

Fiberglass Hooded Exhaust/Supply Fan



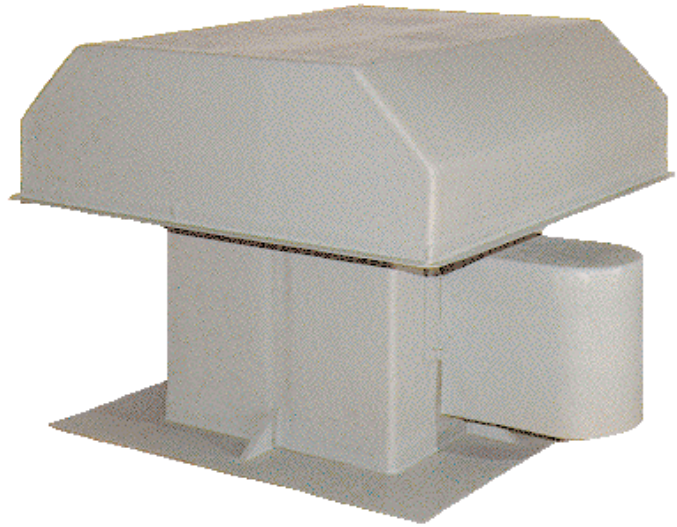
 **Polymil Products, Inc.**

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Fiberglass Hooded Fan Features

Features

- **Sizes:** Model HD: 12" thru 60" direct drive.
Model HB: 12" thru 72" belt drive.
Either model can be arranged for supply or exhaust.
- **Construction:** Fiberglass, Hetron 99P® polyester resin, Class 1 flame spread of 25 or less with UV inhibitor. Standard color is gray.
- **Stack:** Fiberglass construction. Synthetic veil provides smooth interior for efficient air flow and creates a resin rich, impenetrable surface to most airstream corrosives.
- **Venturi:** Fan wheel operates in a fiberglass venturi orifice molded into the stack, increasing air flow efficiency.
- **Fan Propeller:** Highly efficient, air foil shaped fiberglass reinforced blades attached to a fiberglass hub. Bushing protected by a removable cap for easy maintenance.
- **Curb Cap:** Fiberglass construction, integrally formed to fan housing. Size can be adapted to fit existing curbs.
- **Hood:** Fiberglass construction, properly sized as to minimize restriction to air flow and prevent water entrainment on supply applications. All structural support members are solid fiberglass.
- **Drive Tube:** Fiberglass construction including bearing mounts. Sealed with a 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 the motor in the airstream.

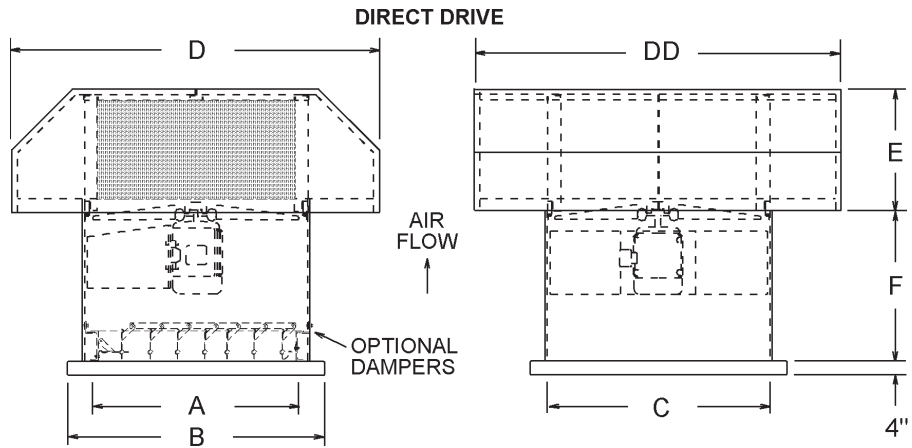


- **Motor Mount:** Fiberglass construction, adjustable for belt tensioning.
- **Lube Lines:** Polypropylene, extended from bearings to the exterior of the unit.
- **Motor Cover:** Fiberglass construction.

Accessories

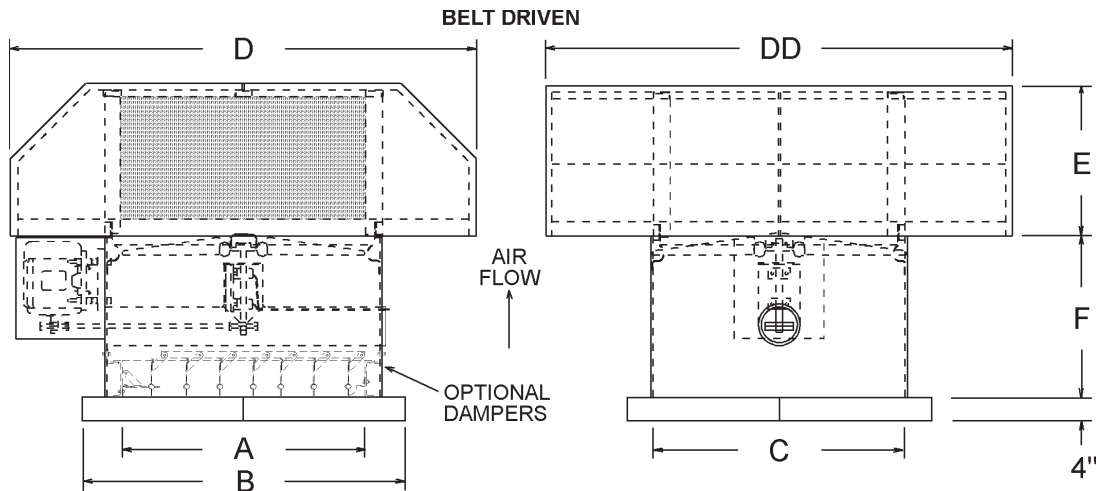
- **Isolated Design:** Motor is directly connected to the fan wheel but is completely sealed from the airstream in a ventilated housing. Reduces maintenance by eliminating belts and bearings.
- **Reversible:** The fan wheel can be assembled to provide reversible air flow for all season ventilation.
- **Special Resins:** A variety of special resins are available to suit a specific corrosion application. Carbon impregnation is also available for explosive applications.
- **Filtered Hoods:** A variety of filter styles can be mounted in the hood to filter exhaust or supply air.
- **Dampers:** Heavy duty fiberglass construction, mounted in a slide-out tray in the fan stack for easy maintenance. If motor operation is required, the 115v motor is mounted out of the airstream in a fiberglass enclosure.
- **Screen:** Both safety screen and birdscreen are available to prevent the entrainment of foreign objects into the fan or building. Standard screens are polyethylene. Stainless steel is also available.
- **Hardware:** 316 stainless steel or monel.
- **Disconnect Switch:** Non-fused, mounted to the exterior of the unit in NEMA 3R enclosure. Can be factory pre-wired to motor.
- **Access Doors:** Bolt on with seals.
- **Roof Curbs:** Available.

Fiberglass Hooded Fan Dimensions



Direct Drive								
Prop Dia. A	B	C	D	DD	E	F*	Hood Thick.	Stack/Base Thick.
20"	34	24	42	42	15	30	1/8	1/4
24"	38	28	52	52	15	30	1/8	1/4
30"	46	36	62	62	15	30	1/8	1/4
36"	52	42	72	72	17	36	1/8	1/4
42"	58	48	82	82	20	36	3/16	1/4
48"	64	54	92	92	24	36	3/16	1/4
54"	70	60	120	92	26	40	3/16	5/16
60"	76	66	120	96	28	48	3/16	3/8

*Dimension may vary with horsepower.
Hood sizes may vary with air requirements.



Belt Driven								
Prop Dia. A	B	C	D	DD	E	F*	Hood Thick.	Stack/Base Thick.
20"	34	24	42	42	15	30	1/8	1/4
24"	38	28	52	52	15	30	1/8	1/4
30"	46	36	62	62	15	30	1/8	1/4
36"	52	42	72	72	17	36	1/8	1/4
42"	58	48	82	82	20	36	3/16	1/4
48"	64	54	92	92	24	36	3/16	1/4
54"	70	60	120	92	26	40	3/16	5/16
60"	76	66	120	96	28	48	3/16	3/8
72"	88	78	120	120	30	48	3/16	3/8

*Dimension may vary with horsepower.
Hood sizes may vary with air requirements.

Specifications

Direct Drive Hooded Fan

Furnish _____ each, size _____, Model HD 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 stack shall be minimum thickness of (1/4" for sizes 20" to 48", 5/16" for size 54", 3/8" for sizes 60" to 72"). Fiberglass venturi shall be mounted in fan stack and arranged for either exhaust or supply operation. Fiberglass hood shall contain structural fiberglass hood supports. Motor mount shall be of solid fiberglass construction.

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.

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: reversible air flow design, carbon impregnation with static grounding, filters, fiberglass dampers shall be (auto backdraft, 115v motor actuated with motor mounted out of airstream in an FRP enclosure) and shall be mounted in fan stack and accessed by slide out tray, 1/2" polyethylene mesh mounted in removable PVC frames, disconnect switch mounted and wired, neoprene sealed access doors, fiberglass roof curb.

Belt Drive Hooded Fan

Furnish _____ each, size _____, Model HB 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 stack shall be minimum thickness of (1/4" for sizes 20" to 48", 5/16" for size 54", 3/8" for sizes 60" to 72"). Fiberglass venturi shall be mounted in fan stack and arranged for either exhaust or supply operation. Fiberglass hood shall contain structural fiberglass hood supports. 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 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: reversible air flow design, carbon impregnation with static grounding, filters, fiberglass dampers shall be (auto backdraft, 115v motor actuated with motor mounted out of airstream in an FRP enclosure) and shall be mounted in fan stack and accessed by slide out tray, 1/2" polyethylene mesh mounted in removable PVC frames, disconnect switch mounted and wired, neoprene sealed access doors, fiberglass roof curb.



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