

AmericanAirFilter[®] Design M FabriPulse[®]

Engineering Data - Integral Fan

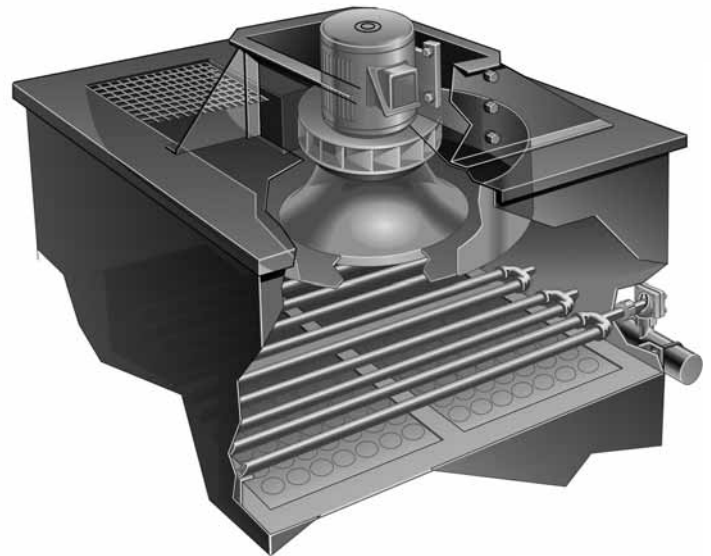
Supplement to Bulletin APC-1-411

The Design M FabriPulse[®] pulse-jet dust collector meets the needs of industrial dust collection applications that have low air volume and require small, compact filter sizes. It is engineered to give years of efficient service and minimum downtime in continuous duty dust collection applications.

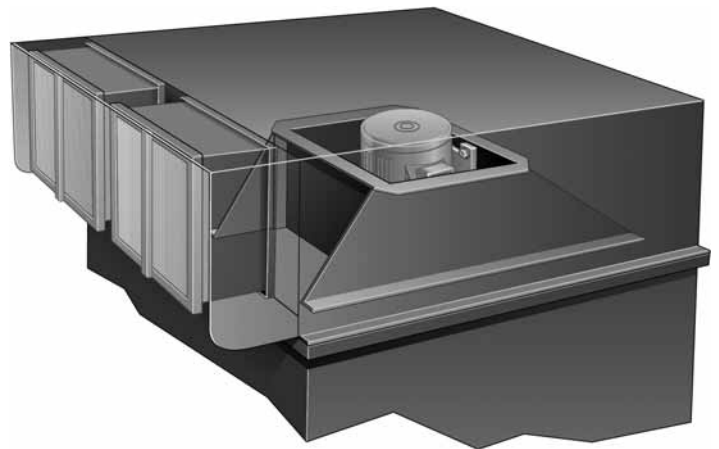
When combined with the optional integral fan and final filter, the Design M FabriPulse dust collector is a completely packaged air filtration system that allows recirculation of cleaned air.

Selection

1. Determine CFM required to capture the dust.
2. Determine static pressure of the duct system external to the collector.
3. If a final filter is selected, add 0.8 in. w.g. for the VariCel filter or 1.4 in. w.g. for the AstroCel filter to the external static pressure.
4. The fan performance curves include a pressure drop of 5 in. w.g. for dirty bag cartridge. Bag pressure drop may be more or less based on the dust loading, release characteristics, and air-to-cloth ratio.
5. The selection curves include actual fan curves, selection envelopes, and system resistance lines so you can determine actual system fan performance.



Integral Fan



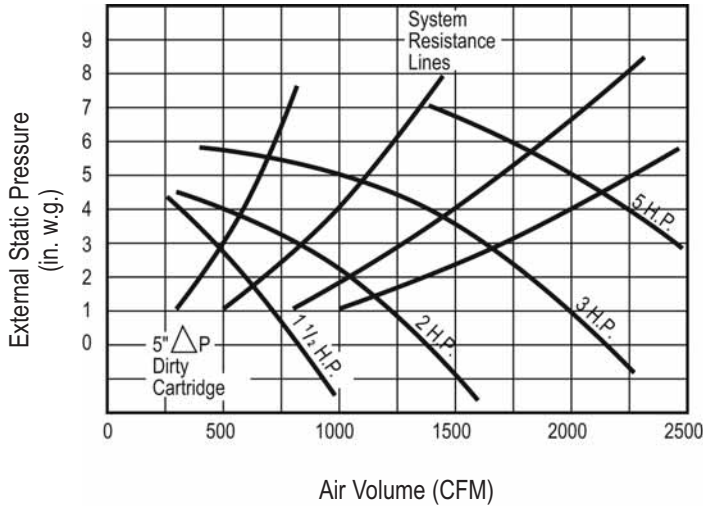
Final Filter

AmericanAirFilter[®]

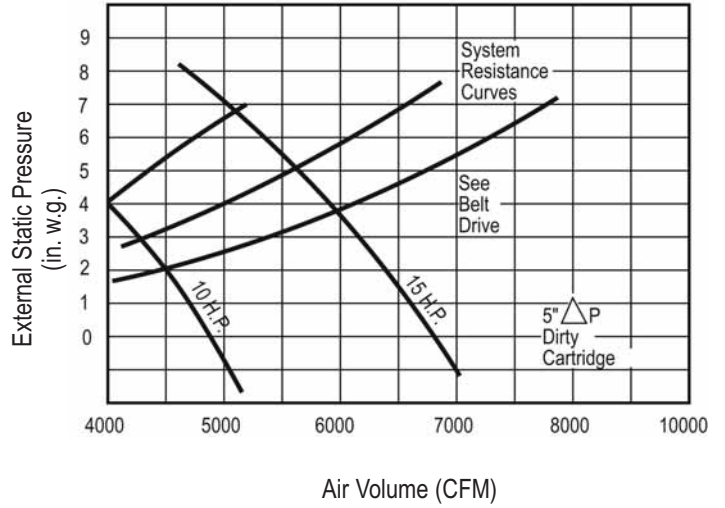
Design M FabriPulse[®]

Fan Performance

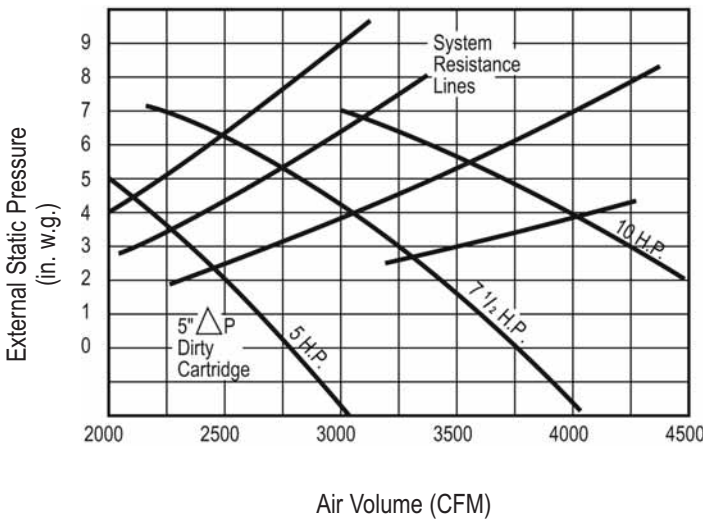
Fan Selections
Direct Drive Units 1 1/2 H.P.–5 H.P.



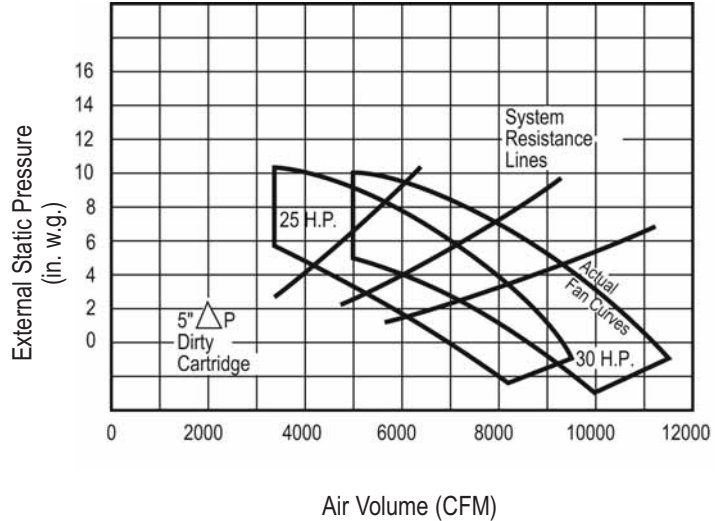
Fan Selections
Direct Drive Units 10 H.P.–15 H.P.



Fan Selections
Direct Drive Units 5 H.P.–10 H.P.



Fan Selections
Belt Drive Units



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