

Acrison®

Dust Collector Bag Dump Stations

Models DCBDS-500 and DCBDS-1000

Acrison Models DCBDS-500 and DCBDS-1000 Dust Collector Bag Dump Stations have been designed primarily for use with Acrison dry solids metering/hoppering equipment as a clean, safe and efficient means of emptying the contents of a bag into a storage hopper without dust escaping into the atmosphere. Typically, these Dust Collector Bag Dump Stations mount directly onto the top of a supply or storage hopper furnished by Acrison.

When the loading hatch of the Bag Dump Station is opened, the Dust Collector's blower automatically energizes, producing negative air flow through the bag loading area, drawing dust generated by the bag emptying process into a cartridge filtering system where air/dust separation occurs. Only clean air is discharged into the atmosphere, thereby eliminating the need for any type of external venting requirements. Upon completion of a bag emptying sequence, and closing the loading hatch, the filter(s) are automatically cleaned by a reverse blast of dry, filtered compressed air from a pulse-jet system. Trapped material (dust) discharges into the supply or storage hopper upon which the Dust Collector Bag Dump Station is mounted.

The Model DCBDS-500 is designed with a single cartridge filter, and the Model DCBDS-1000 with two cartridge filters. The cartridges utilize a specialty fabric that allows easy release of trapped dust, even when possessing adhesive characteristics. Designed for high efficiency and longevity, the fabric filter area of a single cartridge filter is 61 square feet. Dust collection efficiency is 99.997% of all dust particles as small as 0.03 microns entering the filtering media.

The housings of both the Model DCBDS-500 and DCBDS-1000 Dust Collector Bag Dump Stations are heavy gauge steel with all-welded construction. Access to the cartridge filter(s) on both units is via hinged, dust-tight doors, held secure with quick release captive Tee-handle bolts.

A 1.5 horsepower, totally enclosed motor powers the heavy-duty, directly driven centrifugal



blower used with both the Models DCBDS-500 and DCBDS-1000 Dust Collector Bag Dump Stations; the blower housing and fan are aluminum. Operating voltages are typically 230/ 460/3/60, but other voltages can be furnished upon request. Optionally, both the Models DCBDS-500 and DCBDS-1000 are available for operation in hazardous areas.

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