DESIGNERS, FABRICATORS AND ERECTORS OF DUST CONTROL AND PNEUMATIC CONVEYING

GRAIN SYSTEMS

AIRCON CORPORATION
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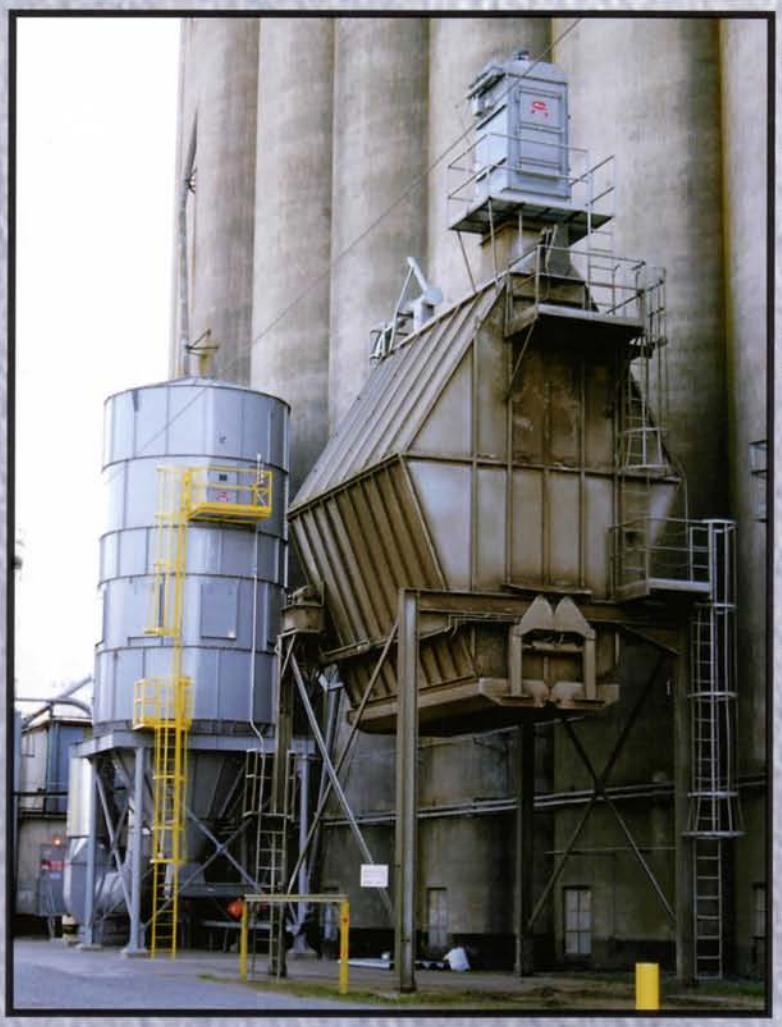
Aircon

The expanse of this country's agricultural ventures demand reliable and technically capable equipment. Aircon has found a home for their filtration products in feed mills and grain elevators in many states.

The Aircon model 12RA232-10 bolted reverse-air baghouse [above left] is used in conjunction with a live-bottom bin. Some units of this type have the added features of extra handrail around the top perimeter, like the model 14RA296-10 [above right].



The discharge from a larger 16-ft. diameter baghouse, model 16RA412-10 (facing page, upper right, lower right) is carried by a high-pressure line into a bin for truck load-out. Caught amid its installation, another 16-ft. diameter baghouse (above left) rests on a custom-made steel support far above grade.

Compressed-air baghouses also cling to their elevated status among elevator operators, often favored because they operate on a small percentage of available plant compressed air. The pair of Aircon 12'-0" diameter compressed-air round baghouses (CAR 193-10) [above] and the larger 14'-0" diameter unit on their side (CAR 276-12) [above left & above right] have no internal fan motor requirements.

A slightly shorter version of one of these 14'-0' diameter filters (CAR 276-10) seems to aspire to the height of its neighboring headhouse [below], yet it is appropriately placed with regard to accessibility.

For nuisance dust from the by-product trash tanks below, a couple of CAR 101-10 baghouses [above] were found to be the solution. The total compressed-air requirement for both will not exceed 36 SCFM at 90 to 100 PSIG.

A picture made during the installation of these dual CAR 193-10 units [above] shows them before locating overhead lights or connecting walkway grating.

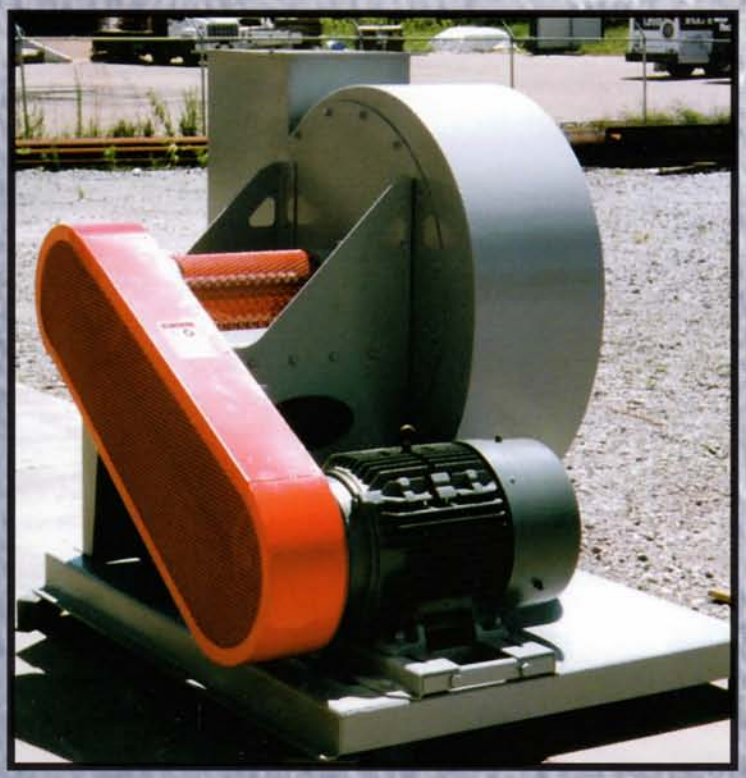
Filtration in a grain elevator ranges from a system that requires a conglomeration of six compressed-air square baghouses [below in the foreground] with almost 11,000 square feet of filter media area to a waste product bin vent [below in the background] with only 434 sq. ft. of media. Aircon also makes pressurized holding bins to customer specifications.

The grinding systems in a feed mill require smaller CAS units [below left & below right], often with screw conveyors and rotary valve (airlocks). Given a certain required filtering area, the CAS has the advantage of compactness over its cousin, the compressed-air round (CAR). On the other hand, the CAR has the advantage of a tangential inlet, which allows for some pre-filtering of the air prior to reaching the filtration bags.

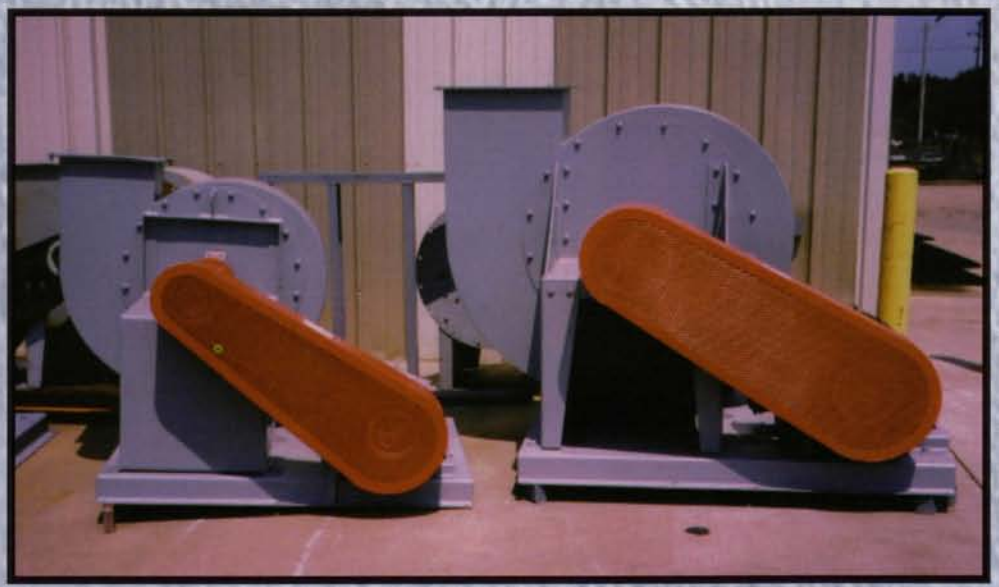
The elevator leg filter advantage [above left & above right] allows dust filtration to occur at the source, eliminating the need for hundreds of feet of ducting, scores of elbows, and a large horsepower fan required to overcome related static pressure losses.

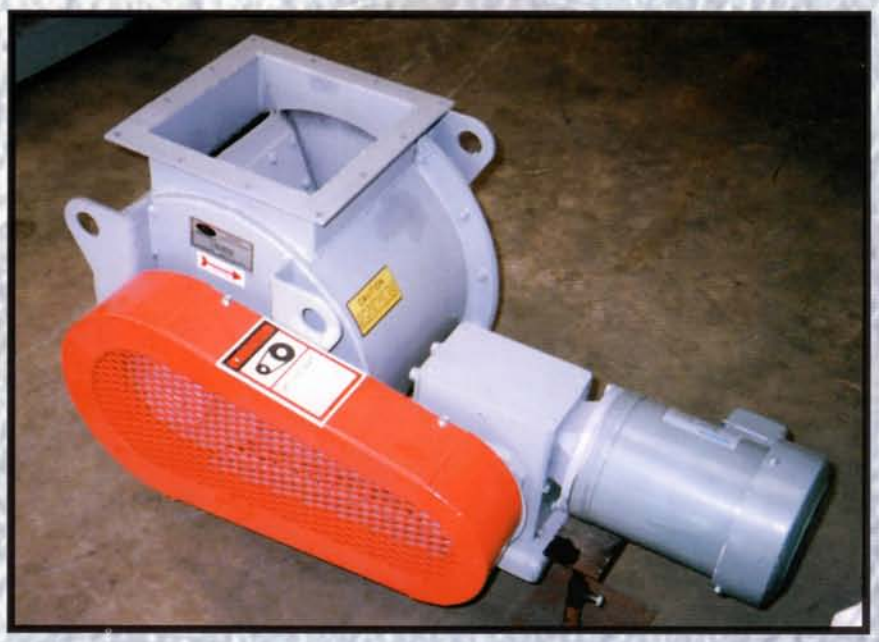
Trial by steam would not bring a guilty verdict against these stainless steel cyclones [below left & below right], designed especially for the atmospheric exhaust of a pellet cooler system.

Screw conveyors built to any size, any length. Low pressure systems operate more economically with Aircon flexible-tipped rotary valves [above], while the high-pressure system alternative requires a machined airlock [below].

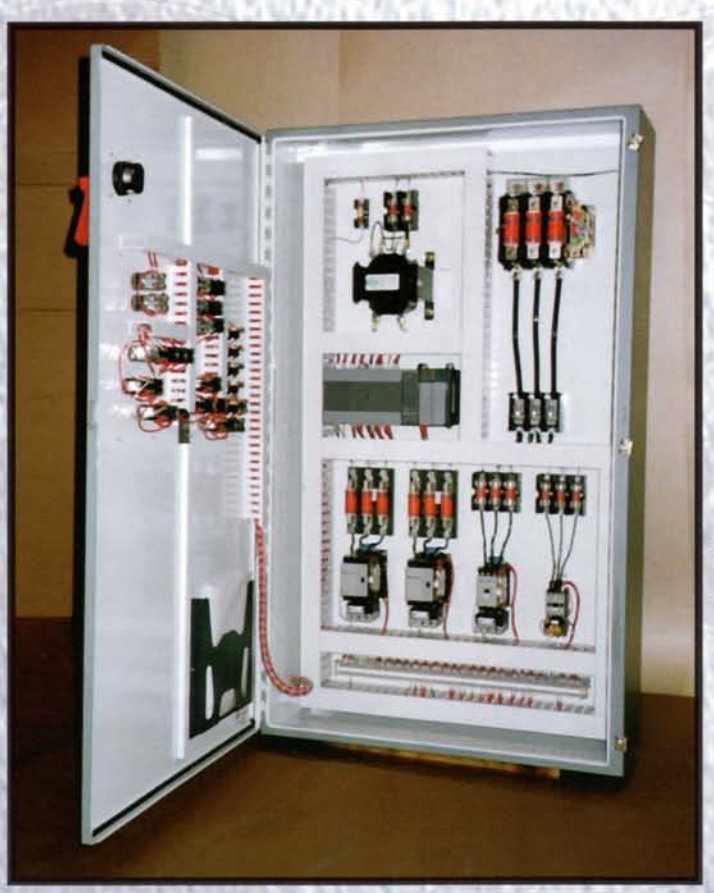


Heavy-duty (1350 to 19,000 cfm, 9" to 23" inlet diameter) radial-wheel fans can be used for a variety of applications, both on negative and positive systems.





With the extent of inlet sizes ranging from 8" through 60" accommodating any material flow rate is not an issue with Aircon valves. Standard round inlets and outlets give way to a square shape for easier screw conveyor connections.



Actually there is nothing unique about our electrical control panels. What these panels can accomplish in seconds, most maintenance personnel could perform in no more than a couple of hours just by walking up and down a few dozen ladders. However, a plant manager who demands up-to-the-minute information has no solid reason not to explore our many electrical control options.

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