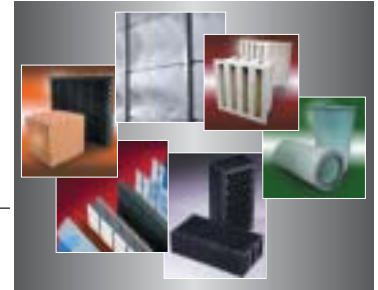




## Inertial Separators



### Operation:

The Pneumafil inertial separator is a high efficiency, low pressure drop, one-piece molded polypropylene air cleaner. Each unit contains 54 small tubes with stationary air spinners that impart a high radial velocity to the air at the inlet face. The resulting centrifugal force causes the dirt particles to move to an annular space from which they are removed by the flow of bleed air which is generally 10% of the total dirty airflow. The clean air is withdrawn through the center of the inner tubes out the exiting air face while the dirty bleed air is exhausted out the end of the filter element through bleed ducts.

Multiple elements can be used in banks with bleed air ducts connected to a common bleed air exhaust duct.

### Application:

Inertial separators are used in applications where there is extremely heavy dust concentrations in the inlet air. They are self cleaning and do not increase in pressure drop over time. They can be applied where temperatures range from  $-40^{\circ}\text{F}$  to  $+200^{\circ}\text{F}$ . Polypropylene offers excellent resistance to corrosion, abrasion, and



UV treatment guards against deterioration to exposure to sunlight.

Inertial separators can be used in front of medium and high efficiency final filters when high efficiency on small particles is required.

### Ordering:

**Part Number:** S50015-B2

**Size:** 9-5/8" x 18-7/16" x 5-1/2"