

# Acrison®

## Dust Collector Bag Dump Station

### **Model DCBDS-400**

Acrison's Model DCBDS-400 Dust Collector Bag Dump Station has been designed primarily for use with Acrison's line of 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 cover of a supply or storage hopper furnished by Acrison.

When the loading hatch of the Bag Dump Station is opened and the power switch placed in the 'On' position, the Dust Collector's blower energizes, producing a negative air flow through the bag dump loading area, drawing dust generated by the bag emptying process into a bag 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. After the operator completes a bag emptying sequence, closes the loading hatch and powers-off the blower, the filter(s) are cleaned by the operator by manually engaging a bag shaker bar on the side of the Dust Collector's housing. Trapped material (dust) discharges into the supply or storage hopper upon which the Dust Collector Bag Dump Station is mounted.

The Model DCBDS-400 is designed with a single filter assembly consisting of a series of bags with a total filter area of 60 square feet and a dust collection efficiency of 99.9%. The filters are fabricated of a cotton sateen fabric that allows easy release of the trapped dust, even when using materials with adhesive characteristics.

The housing of the Model DCBDS-400 Dust Collector Bag Dump Station is heavy gauge steel with all-welded construction. Access to the filter bag assembly is via a hinged, dust tight door, held secure with quick release captivated Tee-handle bolts.

The Model DCBDS-400 utilizes a one horsepower, totally enclosed motor to power a heavy-duty, 500 cfm, directly driven centrifugal blower; the blower housing and fan are aluminum. Operating



voltages are typically 230/460/3/60, but other voltages can be furnished upon request. Optionally, the Model DCBDS-400 is 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 enamel.