Type TEBC
Duct Fans
**Type TEBC**
Belt Drive 2600 CFM to 52,000 CFM to 1-1/4" Static Pressure

**Application**
TEBC duct fans are designed to operate reliably in all environments including elevated temperature or contaminated air.

**Features**
The motor, belt(s) and bearings are isolated from the air stream.
The steel fan shaft is supported by two pillow-block ball bearings that are mounted in an enclosed housing to provide years of trouble free service under harsh conditions.

TEBC models have 4 or 6 high strength cast aluminum airfoil blades that are securely attached to a heavy cast aluminum hub. Blade pitch is set for catalog performance. The blade pitch should not be adjusted without first contacting your American Coolair representative.

TEBC models incorporate specifically engineered airfoil sections and hub sizes for optimum efficiency and physical strength.

Fan speed reduction is conveniently available on most models by use of variable pitch motor pulley.

If an increase in fan speed is desired, contact your American Coolair representative for information on fan speed and motor load prior to making any adjustments.

The model TEBC duct fan is recommended for use with ambient temperatures up to 250°F.

**DIMENSIONS IN INCHES**

<table>
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<tr>
<th>Fan Size</th>
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<th>D</th>
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Drawing of belt and drive are schematic. Single belts are used on certain sizes.
### Performance Ratings
American Coolair Corporation certifies that the type TEBCC units shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

### Typical Specifications
Duct fans shall be American Coolair belt drive type TEBCC manufactured by American Coolair Corporation, Jacksonville, Florida; specific models shall be as shown on the fan schedule. Fan housing shall be of heavy gauge steel. Ball bearings shall be of heavy duty pillow-block type. Fans shall be licensed to bear the AMCA Certified Ratings Seal for air and sound performance. (Specify CFM and static pressure, motor enclosure, phase and voltage, and accessories such as inlet bell with guard, mounting feet, and safety disconnect switch.)

<table>
<thead>
<tr>
<th>Item</th>
<th>Cubic Feet Per Minute (CFM) at Static Pressure</th>
<th>Fan Size</th>
<th>Fan Model</th>
<th>Fan Size</th>
<th>Motor HP</th>
<th>RPM</th>
<th>Sones</th>
<th>Brake HP</th>
<th>Blade No.</th>
<th>Pitch</th>
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1.—Performance shown is for Installation Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream.

2.—The first set of letters of the model number identify the type, drive configuration, and style. The next two numbers indicate the fan size; the next letter identifies the motor horsepower.

3.—Sone ratings apply to non-ducted application of fan. The sound ratings shown are loudness values in sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type B: free inlet fan sone levels. The sound ratings shown are at 0° static pressure.

4.—Maximum brake horsepower (BHP) within the catalog performance range. BHP at most static pressures listed is less than that shown, in some cases substantially less. For specific BHP values at individual static pressure points, contact your American Coolair representative. Power ratings (BHP) does not include drive losses. Bearing losses are included.

**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**
Accessories

MOUNTING FEET: When necessary to support the fan weight from floor or ceiling, mounting feet should be specified.
Applications which involve wall mounting should be referred to your American Coolair representative for recommended fan mounts. Type of support to which fan will be mounted and location relative to motor (or access panel) should be clearly stated.

SPARK RESISTANT CONSTRUCTION: For hazardous locations, any type TEBV fan can be ordered with an explosion-proof motor. Motors only qualify for Class I Group D and Class II Groups F & G hazards.

PROTECTIVE COATINGS: For most applications the American Coolair powder coating system will provide the necessary surface protection for painted parts. This system includes a thermostetting epoxy powder coating to a thickness of 3 mils and baked at 400°F for hardness, impact resistance, adhesion and chemical resistance.

For applications that require more specialized surface protection, American Coolair offers alternatives; 6 mil epoxy and others. For more information about special protective coatings contact your American Coolair representative.

SAFETY DISCONNECT SWITCH: This switch can be mounted near the fan and serve as a safety disconnect from the power supply.

COMPANION ANGLE: It is identical to the fan flange and may be welded to the adjoining duct to simplify fan installation.

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**WARNING**

DO NOT install fan with moving parts within 8 feet of floor or floor grade level without a guard that complies with OSHA regulations.

**CAUTION**

Do not use unless electrical wiring complies with all applicable codes. Do not wire without providing for power disconnect at the fan itself. Do not service except by a qualified maintenance technician and only after disconnecting the power source. Failure to observe these precautions can result in serious injury or death.

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**Limited Warranty**

In the sale of its products, American Coolair agrees to correct, by repairs or replacement, any defects in workmanship or materials that may develop under normal use for the period of one year from the date of shipment from the factory. Any product or part proving, upon American Coolair’s examination, to be defective during the limited warranty period will be replaced or repaired, at American Coolair’s option, f.o.b. factory, without charge.

Deterioration or wear caused by chemicals, abrasive action or excessive heat shall not constitute a defect.

Motors are guaranteed only to the extent of the manufacturers warranty.

American Coolair’s limited warranty does not apply to any of its products that have been subject to accidental damage, misuse by the user, unauthorized modifications, improper installation or electrical wiring, or lack of lubrication or other service requirements as established by American Coolair Corporation.

Repairs or replacements provided under the above terms shall constitute fulfillment of all American Coolair’s obligations with respect to limited warranty.

THE LIMITED WARRANTY STATED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING WITHOUT LIMITATION THAT OF MERCHANTABILITY AND FITNESS FOR USE.

NO LIABILITY FOR REINSTALLATION COSTS OR FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY NATURE IS ASSUMED OR SHALL BE IMPOSED UPON AMERICAN COOLAIR CORPORATION.

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**Represented By:**

All specifications in this brochure are subject to change without notice.

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