

## SPECIFICATION GUIDELINES

### **BIUB - Backward Inclined Utility Set, Belt Driven**

Aerovent Model BIUB, Centrifugal Utility Sets are designed for exhausting relatively clean air in HVAC applications.

Utility sets are designed to meet AMCA requirements for Class L, Class I and Class II construction with both aluminum and steel impellers. Fan housings for Class L fans are galvanized steel while Class I and Class II are coated with a polyester powder coat as standard. BIUB fans offer superior air and sound performance and the AMCA certified rating seal for air and sound. The AMCA Certification for air and sound applies to both inlet and outlet sound power levels. Model BIUB is available in belt driven configurations. The BIUB housing is rotatable. Class L fans can be positioned in any one of five standard fan outlet directions. Class I and Class II fans can be positioned in any one of eight standard fan outlet directions.

#### **Application**

Ventilating sets are an excellent choice for general exhaust and supply requirements of commercial and light industrial applications. They are suitable for indoor and outdoor use, with the addition of a weather cover to enclose the motor and drives. Adjustable motor plates are included inside the bearing pedestal. The fans are also more compact and have a smaller footprint than Arrangement 9 fans. Utility sets can be used in conjunction with HEPA filters to create negative pressure rooms in alternate care sites. These fans can also be used in Air Make-Up units in those same alternate care sites.

#### **Sizes and Performance**

9" to 60" impeller diameters (228 mm to 1,524 mm)  
Airflow to 78,600 CFM (133,500 m<sup>3</sup>/hour)  
Static pressure to 8" w.g. (1,987 Pa)

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### **SCBD - Square Inline Centrifugal Fan, Belt Driven**

Aerovent Model SCBD is a belt driven, square inline fan suitable for duct installations handling clean ventilation air. Duct collars are provided to eliminate the need for square to round transition fittings.


Model SCBD features galvanized steel construction. These units are designed for duct applications handling relatively clean air, including supply, exhaust and return air systems. SCBD fans offer high efficiency and quiet operation in a compact design that can be mounted in any position (horizontal, vertical or angular). Model SCBD is AMCA certified for air and sound and is UL/cUL 705 listed.

#### **Application**

A square inline fan features highly efficient, non-overloading, backward inclined centrifugal impellers precisely matched to a spun inlet venturi. Fan impellers are statically and dynamically balanced. Square inline fans can be used in conjunction with HEPA filters to create negative pressure rooms in alternate care sites. Accessibility: These units can be easily serviced through access panels without removing duct connections.

#### **Sizes and Performance**

10.5" to 44.5" impeller diameters (20 mm to 1,130 mm)  
Airflow from 230 to 27,500 CFM (425 to 46,722 m<sup>3</sup>/hour)  
Static pressure to 3.5" w.g. (869 Pa)



## SCDD - Square Inline Centrifugal Fan, Direct Drive

Aerovent Model SCDD is a direct drive, square inline fan suitable for duct installations handling clean ventilation air. Duct collars are provided to eliminate the need for square to round transition fittings.

Model SCDD features galvanized steel construction. These units are designed for duct applications handling relatively clean air, including supply, exhaust and return air systems. SCDD fans offer high efficiency and quiet operation in a compact design that can be mounted in any position (horizontal, vertical or angular). Model SCDD is AMCA certified for air and sound and is UL/cUL 705 listed.

### Application

A square inline fan features highly efficient, non-overloading, backward inclined centrifugal impellers precisely matched to a spun inlet venturi. Fan impellers are statically and dynamically balanced. Square inline fans can be used in conjunction with HEPA filters to create negative pressure rooms in alternate care sites. Direct drive square inline fans are also available with EC motors for quick and simple performance adjustment to the site's specific needs. Accessibility: These units can be easily serviced through access panels without removing duct connections.

### Sizes and Performance

10.5" to 18.25" impeller diameters (270 mm to 465 mm)  
Airflow from 230 to 5,800 CFM (391 to 9,900 m<sup>3</sup>/hour)  
Static pressure to 2" w.g. (500 Pa)



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