MODEL TDD
DIRECT DRIVE TUBEAXIAL DUCT FAN

MODEL FEATURES
• Rated up to 39,000 CFM in static pressure applications up to 1-1/4” w.g.
• Direct drive units have low sound levels and quiet operation
• Smaller sizes for areas with reduced airflow needs
• Require practically no maintenance
• AMCA Air Licensed

MODEL OVERVIEW
S&P’s tubeaxial line offers the widest range of sizes, horsepower and performance in the industry. Models TDD are high capacity tubeaxial fans rated from 800 to 39,000 CFM, with static pressure capability up to 1-1/4”.

They are used to exhaust air from or supply air to such typical commercial and industrial applications as general building ventilation, enclosed garages, paint spray booths, heat and smoke ventilation systems and other applications where air is moved through a duct system against moderate static pressure.

Direct drive Models TDD are best used for exhausting or supplying relatively clean ambient temperature air. They are available in smaller sizes for areas with reduced airflow needs and require practically no maintenance.

CONSTRUCTION FEATURES AND OPTIONS

Mounting Supports
Eight (8) mounting supports are welded to each fan to allow for universal mounting.

Propeller
Polypropylene and aluminum propellers are selected for maximum airflow and low sound.

Factory Run & Tested
For quality assurance and dependable operation.

cULus 705 Listed
For electrical reliability.

ACMA Seal
Assures rating of Air Performance.

Integral Inlet and Outlet Flanges
With mounting holes.

Motor
National brands with local service. Standard motors are heavy-duty open drip-proof. Other options available.

Housing
Heavy-gauge rolled galvanized steel with continuous welded seam and epoxy coating for maximum strength.

2 year fan housing warranty, 1 year motor warranty

All specifications are subject to change without notice unless approved in submittal by S&P USA.

October 2014

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CONSTRUCTION/SPECIFICATION CHECKLIST

Fan Housing
• Heavy-gauge rolled galvanized steel construction.
• Integral inlet and outlet flanges with mounting holes.
• Continuous welded and epoxy coated.
• Eight mounting supports welded to each fan.
• Rolled steel flange reinforcement on each end.

Propeller (Sizes 12 - 18)
• Polypropylene blades.
• Steel bushing.
• Blades are pitched for optimum efficiency.
• Statically and dynamically balanced.
• Aluminum blades are optional (by special quote only).

Propeller (Sizes 20-48)
• Three, five or six wing airfoil aluminum blades.
• Steel or aluminum hub plate with steel bushing.
• Blades are pitched for optimum efficiency.
• Statically and dynamically balanced.
• Polypropylene blades are optional (by special quote only).

Motors
• One year motor warranty.
• Brands are nationally recognized and locally serviced.
• Open drip-proof construction is standard.
• Premium-efficiency, explosion proof, totally enclosed fan cooled (TEFC) and corrosion duty motors can be specified.

Certifications
• cULus 705 Listed.
• AMCA Air Licensed.

Entire Fan Unit
• Factory assembled and tested prior to shipment for quality assurance.
OPTIONS/ACCESSORIES

- Floor Brackets (4)
- Hanging Brackets (4)
- Inlet Guard
- Outlet Guard
- Companion Flange (inlet)
- Companion Flange (outlet)
- Inspection Door (See location options below)
- Mounting Rails

**Inspection Door Location Options**
- 10 o’clock
- 2 o’clock

**Floor or Hanging Isolator Options**
- Rubber Isolator (Floor)
- Spring Isolator (Floor)
- Rubber Isolator (Hanging)
- Spring Isolator (Hanging)
MODEL TDD
DIRECT DRIVE TUBEAXIAL DUCT FAN

OPTIONS/ACCESSORIES

Hanging & Floor Brackets: For base or ceiling mounting. Neoprene and spring isolators are available.

Mounting Rails: Designed for vertical and horizontal mounting. Rail kits include mounting brackets. Vertical mounting available by special quote on sizes 34-48”.

Inlet/Outlet Guard: Prevents objects from entering the fan inlet or outlet. Includes companion flange.

Inspection Door: For inspection and blade service/cleaning. Bolted. Not available on sizes 12 and 16.

Companion Flanges: Inlet and/or outlet flanges are available for duct connection.

Disconnect Switch: Nonfused safety disconnect available for all motor sizes and enclosures. Specify prewired if desired. (Wiring not available on explosion proof and two speed motors).

Special Coatings (Epoxy Coating is Standard): For protective and decorative purposes. Available coatings include: Synthetic Resin and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.

MOUNTING CONFIGURATIONS

Note: The 12 & 16 are designed to mount to a supported duct work and do not have all mounting configurations.
Sizes 12 and 16

Performance & Dimensions

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<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>Nominal RPM</th>
<th>Max Watts</th>
<th>A</th>
<th>B</th>
<th>C</th>
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Max. Motor Frame: 56 56 145T 145T 213T
Housing Gauge: 16 16 14 14 12
Approx. Weight: 90 108 150 178 273
Flange Holes: 6 8 8 8 8

Diameter Flange Holes: 7/16"

Finish: Epoxy Coated Galvanized

Sizes 18, 20 and 24

Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance ratings only. Speed (rpm or rps) shown is nominal. Performance is based on actual speed of test.

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Model TDD
DIRECT DRIVE TUBEAXIAL DUCT FAN

Sizes 30, 34 and 36

Max. Motor Frame: 215T
Housing Gauge: 30" & 34" = 12
36" = 10
Approximate Weight:
30" = 320 lbs.
34" = 457 lbs
36" = 532 lbs.

Flange Holes:
8
Diameter Flange Holes:
7/16"
Finish:
Epoxy Coated Galvanized

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A: ID   B: OD   C: Length (*motor may extend past unit)

### Static Pressure (Inches W.G.)

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### Approximate Weight:
30" = 320 lbs.
34" = 457 lbs
36" = 532 lbs.

### Performance:
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*Note: The table and graph are placeholders for actual data and should be replaced with the actual content from the document.*
MODEL TDD
DIRECT DRIVE TUBEAXIAL DUCT FAN
Sizes 42 and 48

Max. Motor Frame: 256T
Housing Gauge: 10
Approximate Weight:
42" = 738 lbs.
48" = 834 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized

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