

Acrison®

Dust Collectors

Model DC-100-HT

Model DC-500-HT

Model DC-1000-HT

Product Outline

Available in three different sizes and capacities, Acrison's Pulse-jet Dust Collectors have been designed primarily for use with Acrison's dry solids metering/hoppering equipment as a clean, safe and efficient means to collect dust typically generated when product is loaded into an Acrison supplied storage hopper, and to prevent the dust from escaping into the atmosphere. In particular, the Model DC-100-HT Dust Collector has been specifically designed to operate in conjunction with certain model Acrison Bulk Bag Unloaders.

A blower draws dust into the bottom inlet of the Dust Collector and into its cartridge filtering system where air/dust separation occurs. Then upon completion of the dust collection process, a reverse blast of dry, filtered compressed air produced by a pulse-jet system, automatically cleans the exterior area of the cartridge filter (or filters), releasing the trapped material back into the supply or storage hopper upon which the Dust Collector is mounted. Only clean filtered air discharges into the atmosphere eliminating the need for any type of external venting requirements.

Filtering Parameters

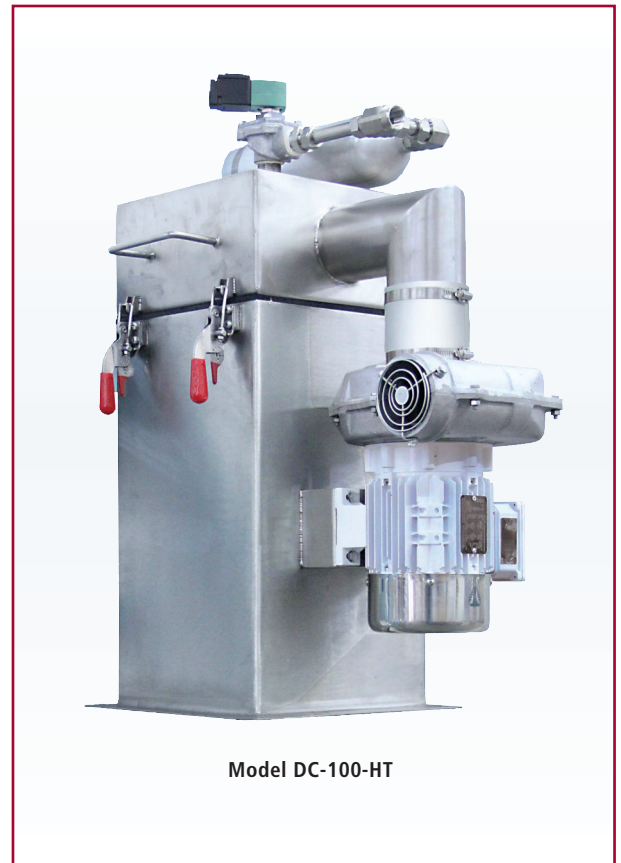
The cartridge filter is fabricated of a specialty cloth material specifically designed for high filtration efficiency and easy release of a wide range of products, including those that are adhesive. Dust collection efficiency is 99.99% of all dust particles as small as 0.3 microns.

The Models DC-100-HT and DC-500-HT Dust Collectors are equipped with a single cartridge filter; the Model DC-1000-HT is equipped with two filters. The fabric filter area for the Model DC-100-HT is 32 square feet, and 61 square feet for the Model DC-500-HT. The filter area for the Model DC-1000-HT is 122 square feet. Access to the drop-in cartridge filter(s) is made easy with a hinged plenum, held secure with quick-release clamps.

Operation of the Pulse-Jet Mechanism for cleaning the cartridge filter(s) requires dry, filtered, non-lubricated compressed air (60-70 PSIG).

Construction

Acrison's Dust Collector housings are heavy gauge all steel welded construction. They are designed with heavy-duty, directly driven, centrifugal blowers equipped with constant speed motors. The blower housings and fans are aluminum. For the Model DC-100-HT, the blower is powered by a one-half (1/2) horsepower motor, with a 1.5 horsepower motor powering the blower for the Model DC-500-HT. The blower for the Model DC-1000-HT is equipped with a 2 horsepower motor.



Model DC-100-HT

All motors are totally enclosed and fan cooled. Operating voltages are 115/230/1/60 or 230/460/3/60. Optionally, all of the aforementioned Dust Collector models are available for operation in hazardous areas.

Product contact surfaces for the Model DC-100-HT are available in 304 and 316 stainless steel. For the Models DC-500-HT and DC-1000-HT, product contact surfaces are available in Mild steel, 304 and 316 stainless steel. Mild steel units are painted with Acrison's industrial-duty blue enamel.

For dimensional information, please reference Engineering Drawing DC-1-38 for the Model DC-100-HT, Drawing DC-1-39 for the Model DC-500-HT, and Drawing DC-1-40 for the Model DC-1000-HT.

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Model DC-100-HT Dust Collector mounted on a Model 810 Bulk Bag Unloader Structure with an integral Model W-105Z Volumetric Feeder.

"Visibly Different... Measurably Better"

Acriston[®], Inc.

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