

# Climate 5000 Series

## 18K BTU Single Zone Regular System

### Cassette IDU

Engineering  
Submittal  
Sheet



# BOSCH

#### Overview and Project Information



Project name

Location

Architect

Engineer

General contractor

Reference #

#### 18K Btu Single Zone Regular System - Cassette IDU

|                                          |                      |                      |                   |
|------------------------------------------|----------------------|----------------------|-------------------|
| Indoor part number                       |                      | 8733953111           |                   |
| Indoor model number                      |                      | BMS500-AAU018-1AHCXB |                   |
| Outdoor part number                      |                      | 8733956191           |                   |
| Outdoor model number                     |                      | BMS500-AAS018-1CSXRC |                   |
| Efficiency Data                          |                      | AHRI 210/240 2017    | AHRI 210/240 2023 |
| SEER                                     |                      | 20.5                 | 20.5              |
| EER                                      |                      | 12.5                 | 12.5              |
| HSPF Region IV                           |                      | 11                   | 10.5              |
| HSPF Region V                            |                      | 9                    | 8.0               |
| COP(47F)                                 |                      | 2.78                 | 2.78              |
| COP (5F)                                 |                      | 1.75                 | 2.16              |
| Performance Data                         |                      | AHRI 210/240 2017    | AHRI 210/240 2023 |
| Cooling                                  | Capacity Range       | 5600~16000           | 5600~16000        |
|                                          | Rated Capacity       | 16000                | 16000             |
|                                          | Current              | 6.01                 | 6.01              |
|                                          | Input Power          | 1340                 | 1340              |
| Heating                                  | Capacity Range       | 7700~18500           | 7700~19000        |
|                                          | Rated Capacity (47F) | 18500                | 19000             |
|                                          | Rated Capacity (5F)  | 9500                 | 12700             |
|                                          | Current              | 8.21                 | 8.21              |
|                                          | Input Power          | 1950                 | 1950              |
| Electrical Data                          |                      |                      |                   |
| Power supply (V / Ø / Hz)                |                      | 208-230 / 1 / 60     |                   |
| Min. circuit ampacity indoor/outdoor (A) |                      | 1.9 / 17.0           |                   |
| Max. fuse indoor/outdoor (A)             |                      | 15.0 / 25.0          |                   |
| Compressor Data                          |                      |                      |                   |
| Type:                                    |                      | Rotary               |                   |
| Refrigerant oil /oil charge (ml)         |                      | VG74 / 440           |                   |
| Input (W)                                |                      | 1050                 |                   |
| Rated current (RLA/A)                    |                      | 13.6                 |                   |
| Piping                                   |                      |                      |                   |
| Refrigerant precharge (oz/g)             |                      |                      | 56.44 / 1600      |
| 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           |

#### Operation Range

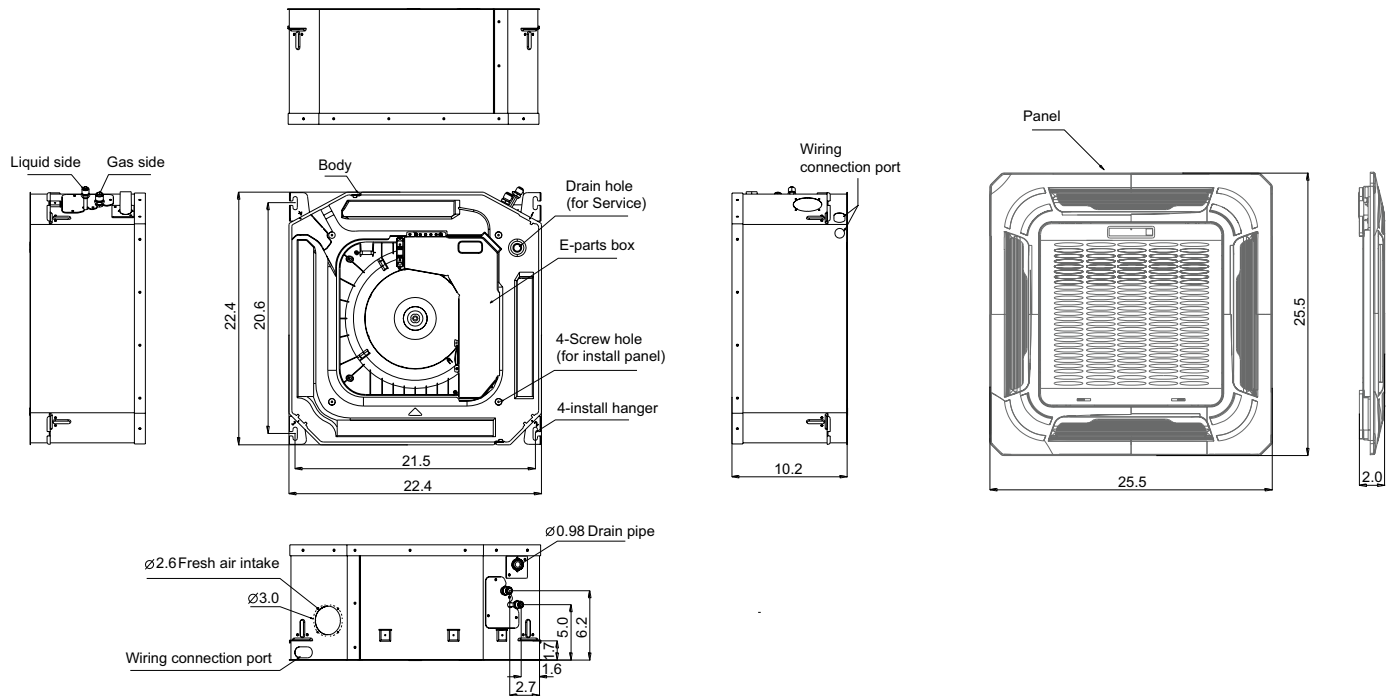
|                           |                                |                              |
|---------------------------|--------------------------------|------------------------------|
| ODU                       | Cooling (°F / °C)              | -13~122 / -25~50             |
|                           | Heating (°F / °C)              | -13~86 / -25~30              |
| IDU                       | Cooling (°F / °C)              | 60~90 / 16~32                |
|                           | Heating (°F / °C)              | 32~86 / 0~30                 |
| <b>System Data</b>        |                                |                              |
| Refrigerant type          |                                | R410A                        |
| Design pressure (PSIG)    |                                | 550/340                      |
| Dehumidification (pts/hr) |                                | 3.79                         |
| IDU                       | Fan motor model                | ZKFN-46-8-1                  |
|                           | Fan motor qty (ea)             | 1                            |
|                           | Fan motor input (W)            | 45                           |
|                           | Fan speed (RPM)                | 730 / 630 / 570              |
|                           | Air flow, H / M / L (CFM)      | 562.35 / 485.29 / 438.82     |
|                           | Approx Air Throw Range ft (m)  | 13 (4) ~ 30 (9)              |
|                           | Noise level, H / M / L (dB(A)) | 43.5 / 38.5 / 35.5           |
|                           | Net weight (lbs / kg)          | 35.71 / 16.2                 |
|                           | Gross weight (lbs / kg)        | 46.96 / 21.3                 |
|                           | Panel net weight (lbs / kg)    | 5.52 / 2.5                   |
| ODU                       | Gross panel weight (lbs / kg)  | 9.92 / 4.5                   |
|                           | Drain pipe diameter (mm)       | ODΦ25                        |
|                           | Fan motor model                | ZKFN-80-8-3                  |
|                           | Fan motor qty (ea)             | 1                            |
|                           | Fan motor input (W)            | 88.0                         |
|                           | Fan motor speed (RPM)          | 810 / 720                    |
|                           | Air flow, Max (CFM)            | 1765                         |
|                           | Noise level, Max (dB(A))       | 58.0                         |
|                           | Net weight (lbs / kg)          | 95.02 / 43.1                 |
|                           | Gross weight (lbs / kg)        | 101.85 / 46.2                |
| <b>Accessories</b>        |                                |                              |
| BMS-CCG-XXX (8733953125)  |                                | Decorative Grille - 9K ~ 18K |
| BMS-WT2-XXC (8733956180)  |                                | Wired Wall Thermostat        |
| BMS-DRY-XXX (8733953129)  |                                | 24V Interface                |
| BMS-PK2-7X1 (8733951011)  |                                | 25ft Lineset                 |
| BMS-PK2-5X1 (8733951017)  |                                | 16ft Lineset                 |
| <b>Standard Parts</b>     |                                |                              |
| 8-733-953-578             |                                | Remote Control               |

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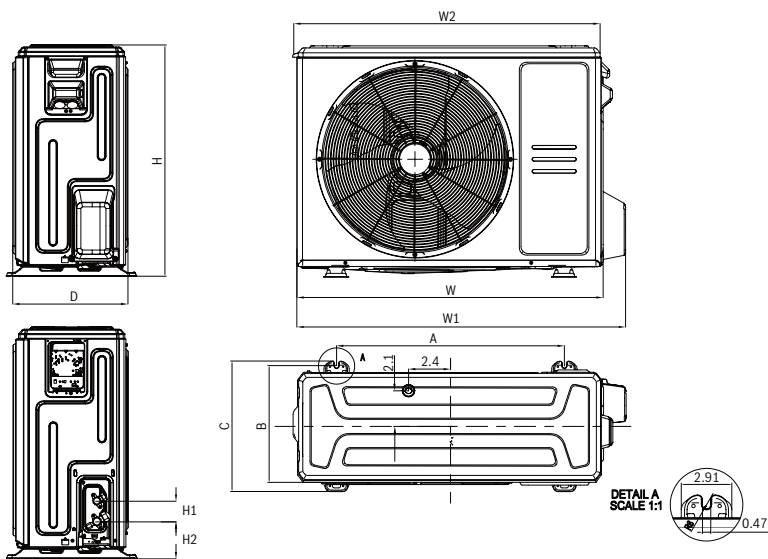


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## Indoor Unit Dimensions and Connections



## Outdoor Unit Dimensions and Connections



| Model                | W (in) | D (in) | H (in) | W1 (in) | W2 (in) | A (in) | B (in) | C (in) | A1 (in) | A2 (in) |
|----------------------|--------|--------|--------|---------|---------|--------|--------|--------|---------|---------|
| BMS500-AAS018-1CSXRC | 35.0   | 13.5   | 26.5   | 37.6    | 35.2    | 26.1   | 13.9   | 14.96  | 2.91    | 0.47    |