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# Filter Receiver



## Standard Features

### Options

- Carbon steel construction, outside surfaces painted RAL7035 gray.
- Cleaning timer control, IP66 【NEMA4X】 enclosure, VDC operation.
- 454g polyester bags (includes cages) or 100% spun bond polyester cartridge filters
- Pressure differential indicator
- No-tool access door
- ATEX 3GD

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## Application

Colormax Systems Filter Receiver provides automatic material-from-air separation. The tangential inlet located in the receiver's circular hopper provides a cyclonic stream. Remaining airborne material is trapped by the filter element. Sequentially timed bursts of compressed air, controlled by solenoid valves, pulse the bags or cartridges and dislodge the dust particles to clean the filters. The filter element is 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, along with can velocity considerations.

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## Design

Standard material of construction is carbon steel with enamel coating. The unit's filter element is cleaned by reverse jet cleaning from a compressed air accumulator. The air is directed through venturis, inducing a greater volume of air to clean the filter element for more complete dust particle dislodging. Only a single row of the filter element is pulsed at a time, leaving the remaining filter elements on-line. The interval between pulsing is adjustable to ensure optimal filter element cleaning. The receiver's filter element is easily accessed for service through the quick access door. The access door is designed with a curved profile to minimize internal ledges. The air pulse cleaning of the filter element is regulated by the timer control panel. The timer allows easy adjustment of the frequency and duration of each pulse and a display shows which element row is currently being cleaned. All solenoids for pulse cleaning are located in the panel. Each receiver is equipped with a pressure differential indicator. The gauge measures the difference in pressure between the filter element housing and clean air plenum, informing the effectiveness of the filter cleaning system.

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