

Acrison®

Dust Collectors

Models DC-100, DC-500 and DC-1000

Acrison Pulse-Jet Dust Collectors have been designed primarily for use with Acrison dry solids metering/hoppering equipment as a clean, safe and efficient means of collecting dust typically generated when product is being loaded into an Acrison supplied storage hopper, prohibiting such dust from escaping into the atmosphere. They are not designed or intended for continuous operation.

Model DC-100

The Model DC-100 Dust Collector has been specifically designed for use with Acrison Bulk Bag Unloaders to remove dust generated anytime a bulk bag is placed into the Unloader, or removed from it, and whenever a bulk bag is untied, or retied. Normally, the Model DC-100 Dust Collector is mounted onto the Bulk Bag Unloader's main structure. During the cartridge filter cleaning process, trapped dust discharges into the unloading area of the Unloader. The Model DC-100 uses a single cartridge filter.

The Model DC-100 Dust Collector may also be mounted on the cover of an Acrison-supplied storage hopper to remove dust generated during hopper loading. Trapped dust discharges into the storage hopper during the cartridge filter cleaning process.

Models DC-500 and DC-1000

The Model DC-500 and DC-1000 Dust Collectors are designed for mounting directly onto a mating (flanged) inlet located on the cover of an Acrison-supplied storage hopper to remove dust generated during hopper loading. During the cartridge filter cleaning process, trapped dust discharges into the the hopper upon which the Dust Collector is mounted.



Model DC-100



Model DC-500

Acrison®

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Model DC-1000

Operation/Design

A blower draws dust through the inlet of the Dust Collector (located on the bottom of the unit) and into its cartridge filtering system where air/dust separation occurs; only clean filtered air is discharged into the atmosphere thereby eliminating the need for any type of external venting requirements.

Upon completion of the dust collection process, a reverse blast of dry, filtered compressed air from a pulsejet system automatically cleans the cartridge filter (or filters), discharging the trapped material (dust) into the supply or storage hopper upon which the Dust Collector is mounted.

Designed for high filtration efficiency, the cartridge filters are fabricated of a specialty cloth material that allows easy release of trapped material, even when such material possesses adhesive characteristics. Dust collection efficiency is 99.99% of all dust particles as small as 0.03 microns entering the filter media.

The Model DC-100 and DC-500 Dust Collectors are equipped with a single cartridge filter, and the Model DC-1000 Dust Collector with two. The fabric filter area

for the Model DC-100 is 23 square feet, 61 square feet for the Model DC-500, and 122 square feet for the Model DC-1000.

Access to the cartridge filters is via hinged, dust-tight doors, held secure with hand-operated, quick-release captive swing bolts (all models). The Dust Collector housings are heavy gauge metal with all-welded construction.

All three model Dust Collectors have been designed with heavy-duty, directly driven, centrifugal blowers equipped with totally enclosed constant speed motors. The blower housings and fans are aluminum. The blower for the Model DC-100 is powered by a 1 horsepower motor; the Models DC-500 and DC-1000 are powered by 1.5 horsepower motors. Operating voltages are 115/230/1/60 or 230/460/3/60. Optionally, all three model Dust Collectors are available for operation in hazardous areas.

Product contact surfaces are available in mild steel and 304 and 316 stainless steel. Mild steel units are painted with Acrison's standard industrial-duty blue enamel.