Acrison®

BIN VENT FILTERS

Models BV-60, BV-100, BV-500 and BV-1000

Model BV-60

Bin Vent Filters

Available in four sizes and capacities, Acrison Bin Vent Filters have been designed primarily for use with Acrison's various model "Weight-Loss-Differential" Weigh Feeders to permit air to both enter and escape from within the feeder's integral supply hopper during operation. However, Acrison Bin Vent Filters may also be utilized with any storage hopper supplied by Acrison to allow air to exit and enter as the product level changes.

When installed, a Bin Vent Filter will prohibit either a positive or negative pressure from occurring within the hopper to which it attaches or connects, and in particular, within the hopper of an Acrison "Weight-Loss-Differential" Weigh Feeder during refill. In most applications, the Bin Vent Filter mounts directly on the cover of an Acrison supplied bin (or hopper), although it can also be mounted directly adjacent to a hopper.

The bottom of the Bin Vent Filter is open, allowing air to unidirectionally pass through its cartridge filter element (or elements). It does not utilize a blower to exhaust air. During refill of a hopper, the displaced air (often dust-laden) enters the Bin Vent Filter, passing through its filter(s) where dust/air separation occurs. Dust particulate is trapped on the outside surface of the filter media, allowing only clean air to pass through and into the atmosphere.

The filter media (cartridge) of the Bin Vent filter is periodically and automatically cleaned by a reverse blast of dry, filtered, compressed air. When operating in conjuction with an Acrison "Weight-Loss-Differential" Weigh Feeder, the filter media is automatically cleaned during the latter part of each hopper refill cycle. For all other applications, the controls furnished with the Bin Vent filter include an adjustable timer that periodically and automatically provides the operational sequence for cleaning the filter media.

The cartridge filter is fabricated of a cloth material, specifically intended for easy release of even the most adhesive products; it is capable of trapping particles down to sub-micron in size.

When the filter media (cartridge) of the Bin Vent filter is cleaned, trapped dust discharges out of the bottom of the unit. Thus, if a Bin Vent filter is mounted onto the cover of a hopper, which is the typical mounting arrangement, trapped dust then returns directly into the hopper. Alternately, when a Bin Vent Filter is mounted adjacent to a bin (or hopper), it is furnished with a small collection hopper equipped with a manually operated slide-gate valve to permit easy clean-out of trapped material. In such installations, the hopper's vent opening is connected to the inlet of the Bin Vent Filter, usually with flexible tubing.

Acrison Bin Vent Filters have been designed with simplicity in mind. There are no moving parts, and along with their rugged, heavy-duty construction, they will provide longevity of service with negligible maintenance. The selection of the proper size unit is dependent upon the actual hopper volume and refill parameters.

Bin Vent Filters require a 115/1/60 power supply and compressed air (60-70 PSIG) for operation. As standard, they are available in mild steel, 304 and 316 stainless steel construction (product contact surfaces). The Models BV-60, BV-100 and BV-500 are designed with a single filter cartridge having a cloth area of 15, 26 and 36 square feet respectively. The Model BV-1000 is equipped with two filter cartridges having a total cloth area of 72 square feet.

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Model BV-100

Model BV-500

Model BV-1000

Industrial and municipal chemical feed equipment

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