

PolyStack High Plume Exhaust Stack System



 **Polymil Products, Inc.**

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PolyStack Features

Polymil Products, Inc. high velocity exhaust stacks are ideally suited to exhausting contaminants from ventilation systems where corrosion is also a concern.

PolyStack exhaust stacks are used for dispersion of fumes, preventing these fumes from re-entering buildings. Available accessories include inlet plenums, ducts, and control dampers for use with the PolyStack exhaust stack system. Plume heights equivalent to conventional stacks can be achieved with lower profiles.

Features

- Sizes: Available in 10" to 36" wheel sizes. Consult factory for larger units.
- Construction: Fiberglass, Hetron 99P® polyester resin construction with antimony trioxide for a Class 1 flame spread of 25 or less.
- Color: Gray, standard. For other colors consult the factory.
- Motor Arrangement: Available in either direct drive or belt driven arrangements. Direct driven units have the motor isolated from air stream. Belt driven units have a high velocity stack mounted on the outlet of either a scroll type housing or an inline fan. Scroll type housings are available with motor arrangements 1,9, or 10. Motor cover standard on arrangement 10 fans.
- Hardware: 304 stainless steel.
- Wheel: Backwardly curved wheel for non-overloading performance and quiet operation. Self-cleaning radial wheels or mixed flow wheels are available.
- Shaft: 316 SS or encapsulated steel with shaft seal.
- Mounting: Direct Driven units include cap for mounting on plenum boxes or roof curbs.
- Scroll units have slip fit inlets standard, flanged style available.

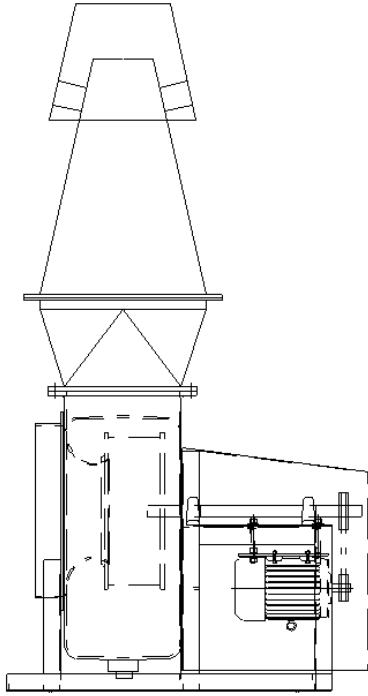


- Stormband mounted on adjustable mounts to control amount of secondary dilution air.

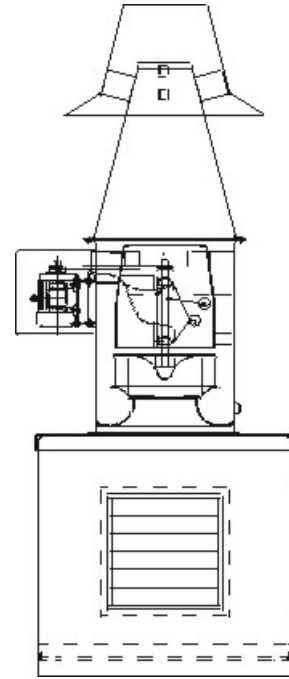
Options

- High velocity stack mounted on inline centrifugal fan for special applications.
- Special resins are available for specific corrosive applications.
- Spark resistant construction with carbon impregnation for static grounding with static grounding lugs.
- Surface veil applied to airstream surfaces to increase corrosion resistance.
- Hardware: 316 stainless steel, for other types consult factory.
- Shaft: 304 or 316 stainless steel.
- Complete line of fiberglass accessories is available: Fiberglass duct work, inlet plenums, and dampers for flow control.
- Disconnect Switches, Vibration Isolators, access doors.
- Special units for low flow rates.

ARRANGEMENTS



Belt Drive Backward Inclined Fan with High Plume Exhaust Nozzle



Belt Drive Inline Centrifugal Fan with High Plume Exhaust Nozzle and Mixing Box



Direct Drive PolyStack with easily removed stack for access to motor and wheel. Motor compartment sealed with o-rings.

Selection Table
PolyStack Performance

Unit Size	Minimum Air Flow (CFM)	Maximum Air Flow (CFM)
10	1065	2112
12	1535	4223
15	2381	6582
18	3420	9477
22	5150	14218
24	6130	16892
27	7780	21289
30	9630	26324
33	11670	31955
36	13790	37967

Effective stack heights are based on nozzle diameter and can be adjusted to match your criteria. Call with requirements and we can adjust to suit your specifications.



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