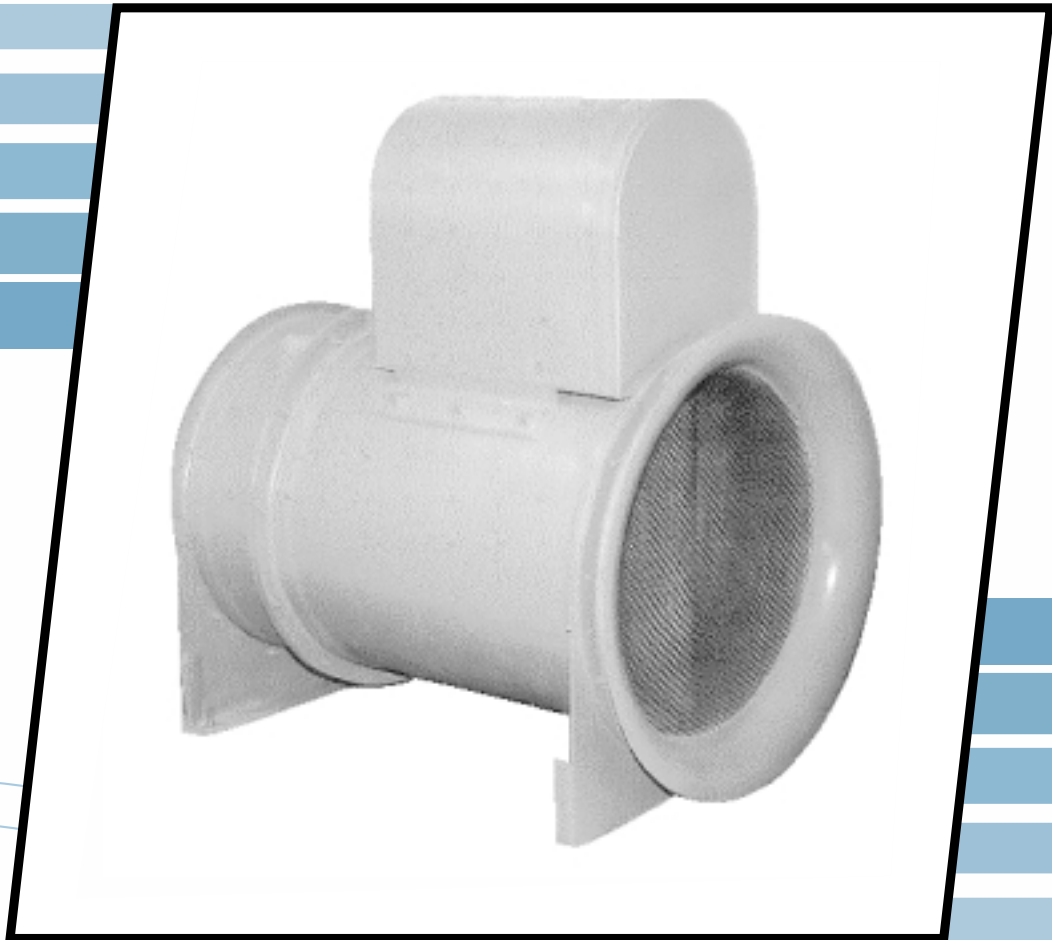




# COMPOSITE FAN TECHNOLOGY

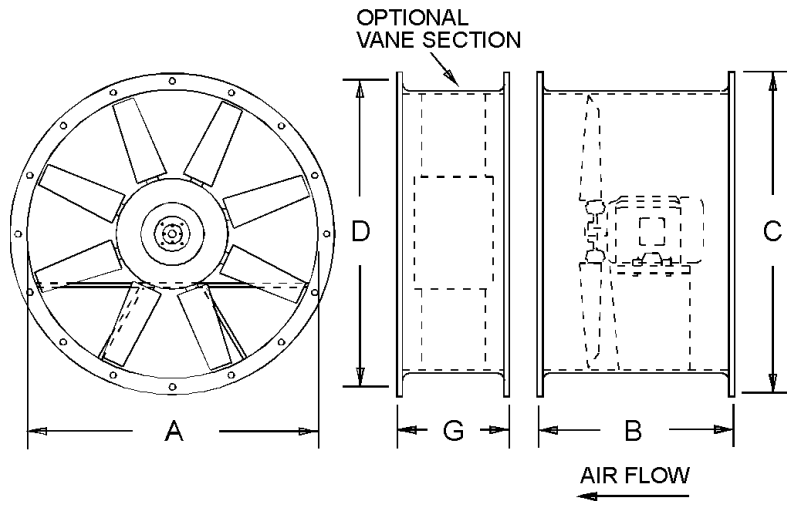
## **FRP** *Tubeaxial Fan*



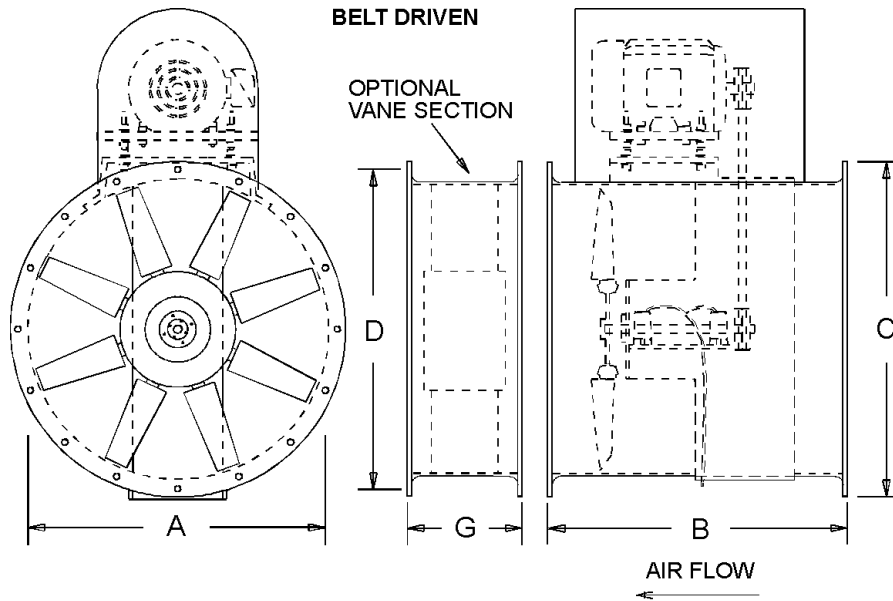
**Corrosion Resistant • Rugged Construction**

# Fiberglass Tubeaxial Fan Dimensions

## DIRECT DRIVE



## BELT DRIVEN



Direct Drive					
Prop Dia. A	B*	C	D	G	Housing Thick.
12"	20	17	15-1/2	8	1/4
16"	24	21	19-1/2	8	1/4
18"	24	23	21-1/2	8	1/4
20"	24	25	23-1/2	10	1/4
24"	28	29	27-1/2	10	1/4
30"	32	35	33-1/2	14	1/4
36"	36	41-3/4	40-1/2	14	1/4
42"	42	47-3/4	46-1/2	14	1/4
48"	48	54	52-1/2	16	5/16
54"	48	60	58-1/2	20	5/16
60"	48	66	64-1/2	20	5/16

Belt Driven					
Prop Dia. A	B	C	D	G	Housing Thick.
12"	20	17	15-1/2	8	1/4
16"	24	21	19-1/2	8	1/4
18"	24	23	21-1/2	8	1/4
20"	24	25	23-1/2	10	1/4
24"	28	29	27-1/2	10	1/4
30"	32	35	33-1/2	14	1/4
36"	36	41-3/4	40-1/2	14	1/4
42"	42	47-3/4	46-1/2	14	1/4
48"	48	54	52-1/2	16	5/16
54"	48	60	58-1/2	20	5/16
60"	48	66	64-1/2	20	5/16
72"	48	78	76-1/2	20	5/16

\*Dimension may vary with horsepower.

# Fiberglass Tubeaxial Fan Features

## Features

- **Sizes:** **Model TAD:** 12" - 60" direct drive, **Model TALP, TAHP, and TAHPV:** 12" - 72" belt driven.
- **Construction:** Fiberglass, Hetron 99P® polyester resin, Class 1 flame spread of 25 or less with UV inhibitor. Standard gray color.
- **Fan Housing:** FRP construction with flanged ends integral to housing.
- **Fan Propeller:** Highly efficient, air foil and helical shaped fiberglass blades attached to a fiberglass hub. Bushing protected by a removable cap for easy maintenance.
- **Drive Tube:** Fiberglass construction. On belt drive units, isolates drive components from airstream. Sealed with a neoprene shaft seal.
- **Bearings:** Heavy duty, cast iron, pillow block type with regreaseable fittings.
- **Shaft:** 304 stainless steel.
- **Motor:** Customer specified to suit requirements.
- **Motor Mount:** FRP construction, positive screw adjustable for belt tensioning.
- **Lubrication Lines:** Polyethylene lube lines, extend from the bearings to the exterior of the unit.
- **Motor Cover:** Fiberglass construction. Protects motor while allowing fresh intake air to enter drive tube.
- **Capacities:** Up to 36,000 CFM.
- **Pressures:** Up to 2-1/2" WG.

## Accessories

- **Vane Section:** FRP construction, mounted to the unit's discharge side. Increases efficiency at higher static pressures.
- **Isolated Design: Model TAC:** Direct drive unit with motor completely sealed from the airstream in a ventilated housing.



- **Clamshell Design:** Fan wheel completely swings out on hinged supports for convenient cleaning and servicing.
- **Special Materials:** Special resins, graphite impregnation with static grounding and synthetic veil are available to suit specific applications.
- **Hardware/Shaft:** 316 stainless steel or monel.
- **Disconnect Switch:** Non-fused, mounted to the exterior of the unit in NEMA 3R enclosure. May be factory pre-wired to motor.
- **Mounting Supports:** FRP hangers and mounting feet for vertical and horizontal mounting arrangements.
- **Roof Mount:** FRP curb caps, stack caps and intake/exhaust hoods are available.
- **Vibration Isolators:** Rubber-in-shear or spring type.

# Specifications

## Direct Drive Tubeaxial Fan

Furnish \_\_\_\_\_ each, size \_\_\_\_\_, Model (TAC, TAD) purchased from Composite Fan Technology.

Unit shall be constructed of Hetron 99P® polyester resin with a Class 1 flamespread of 25 or less.

The fan housing shall be of rugged construction with integrally molded flanged ends. Housing is to be a minimum thickness of (1/4" for sizes 12" to 42", 5/16" for sizes 48" to 60"). Flanged ends are to be a minimum of 1/2" thick.

Fan propeller is to be directly mounted to the motor shaft. Fiberglass blades shall have an air foil and helical design and attached to a fiberglass hub.

Motor mount shall be of solid fiberglass construction.

The fan shall have a capacity of \_\_\_\_\_ CFM at \_\_\_\_\_ inch(es) static pressure standard air and equipped with a \_\_\_\_\_ HP, \_\_\_\_\_ RPM, motor mounted out of the airstream. It shall be suitable for \_\_\_\_\_ volt, \_\_\_\_\_ phase, \_\_\_\_\_ cycle operation. Electrical connection motor leads are to be extended through conduit to the exterior of the unit to a junction box mounted to the fan housing. A motor with regreaseable fittings shall have lubrication lines extended to the exterior of the unit and mounted next to the junction box.

All hardware shall be (304SS, 316SS, monel).

Available accessories include: vane section, graphite impregnation with static grounding, synthetic veil, horizontal and vertical mounting feet and hangers, swing out access, disconnect switch mounted and wired, polyethylene mesh outlet guard and FRP roof curb, stack cap, intake/exhaust hood, vibration isolators.

## Belt Drive Tubeaxial Fan

Furnish \_\_\_\_\_ each, size \_\_\_\_\_, Model UBB purchased from Composite Fan Technology.

Unit shall be constructed of Hetron 99P® polyester resin with a Class 1 flamespread of 25 or less. Interior housing surface shall have a synthetic surfacing veil.

The fan housing shall be of rugged construction with integrally molded flanged ends. Housing is to be a minimum thickness of (1/4" for sizes 12" to 42", 5/16" for sizes 48" to 72"). Flanged ends are to be a minimum of 3/8" thick.

The fan shall have a capacity of \_\_\_\_\_ CFM at \_\_\_\_\_ inch(es) static pressure standard air and equipped with a \_\_\_\_\_ HP, \_\_\_\_\_ RPM, motor mounted out of the airstream. It shall be suitable for \_\_\_\_\_ volt, \_\_\_\_\_ phase, \_\_\_\_\_ cycle operation.

Bearings, shaft and drive shall be protected from the airstream by a fiberglass drive tube and mounted on fiberglass supports. The bearings shall be self-aligning

heavy duty ball or roller type and designed for a minimum average life of 50,000 hours. Polyethylene lubrication lines shall extend to unit exterior and include grease fittings. The fan shaft shall be of (304, 316) stainless steel with a polypropylene shaft seal. Unit shall be equipped with a (fixed, adjustable) v-belt drive selected with a 1.5 service factor.

Motor and drive shall be protected by a fiberglass motor cover.

Fiberglass propeller blades shall have an air foil and helical design and attached to a fiberglass hub.

All hardware shall be (304SS, 316SS, monel).

Available accessories include: vane section, graphite impregnation with static grounding, vertical and horizontal hangers and mounting feet, swing out access, disconnect switch mounted and wired, polyethylene screen, FRP roof curb, stack cap, intake/exhaust hood, vibration isolators.

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