

# Acrison®

## Bin Vent Filters

**Model BV-60-HT**

**Model BV-100-HT**

**Model BV-500-HT**

**Model BV-1000-HT**

### Product Outline

*Available in four sizes and capacities, Acrison Bin Vent Filters have been designed for use with the supply hoppers associated with Acrison metering equipment to prohibit either positive or negative pressure from occurring within the hoppers to which they attach during normal operation. In particular, Bin Vent Filters are commonly furnished with the integral hoppers of Acrison's various model 'Weight-Loss' Weigh Feeders.*

The selection of the proper size Bin Vent Filter is dependent on the volume of the hopper upon which it will be used in conjunction with refill parameters. In most applications, a Bin Vent Filter mounts directly on the cover of an Acrison 'Weight-Loss' Weigh Feeder or on the cover of a storage hopper supplied by Acrison. However, a Bin Vent Filter may also be mounted directly above or adjacent to a hopper.

The outlet of the Bin Vent Filter is open, allowing air to unidirectionally pass through its cartridge filter(s) as process conditions dictate. 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 cartridge(s), allowing only clean air to pass through.

### Filtering Parameters

The filter media (cartridge or cartridges) is periodically and automatically cleaned by a reverse blast of dry, filtered compressed air. When operating in conjunction with an Acrison 'Weight-Loss' Weigh Feeder, the filter media is automatically cleaned at the end of each hopper refill cycle. For all other applications, the controls furnished with Bin Vent Filters include adjustable timers that periodically and automatically provide the operational timing sequence for cleaning the filter media.

The cartridge filters are fabricated of a cloth material specifically intended to easily release a wide range of products, even those that are adhesive. Dust collection efficiency is 99.99% of all dust particles as small as 0.3 microns.

The Models BV-60-HT, BV-100-HT and BV-500-HT are designed with a single filter cartridge having a cloth area of 15, 26 and 36 square feet respectively. The Model BV-1000-HT is equipped with two filter cartridges having a total cloth area of 72 square feet. Hinged and clamped plenum covers allow easy access to the filter cartridge(s) when replacement is re-quired. For applications where static is a concern, Acrison offers a grounded, static dissipating filter cartridge.



Model BV-60-HT

If a given installation doesn't allow mounting a Bin Vent Filter on the cover of an Acrison 'Weight-Loss' Weigh Feeder, or onto the cover of a storage hopper supplied by Acrison, it can be mounted adjacent to the hopper, independently supported. In such applications, the hopper's vent is connected to the inlet of the Bin Vent Filter, usually with flexible tubing. The outlet of the Bin Vent Filter is supplied with a small collection hopper equipped with a manually operated slide-gate valve to permit easy clean-out of trapped material.

Bin Vent Filters typically require 115/1/60 power and 60 – 70 PSIG dry, filtered, compressed air. As standard, they are available in 304 and 316 stainless steel construction (product contact parts). The selection of the proper size unit is dependent upon the actual hopper volume and refill parameters.

# Bin Vent Filters

## Construction

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 many years of trouble-free service.

For dimensional information, please reference Engineering Drawing BV-1-270 for the Model BV-60-HT; Drawing BV-1-294 for the Model BV-100-HT; Drawing BV-1-295 for the Model BV- 500-HT, and Drawing BV-1-296 for the Model BV-1000-HT.



*"Visibly Different... Measurably Better"*

**Acrison<sup>®</sup>, Inc.**

20 Empire Blvd., Moonachie, New Jersey 07074 • Phone: 201-440-8300 • Fax: 201-440-4939  
Email: [informail@acrison.com](mailto:informail@acrison.com) • Website: [www.acrison.com](http://www.acrison.com)