /

Approx. Air Throw Range ft (m) 29.5 / 9

Noise level, Turbo / H / M / L / Si (dB(A)) 53.0 / 45.5 / 40 / 30.5 / 19.5

Net weight (lbs / kg) 43.21 / 19.6

Gross weight (lbs / kg) 54.67 / 24.8

Fan motor model ZKFN-120-8-2

Fan motor qty (ea) 1

Fan motor input (W) 170

Fan motor speed, H / M / L (RPM) 900 / 700 / 500

Air flow, Max (CFM) 2235.3

Noise level, Max (dB(A)) 61.0

Net weight (lbs / kg) 142.86 / 64.8

Gross weight (lbs / kg) 154.54 / 70.1

Accessories

BMS-WT2-XXD (8733962707) Wired Wall Thermostat

BMS-DRY-XXD (8733969263) 24V Interface

BMS-PK3-7X1 (8733951015) 25ft Lineset

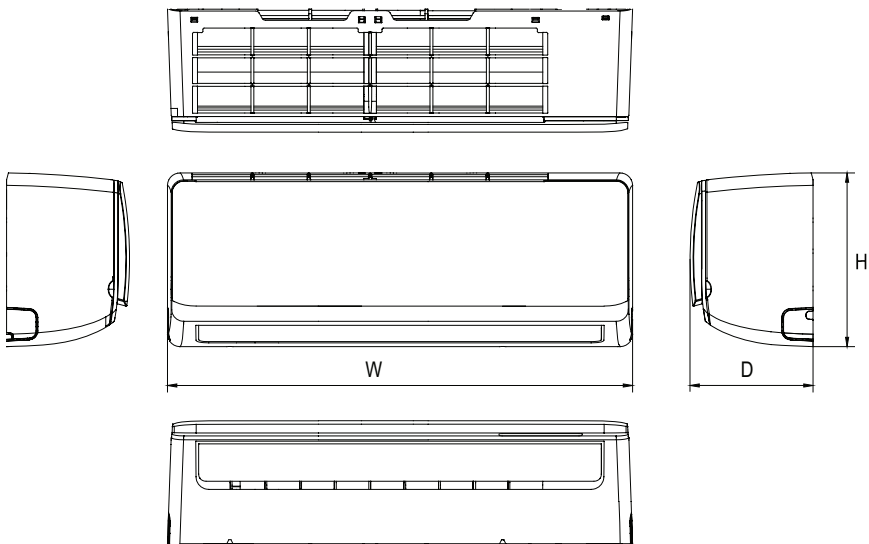
Standard Parts

8-733-969-088 Remote Control

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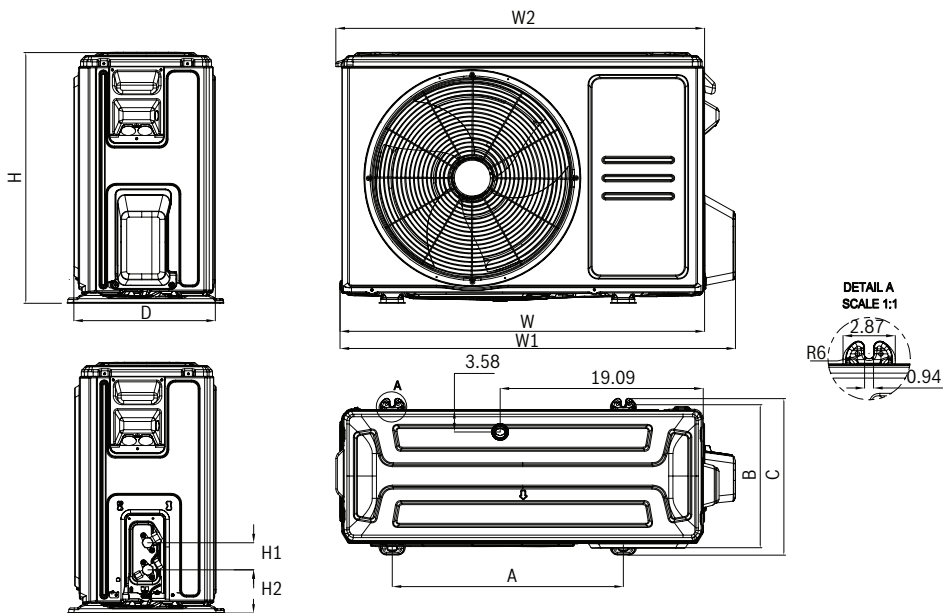


Indoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAU030-1AHWXD	44.88	11.22	14.61

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-AAS030-1CSXRD	37.24	16.14	31.89	40.55	37.24	2.36	4.25	26.5	15.87	17.9