

Acrison®

Dust Collector Bag Dump Stations

Model DCBDS-500-HT
Model DCBDS-1000-HT

Product Outline

Acrison's Dust Collector Bag Dump Stations provide a clean, safe, and efficient means of collecting dust generated when emptying the contents of a bag into a dry solids storage hopper or metering system. Typically, the Dust Collector Bag Dump Station mounts directly onto the top of a feeder or storage hopper furnished by Acrison.

When the loading hatch of the Bag Dump Station is opened, the Dust Collector's blower energizes producing a negative air flow through the bag loading area, drawing dust generated by the bag emptying process into a filtering system where air/dust separation occurs. Only clean air is discharged.

Then upon completion of a bag emptying sequence and the loading hatch closed, the filter media is automatically cleaned by a reverse blast of dry, filtered compressed air produced by a pulse-jet system. Trapped material (dust) discharges into the hopper upon which the Dust Collector Bag Dump Station is mounted. The Model DCBDS-500-HT utilizes a single cartridge filter, and the Model DCBDS-1000-HT utilizes two.

Filtering Parameters

Designed for high filtration efficiency, the cartridge filter used with Acrison's Dust Collector Bag Dump Stations is fabricated of a specialty cloth that easily releases the trapped material, even when possessing adhesive characteristics. Dust collection efficiency is 99.99% of all dust particles as small as 0.3 microns. For the Model DCBDS-500-HT, the fabric (cloth) filter area is 60 square feet, and 120 square feet for the Model DCBDS-1000-HT. Access to the cartridge filter(s) is via hinged, dust-tight doors held secure with hand-operated, quick release clamps.

Construction

Available in 304 and 316 stainless steel all welded construction, Acrison Dust Collector Bag Dump Stations are always supplied complete with controls. For the Model DCBDS-500-HT, a 1.5 horsepower, totally enclosed motor powers a heavy-duty, directly driven centrifugal blower. The Model DCBDS-1000-HT utilizes a 2 HP motor. The blower housing and fan are aluminum. Operating voltages are typically 230/460/3/60. Optionally, both models are available for operation in hazardous areas. Maintenance is bare minimal; longevity is exceptional.



Model DCBDS-500-HT

For dimensional information, please reference Engineering Drawing BDS-1-142 for the Model DCBDS-500-HT, and Drawing BDS-1-141 for the Model DCBDS-1000-HT.

"Visibly Different... Measurably Better"

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