

## Pharmaceutical Processing



Dust collectors used in pharmaceutical processing often require modifications including ledge-free design, stainless-steel finish and wash-down capabilities.

Special consideration must be taken when choosing an air cleaning system for pharmaceutical processing. Fine dusts and powders emitted during production can pose a threat to the respiratory health of employees and jeopardize the purity of end-products—especially when the dusts are sub-micron in size.

The DustHog® SFC downward flow cartridge dust collectors are the ideal solution for emissions given off during pharmaceutical formulation processes. In addition to powder reclamation, our systems provide cleaner air, longer filter life, easy maintenance and overall cost savings. The SFC is available in a variety of sizes, and can be used full-time or for various batch operations.



DustHog SFC 48-4 used for dietary supplement blending, compression and tableting.



DustHog SFC 16-4 used for blending nutritional powders.

- Blending
- Coating
- Cross-contamination
- Drying
- Granulating
- Mixing
- Packaging
- Polishing
- Product recovery
- Sorting
- Tablet pressing

## Pharmaceutical Processing

### DustHog SFC Collectors— Less Energy Usage

The DustHog SFC uses an obstruction-free, horizontal filter arrangement with our patented pulse cleaning mechanism to effectively clean the cartridge filters. At any point along the cartridge, the SFC provides 25% or more pulse cleaning power than other similar sized systems. As a result, fewer pulses are needed, and less compressed air is used—a significant savings over the life of the unit.

### Protura® Nanofiber Cartridges Cost Less Long Term

The cartridge filters feature a special surface nanofiber layer made from synthetic polymers so extremely fine, they are measured in fractions of a micron (nanometers). This ultra-thin layer traps dust on the surface of the filter before it can embed deeper in the media—leading to better cleaning efficiency with fewer pulses and significantly less compressed air use. As a result, customers benefit from several advantages, including:

- MERV 15 filtration efficiency ensures capture of submicron particles and reduction of dust collector emissions for cleaner and safer workplace air
- Lower energy costs with reduction in compressed air from fewer pulses and filter pressure drop
- Nanofiber technology means superior surface loading to enhance dust cake release and longer filter life
- Protura nanofiber cartridges last up to twice as long as standard commodity filters

Parker Hannifin also offers a variety of media options to address challenging applications such as processing sugars, candies and other confections. These types of sticky ingredients tend to absorb moisture and require specialized cartridge filters.



Protura® Nanofiber Filter

- Bag in/bag out filter change
- Bin level indicators
- Clean in place (CIP)/wash
- Down capability
- Explosion vents

- HEPA safety after-filter
- Ledge-free design
- Polished finish
- Stainless steel 304 & 316
- Fire/explosion suppression system



Explosion Vent



Bag In/Bag Out Filter Change



Safety After-filter