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Pulse-Jet Filters



Provides automatic material-from-air separation

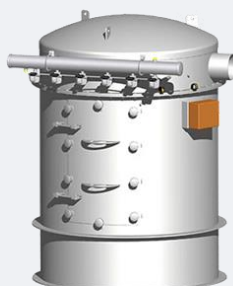
Pulse-Jet Filters provide automatic material-from-air separation. Airborne particles are separated by the filter media. Then sequenced, compressed-air pulses clean the filters, dropping the once airborne material into the hopper or silo.

Efficient performance of the filter is achieved through the proper selection of filter media and the correct sizing. Only the right combination of air-to-cloth ratio and gas velocity assure optimized life-cycle of the filter. Coperion & Coperion K-Tron's experts are highly trained and can help you determine the correct model of pulse-jet filter for your specific application.

AVAILABLE MODELS

FILTER RECEIVER

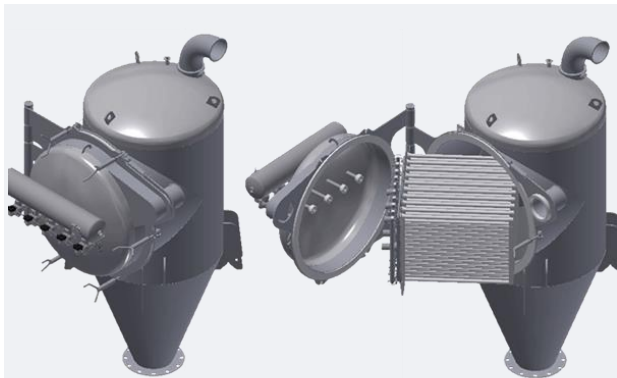
Coperion K-Tron Filter Receiver



The Coperion K-Tron Filter Receiver provides automatic material-from-air separation. The tangential inlet, located in the receiver's circular hopper, provides a cyclonic separation of the material/air stream. Airborne material is trapped by the filter bags. Timed, compressed-air pulses clean the filter bags, dropping the once airborne material into the hopper. The filter bags are protected from the material mainstream by a deflector shield. Efficient performance of the filter receiver is achieved through the proper selection of filter media and the correct air-to-cloth ratio.

Filter receivers are available with single or double access doors. Larger filter receivers have two access doors located 180° apart to provide easy access to all filter bags.

- **SANITARY FILTER RECEIVER (SFR)**



Coperion K-Tron Sanitary Filter Receiver for food

applications

The Sanitary Filter Receiver provides optimal material-from-air-separation in the most stringent food applications requiring quick clean-out and elimination of cross contaminants.

The unique top material entry design on the receiver reduces can velocity concerns. Material entering the SFR is filtered by a cleanable, spunbond substrate polyester with an ePTFE membrane which is FDA approved. The filters are cleaned and easily changed via a tool-less, removable blow-back assembly. The SFR is accessed and easily cleaned through a side entry access door, which can be opened without tools (non-CE version) and is integrated on a single hinge with the filter tube sheet.

- **SIDE ACCESS FILTER RECEIVER (SAFR)**



Coperion K-Tron Side Access Filter Receiver with no-

tool access door

The Side Access Filter Receiver provides material-from-air-separation in vacuum or pressure conveying of products in pellet, granular and powder form. It is often used when side access to filters is important for allowing maintenance personnel to replace the filters without having to enter the product area and height restrictions do not allow the use of top load filters.

The air pulse cleaning of the filter elements is regulated by the timer control panel. The timer controls the remote pilot valves and allows easy adjustment of the frequency and duration of each pulse.

- FB, FV PULSE-JET FILTERS**

Coperion FB bin vent filter



Coperion FB and FV filters are process, bin vent or silo filters with pulse-jet cleaning system for high concentrations of dust. They are most commonly used in the plastics, general chemical, minerals and food industries.

- Separation of bulk material from the conveying gas at the end of a pneumatic conveying system
- Compact design united with large filter areas up to 1000 m²

- TOTAL SEPARATORS & SPECIAL FILTERS FR, FC**

Coperion FR total separator

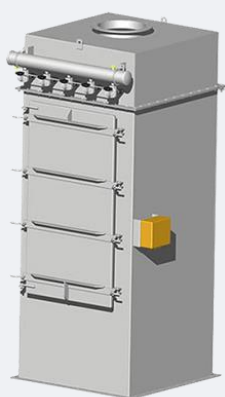


Filter unit with pulse-jet cleaning system for installation as process filter, total separator or aspiration filter. Also available in individual design for high pressure (e.g. 30 bar(g) [435 psi (g)]), high temperature (e.g. 450 deg C [842 deg F]) with heating/cooling and with explosion protection devices.

- Separating solids from a conveying gas in downstream processes, at the end of conveying lines or within a process line

- Maximum flexibility for various applications and operating conditions with filter areas up to 1000 m²

- **AUTOMATIC BIN VENT**



Coperion K-Tron automatic bin vent filters exhaust air

from a tank

Mounted atop a storage tank, the Automatic Bin Vent filters the exhaust air and literally allows the tank to breathe.

When material is conveyed to the storage tank, the increased volume within the tank reduces the air stream velocity, the material drops, and the excess air is vented through the filter. During the venting process, airborne dust particles are trapped by the filter bags.

Sequentially timed bursts of compressed air controlled by solenoid valves, pulse the bags and dislodge the dust particles. All of the product remains in the storage tank and clean air exhausts through the tank vent into the atmosphere.

- **MODULAR CARTRIDGE BIN VENT**



Coperion K-Tron Modular Cartridge Bin Vent

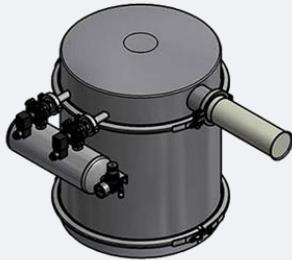
The Modular Cartridge Bin Vent provides excellent air filtration at a low cost. Its modular design and low overall height make it easy to install and allows the operator to perform maintenance from the tank deck.

While material is pneumatically conveyed into the storage tank, fine airborne particles are trapped by the unit's large cartridge filter. This enables clean air to pass from the tank into the atmosphere.

The modular cartridge bin vent is available as a static unit or with pulse-clean control.

- **P-SERIES PULSE JET VENT FILTER**

Coperion K-Tron P-Series Pulse Jet Vent Filters for

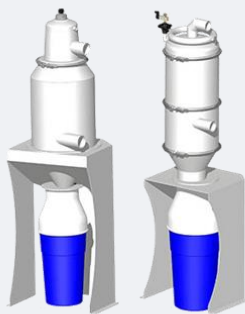


hygienic applications

For hygienic applications that require a high amount of sanitary design. P-Series Pulse Jet Vent Filters are most commonly used for venting in loss-in-weight feeding applications. Their sanitary design is perfect for the food and pharmaceutical industries.

- **2400 SERIES PULSE-CLEAN IN-LINE FILTER**

Coperion K-Tron Series 2400 Pulse-Clean In-Line



Secondary Filter for more demanding filter situations

For more demanding filtering situations, the Series 2400 pulse-clean in-line secondary filter can be used where frequent manual cleaning of the modular unit would not be practical. Its filter bags are automatically pulse-cleaned during periods when the system is not conveying.

The unit is shown with the optional fines collection kit that fits beneath the filter. It collects the fines trapped by the filtration system to help keep the process area clean.

The pulse-clean in-line filters are also available as assemblies including pulse-clean in-line filter with mounting plate, fines collection kit (includes flex sock adapter, clamp, filter sock and drum with clamp), 6 m [20 ft] of flexible hose, carbon steel support stand and hardware. The assembly is available for 50, 76 and 100 m [2, 3 and 4 in] line sizes.

MINI PULSE-CLEAN VENT FILTER

Coperion K-Tron mini filters for use on loss-in-weight



feeder hoppers and Aerolock™ surge hoppers

Each unit has one small filter bag or cartridge filter element which is automatically pulse-cleaned with a burst of compressed air. These filters are made to fit the Loss-in-Weight feeder hoppers and Aerolock™ surge hoppers. Similarly, this product fits the need for a small, reliable automatic vent filter and can remain in use for long periods of time without the blinding or maintenance of a static vent sock. A pulse timer or central controller can be used to send the pulse signal.

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