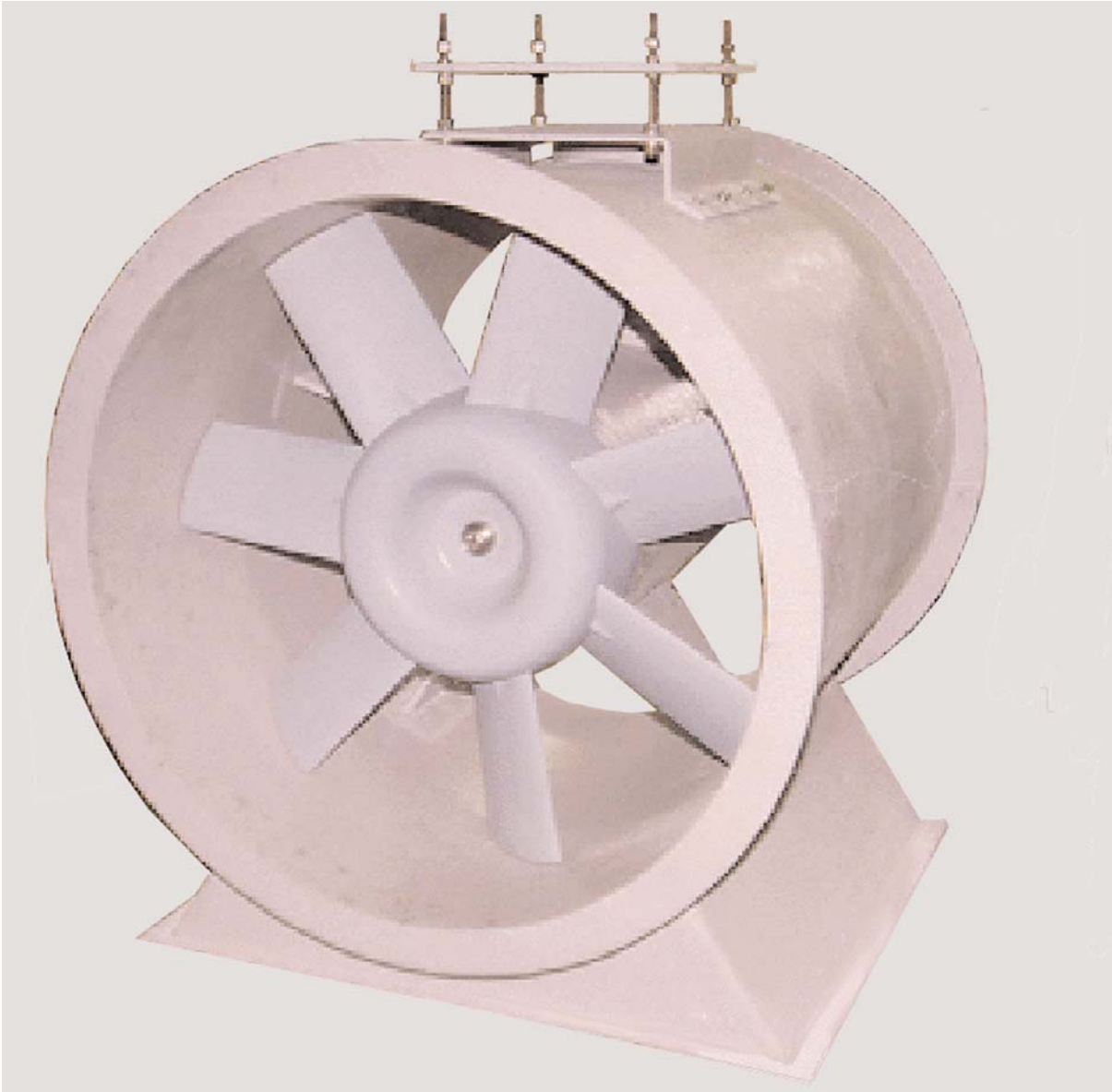


Fiberglass Tubeaxial Fan



 **Polymil Products, Inc.**

51 North St. / P.O. Box 125 Le Roy, NY 14482
Phone (585) 768-8170 Web Site: www.polymil.com
Fax (585) 768-7830 Email: sales@polymil.com

Fiberglass Tubeaxial Fan Features

Features

- **Sizes**^{*}: Model TAD: 12" thru 60" direct drive Model TAB: 12" thru 72" belt drive
- **Construction**: Fiberglass, Hetron 99P® polyester resin, Class 1 flame spread of 25 or less with UV inhibitor. Standard color is gray.
- **Fan Housing**: Fiberglass construction with flanged ends. Synthetic veil provides smooth interior for efficient air flow and creates an impenetrable surface to most airstream corrosives.
- **Fan Propeller**: Highly efficient, air foil shaped fiberglass reinforced blades attached to a fiberglass hub. Bushing protected by a removable cap for easy maintenance. Air foil propellers can be custom designed to meet air flow requirements.
- **Drive Tube**: Fiberglass construction including bearing mounts. Sealed with a neoprene shaft seal.
- **Bearings**: Heavy duty, cast iron, pillow block type with regreaseable fittings.
- **Shaft**: 304 stainless steel.
- **Motor**: NEMA design B, heavy duty, industrial continuous duty, totally enclosed with sealed ball bearings. Severe duty motors are standard on direct drive units with motor in the airstream.
- **Motor Mount**: Fiberglass construction, adjustable for belt tensioning.
- **Lube Lines**: Polypropylene, extended from the bearings to the exterior of the unit.
- **Motor Cover**: Fiberglass construction. Protects motor while allowing fresh intake air to enter drive tube.
- **Also available**: Vaneaxial fans with permanent fiberglass vanes molded into housing. Consult factory



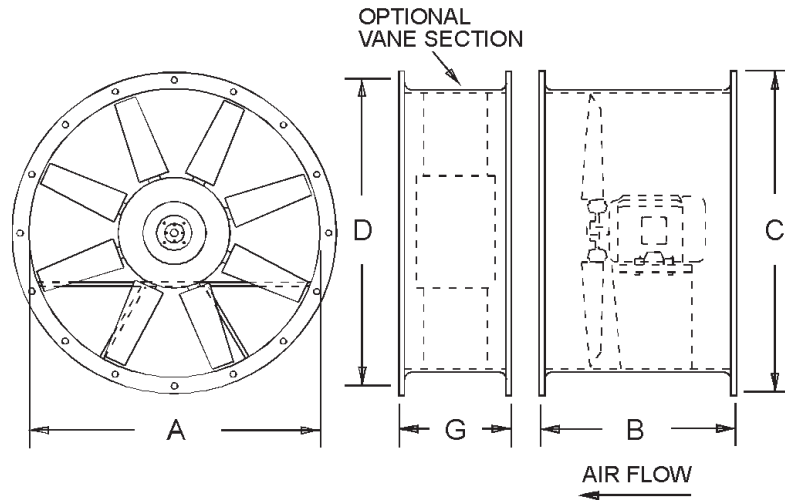
* Larger sizes are available. Consult factory.

Accessories

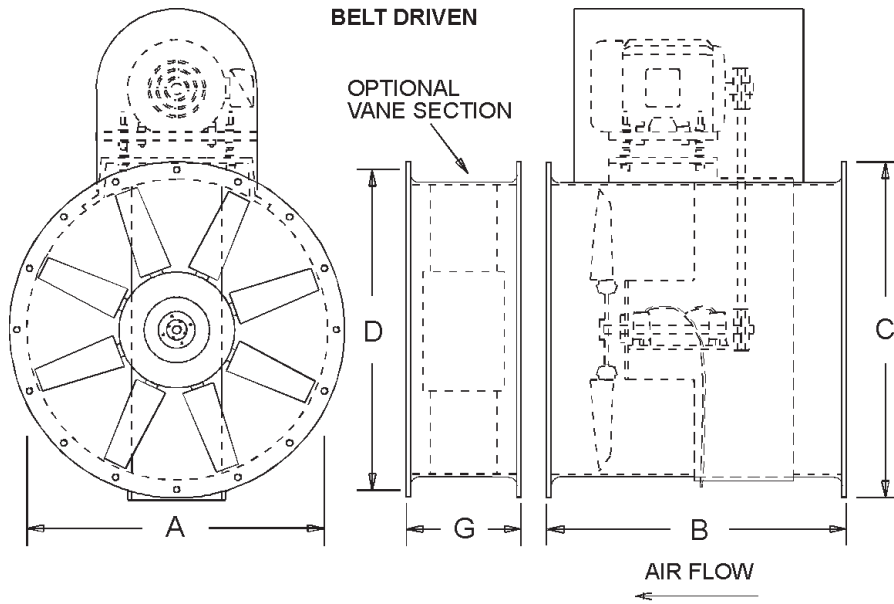
- **Vane Section**: Fiberglass construction, mounted to the discharge side of the fan. Allows the unit to operate more efficiently at higher static pressures.
- **Isolated Design**: Motor is direct connected to the fan wheel but is completely sealed from the airstream in a ventilated housing. Reduces maintenance by eliminating belts and bearings.
- **Special Resins**: A variety of special resins are available to suit a specific corrosion application. Carbon impregnation is also available for explosive applications.
- **Hardware/Shaft**: 316 stainless steel or monel.
- **Mounting Supports**: Horizontal and vertical fiberglass mounting feet and hangers. Available with vibrational isolators.
- **Clamshell Design**: Allows fan wheel to completely swing out on hinged supports for frequent maintenance and inspection.
- **Disconnect Switch**: Non-fused, mounted to the exterior of the unit in NEMA 3R enclosure. Can be factory pre-wired to motor. Location varies.
- **Roof Mount**: Curb caps, stack caps and intake/exhaust hoods in all fiberglass construction can be provided.

Fiberglass Tubeaxial Fan Dimensions

DIRECT DRIVE



BELT DRIVEN



Direct Drive					
Prop Dia. A	B*	C	D	G	Housing Thickness
12	20	17	15-1/2	8	3/16
16	24	21	19-1/2	8	3/16
18	24	23	21-1/2	8	3/16
20	24	25	23-1/2	10	3/16
24	28	29	27-1/2	10	3/16
30	32	35	33-1/2	14	3/16
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	66-1/2	65	20	5/16

*Dimension may vary with horsepower

Belt Driven					
Prop Dia. A	B	C	D	G	Housing Thickness
12	20	17	15-1/2	8	3/16
16	24	21	19-1/2	8	3/16
18	24	23	21-1/2	8	3/16
20	24	25	23-1/2	10	3/16
24	28	29	27-1/2	10	3/16
30	32	35	33-1/2	14	3/16
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	66-1/2	65	20	5/16
72	48	78-1/2	77	20	3/8

Specifications

Direct Drive Tubeaxial Fan

Furnish _____ each, size _____, Model TAD as manufactured by Polymil Products, Inc.

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 (3/16" for sizes 12" to 30", 1/4" for sizes 36" 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 rated for severe duty service and 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 regreasable 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, carbon impregnation with static grounding, horizontal and vertical mounting feet and hangers, swing out access, disconnect switch mounted and wired, polyethylene mesh outlet guard and fiberglass roof curb, stack cap and intake/exhaust hood.

Belt Drive Tubeaxial Fan

Furnish _____ each, size _____, Model TAB as manufactured by Polymil Products, Inc.

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 (3/16" for sizes 12" to 30", 1/4" for sizes 36" to 42", 5/16" for sizes 48" to 72"). Flanged ends are to be a minimum of 1/2" 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 standard NEMA design, totally enclosed and 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. Polypropylene 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, carbon impregnation with static grounding, horizontal and vertical mounting feet and hangers, swing out access, disconnect switch mounted and wired, polyethylene mesh outlet guard and fiberglass roof curb, stack cap and intake/exhaust hood.



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