

Climate 5000 Series

12K BTU Single Zone Regular System

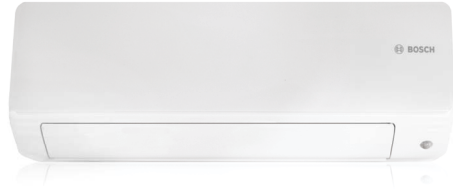
Wall Mounted IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



| | |
|--------------------|--|
| Project Name | |
| Location | |
| Architect | |
| Engineer | |
| General Contractor | |
| Reference # | |

12K Btu Single Zone Regular System - Wall Mounted IDU

| | | | |
|--|----------------------|----------------------|-------------------|
| Indoor part number | | 8733956176 | |
| Indoor model number | | BMS500-AAU012-1AHWXC | |
| Outdoor part number | | 8733956190 | |
| Outdoor model number | | BMS500-AAS012-1CSXRC | |
| Efficiency Data | | AHRI 210/240 2017 | AHRI 210/240 2023 |
| SEER | | 23.20 | 24.60 |
| EER | | 13.70 | 13.70 |
| HSPF Region IV | | 13.2 | 10.7 |
| HSPF Region V | | 11.0 | 8.1 |
| COP(47F) | | 3.72 | 3.72 |
| COP (5F) | | 1.80 | 2.39 |
| Performance Data | | AHRI 210/240 2017 | AHRI 210/240 2023 |
| Cooling | Capacity Range | 3600~13300 | 3600~13300 |
| | Rated Capacity | 12000 | 12000 |
| | Current | 3.82 | 3.82 |
| | Input Power | 880 | 880 |
| Heating | Capacity Range | 4500~13500 | 4500~13500 |
| | Rated Capacity (47F) | 12000 | 12000 |
| | Rated Capacity (5F) | 9500 | 8000 |
| | Current | 4.10 | 4.10 |
| | Input Power | 945 | 945 |
| Electrical Data | | | |
| Power supply (V / Ø / Hz) | | 208-230 / 1 / 60 | |
| Min. circuit ampacity indoor/outdoor (A) | | 3.0 / 13.0 | |
| Max. fuse indoor/outdoor (A) | | 15.0 / 15.0 | |
| Compressor Data | | | |
| Type: | | Rotary | |
| Refrigerant oil /oil charge (ml) | | VG74 / 310 | |
| Input (W) | | 790 | |
| Rated current (RLA/A) | | 8.00 | |
| Operation Range | | | |
| ODU | Cooling (°F / °C) | -13~122 / -25~50 | |
| | Heating (°F / °C) | -13~86 / -25~30 | |
| IDU | Cooling (°F / °C) | 60~90 / 16~32 | |
| | Heating (°F / °C) | 32~86 / 0~30 | |

Piping

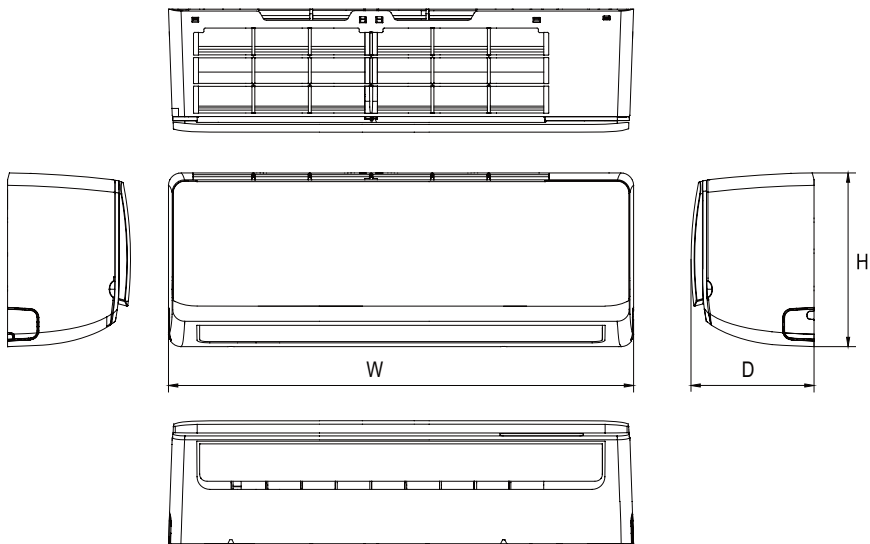
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|-------------------------------------|--------------------------------|--------------------------|-----------------------|
| Refrigerant precharge (oz/g) | | 38.1 / 1080 | |
| Length for precharge (ft/m) | | 25 / 7.6 | |
| Liquid side (in/mm) | | 1/4" / Ø6.35 | |
| Gas side (in/mm) | | 1/2" / Ø12.7 | |
| 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) | | 2.54 | |
| IDU | Fan motor model | ZKFP-20-8-6-7 | |
| | Fan motor qty (ea) | 1 | |
| | Fan motor input (W) | 50 | |
| | Fan speed (RPM) | 1000 / 852 / 778 | |
| | Air flow, H / M / L (CFM) | 335.29 / 229.41 / 176.47 | |
| | Approx. Air Throw Range ft (m) | 4.9(1.5)~31(9.5) | |
| | Noise level, H / M / L (dB(A)) | 36 / 33.5 / 22.5 | |
| | Net weight (lbs / kg) | 25.57 / 11.6 | |
| ODU | Gross weight (lbs / kg) | 30.86 / 14.0 | |
| | Fan motor model | ZKFN-34-10-1-3 | |
| | Fan motor qty (ea) | 1 | |
| | Fan motor input (W) | 100.3 | |
| | Fan motor speed, H / L (RPM) | 800 / 600 | |
| | Air flow, Max (CFM) | 1294 | |
| | Noise level, Max (dB(A)) | 53.5 | |
| | Net weight (lbs / kg) | 63.71 / 28.9 | |
| Accessories | Gross weight (lbs / kg) | 69.0 / 31.3 | |
| | 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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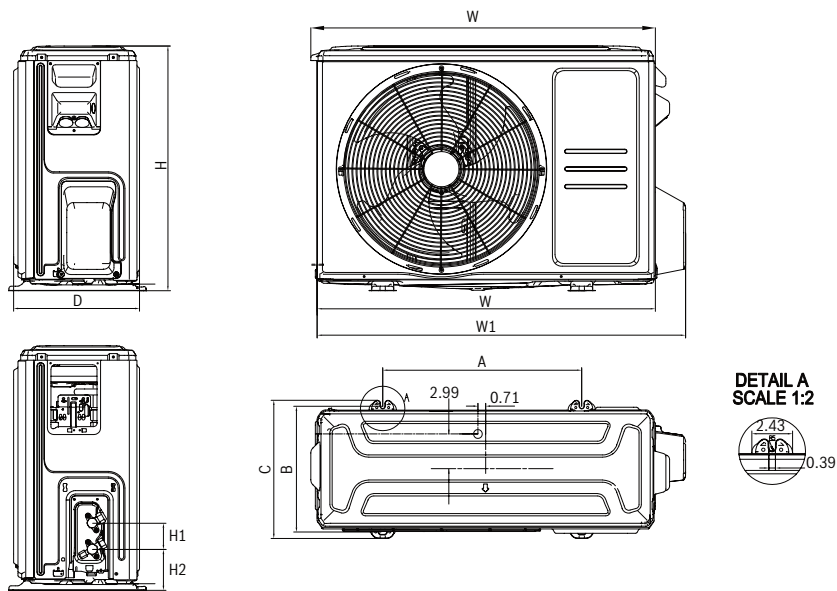
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Indoor Unit Dimensions and Connections



| Model | W (in) | D (in) | H (in) |
|----------------------|--------|--------|--------|
| BMS500-AAU012-1AHWXC | 33.4 | 9.1 | 11.7 |

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-AAS012-1CSXRC | 30.12 | 11.26 | 21.85 | 33.0 | 30.87 | 2.36 | 3.67 | 17.8 | 11.26 | 12.36 |