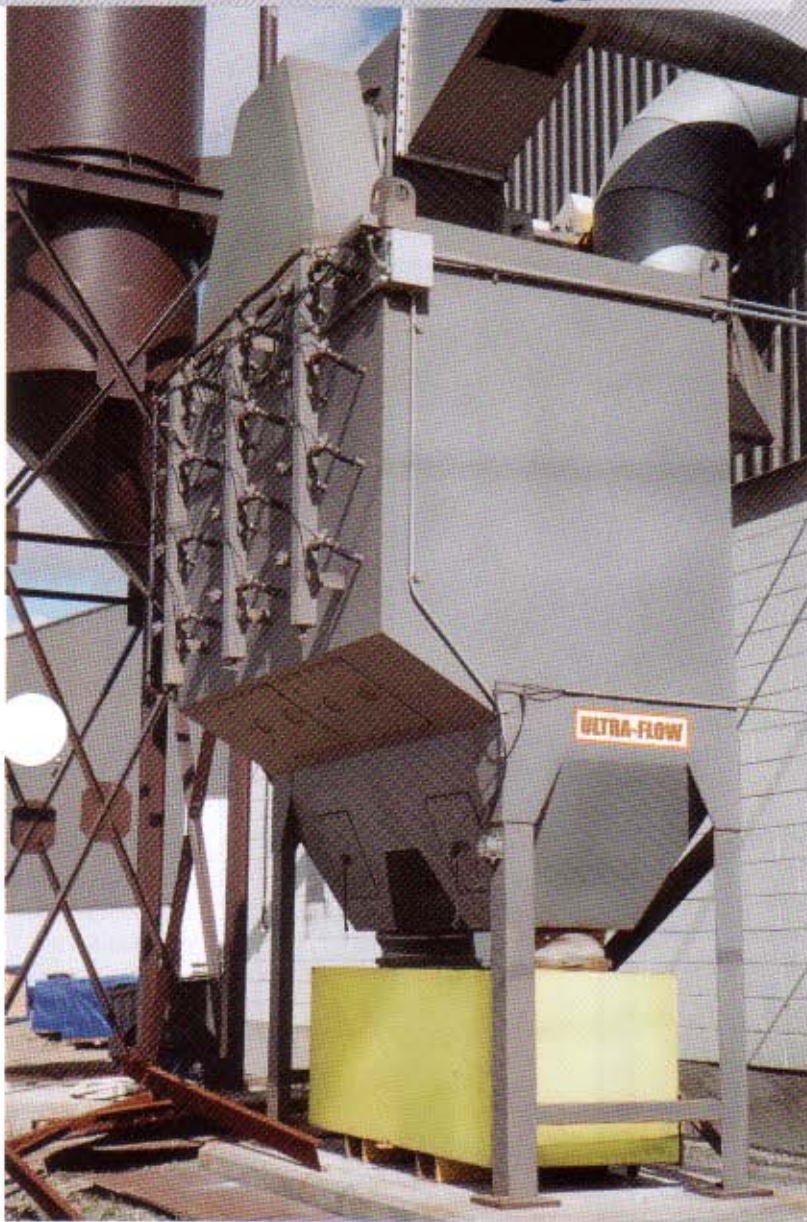


**Self-Cleaning Dust Collectors
Advanced Technology**

ULTRA-FLOW



- Increased Efficiency**

 - Revolutionary "high-ratio" design maintains more clean media, reducing the average velocity of air through the filter. Promotes a uniform and stable filtering cake on the filter media.
- Lower Initial Cost**

 - Smaller collector, less filters, less cleaning hardware, for handling an equal volume of air and contaminants as contemporary collectors.
- Lower Operating Cost**

 - The Hi-Tech operation and design of the collector reduces compressed air consumption 30-50%.
 - Filter life is increased 3-10 times over contemporary designs.
 - Lower pressure drop through the collector means lower fan/blower operating power is required.
- Smaller Footprint**

 - Uses half the filter area of contemporary collectors, therefore a smaller collector.
- Triple duty flow distributor and drop out chamber**

 - Distributes air evenly across the collector and reduces load on filters and cleaning system.
 - In most applications, eliminates the need for pre-filters or cyclones.
 - Resists effects of abrasive dust.

Performance Comparison

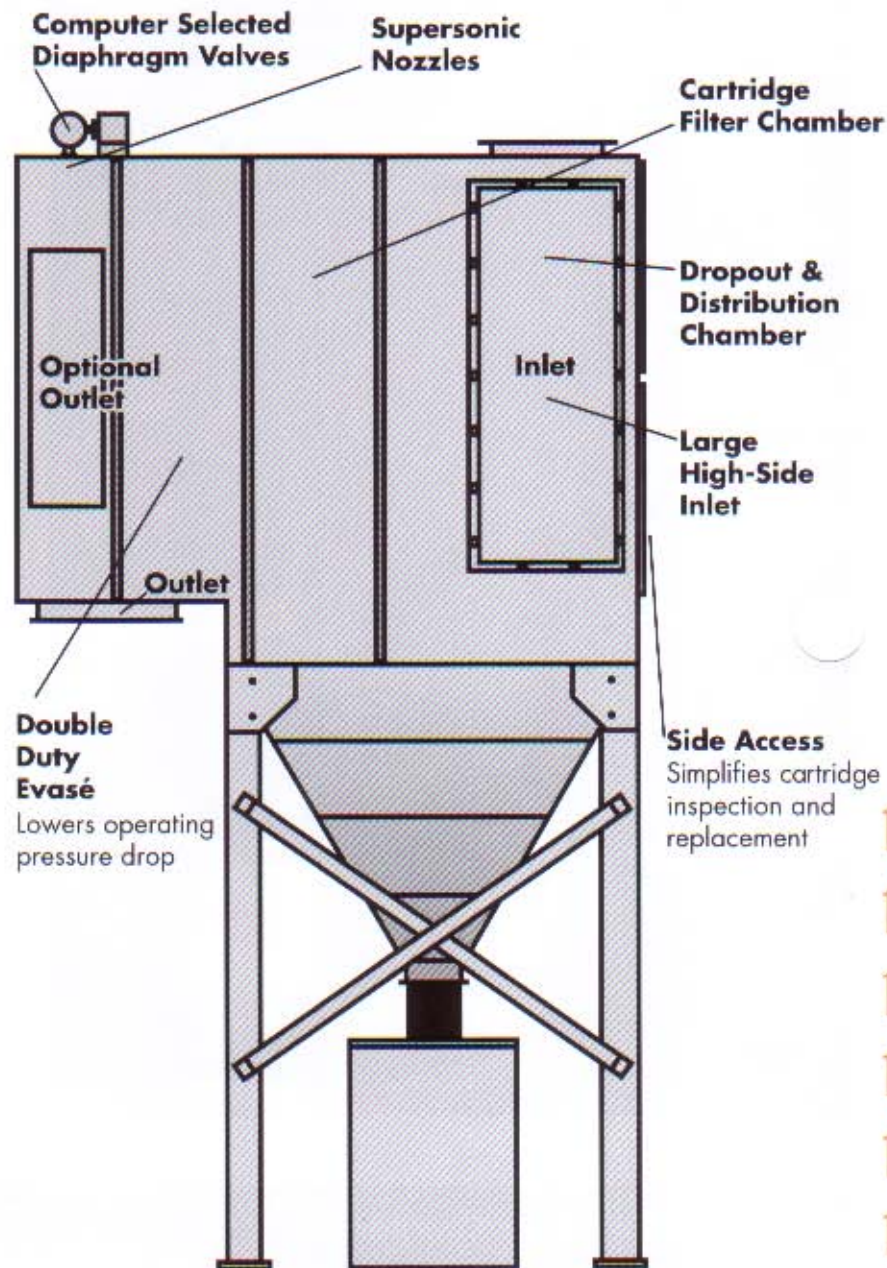
	ULTRA-FLOW	Contemporary Collector
Emissions; grains/cu.ft.	1.5 x 10 ⁻⁵	3.0 x 10 ⁻⁵
Air Volume per cartridge	1000 - 1200 CFM	300 - 450 CFM
Pressure drop - filters	1.5 - 2.5 in. wc	3 - 7 in. wc
Filter life	6 - 36 months	3 - 12 months
Initial Cost per CFM	\$2.00 - \$3.00 (\$1.50 - \$2.00 U.S.)	\$3.00 - \$4.00 (\$2.00 - \$3.00 U.S.)
Required Power - 8000 CFM	11 BHP	16 BHP
Annual Filter costs - 8000 CFM	\$800.00 - \$1000.00	\$3000.00 - \$6000.00

ULTRA-FLOW

Self-Cleaning Dust Collectors

Features that Make the Difference

The **ULTRA-FLOW** is a self-cleaning jet-pulse cartridge dust collector with dust tray or collection hoppers. It consists of a housing section and a hopper section. The contaminated air enters the inlet section of the housing from the roof or one of the two high side inlets. This eliminates "can" velocity which hangs dust up in the collector. The air then goes through an integral drop-out chamber. Most of the heavy loading dust drops directly to the hopper. The air is then forced to make a 90° turn, which drops out even more dust. This action avoids erosion in the collector from abrasive materials. The air, which is now carrying only fine dust goes through the distribution screen and enters the cartridge section evenly, where the remaining dust/fume is filtered. The clean air exits through the outlet of the collector. Cleaning of the cartridges is accomplished by periodically back flushing the cartridges with a compressed air induced jet-pulse. A computer designed accelerating nozzle assembly in front of the respective cartridges forms a perfect jet, sealing the top of the cartridges. The nozzle assembly accelerates the speed of the cleaning jet by 170% higher than possible with standard orifices in the pulse pipe. This action of kinetic energy conversion lowers air consumption by up to 40% and reduces noise. Diaphragm valves are computer selected for each application, at 125% of required flow, to ensure 100% cleaning of the cartridges. The cartridges are arranged and pulsed in vertical rows to allow dust to be expelled from the cartridges and fall into the hopper through the space between the rows. This prevents entrainment from the upper to lower cartridges. The dust falls into the hopper where it can be removed either by continuous or manual means.



ULTRA-FLOW

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QAM has a policy of continuous research and improvement, and reserves the right to change design and specifications without notice.



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