

Climate 5000 Series - Gen 4

36K BTU Single Zone Light Commercial System

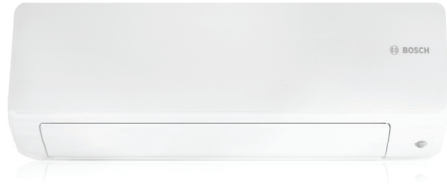
Wall Mounted IDU

Engineering
Submittal
Sheet



BOSCH

Overview and Project Information



| | |
|--------------------|--|
| Project name | |
| Location | |
| Architect | |
| Engineer | |
| General contractor | |
| Reference # | |

36K Btu Single Zone Light Commercial System - Wall Mounted IDU

| | |
|----------------------|----------------------|
| Indoor part number | 8-733-962-679 |
| Indoor model number | BMS500-AAU036-1AHWXD |
| Outdoor part number | 8-733-962-680 |
| Outdoor model number | BMS500-AAS036-1CSXRD |

| Efficiency Data | | AHRI 210/240 2023 |
|-----------------|--|-------------------|
| SEER2 | | 19.0 |
| EER2 | | 8.6 |
| HSPF2 Region IV | | 8.5 |
| HSPF2 Region V | | 6.6 |
| COP(47F) | | 2.85 |
| COP (5F) | | 1.90 |

| Performance Data | | AHRI 210/240 2023 |
|------------------|----------------------|-------------------|
| Cooling | Capacity Range | 6600~36800 |
| | Rated Capacity | 36000 |
| | Current | 18.0 |
| | Input Power | 4138 |
| | | |
| Heating | Capacity Range | 9600~38000 |
| | Rated Capacity (47F) | 36000 |
| | Rated Capacity (5F) | 22000 |
| | Current | 16.2 |
| | Input Power | 3700 |

| Electrical Data | |
|--|------------------|
| Power supply (V / Ø / Hz) | 208-230 / 1 / 60 |
| Min. circuit ampacity indoor/outdoor (A) | 3.0 / 33.0 |
| Max. fuse indoor/outdoor (A) | 15.0 / 35.0 |

| Compressor Data | |
|----------------------------------|------------|
| Type: | Rotary |
| Refrigerant oil /oil charge (ml) | VG74 / 670 |
| Input (W) | 2200 |
| Rated current (RLA/A) | 10.0 |

| 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 |

| Piping | |
|-------------------------------------|--------------|
| Refrigerant precharge (oz/kg) | 112.88 / 3.2 |
| 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) | 213.20 / 65 |
| Max. difference in height (ft/m) | 98.40 / 30 |

| System Data | |
|---------------------------|-----------|
| Refrigerant type | R454B |
| Design pressure (PSIG) | 550 / 340 |
| Dehumidification (pts/hr) | 9.72 |

| | | |
|-----|---|---------------------------------------|
| IDU | 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 / 323.7 |
| | Approx. Air Throw Range ft (m) | 29.5 / 9 |
| | Noise level, Turbo / H / M / L / Si (dB(A)) | N/A / 49 / 43.5 / 34.5 / 31.5 |
| | Net weight (lbs / kg) | 43.21 / 19.6 |
| ODU | 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) | 880 / 700 / 500 |
| | Air flow, Max (CFM) | 2235.3 |
| | Noise level, Max (dB(A)) | 63.0 |
| | Net weight (lbs / kg) | 150.35 / 68.2 |
| | Gross weight (lbs / kg) | 160.27 / 72.7 |

| Accessories | |
|--------------------------|-----------------------|
| BMS-WT2-XXD (8733962707) | Wired Wall Thermostat |
| BMS-DRY-XXD (8733969263) | 24V Interface |
| BMS-PK3-7X1 (8733951015) | 25ft Lineset |

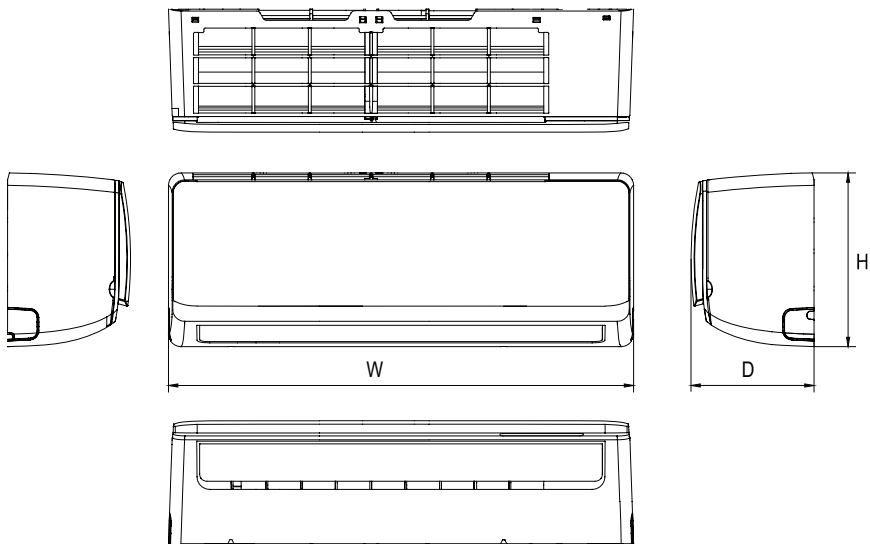
| Standard Parts | |
|----------------|----------------|
| 8-733-969-088 | Remote Control |

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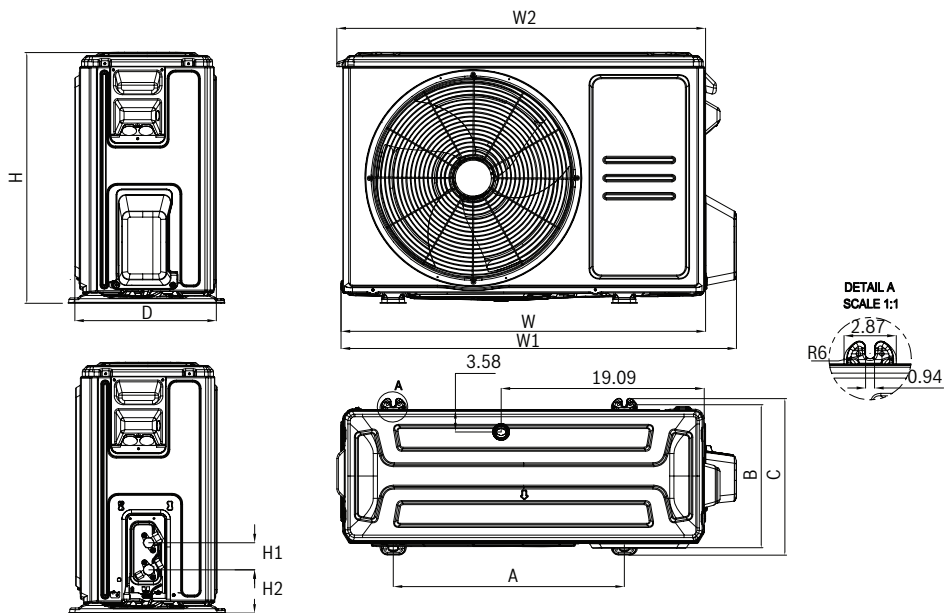


Indoor Unit Dimensions and Connections



| Model | W (in) | D (in) | H (in) |
|----------------------|--------|--------|--------|
| BMS500-AAU036-1AHWXD | 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-AAS036-1CSXRD | 37.24 | 16.14 | 31.89 | 40.55 | 37.24 | 2.36 | 4.25 | 26.5 | 15.87 | 17.9 |