

# Cleanable Side Entry Receiver (CSER)

- Low headroom applications
- Requires less plant space
- Side entry and tool-free cartridge removal speeds maintenance with no confined space entry
- Loose parts minimized with captured fasteners
- Single point access to both clean and dirty volumes of the filter
- Simple design with minimal internal structure enables thorough clean-down



## Application

The CSER filter is designed to meet challenging requirements for sanitation and inspection in the food, pet food and chemical industries. A horizontal cartridge filter, CSER is ideally suited for low headroom applications under pressure or vacuum and is primarily used as a filter receiver at the end of a pneumatic conveying system to separate the product being conveyed from the convey air. Well suited for a variety of indoor locations, the CSER has a small footprint requirement and can be easily explosion vented through the roof or from the side.

## Equipment

The compressed purge air delivery system, including the header, diaphragms, and purge pipes, is located in the hinged plenum door, delivering media cartridge access without having to remove purge pipes. Less complicated than competitive products, the hinged tubesheet provides a single point of access to the baghouse section through the clean air plenum; eliminating additional platform or mezzanine access requirements.

The CSER utilizes clean design concepts, minimizing horizontal surfaces where product or water might collect. The tubesheet design incorporates a machined insert which provides a flush internal surface and a rigid surface to seal the filter elements.

The exclusive Schenck Process design allows for complete disassembly simplifying sanitation processes. Only the welded stud requires in-place cleaning.

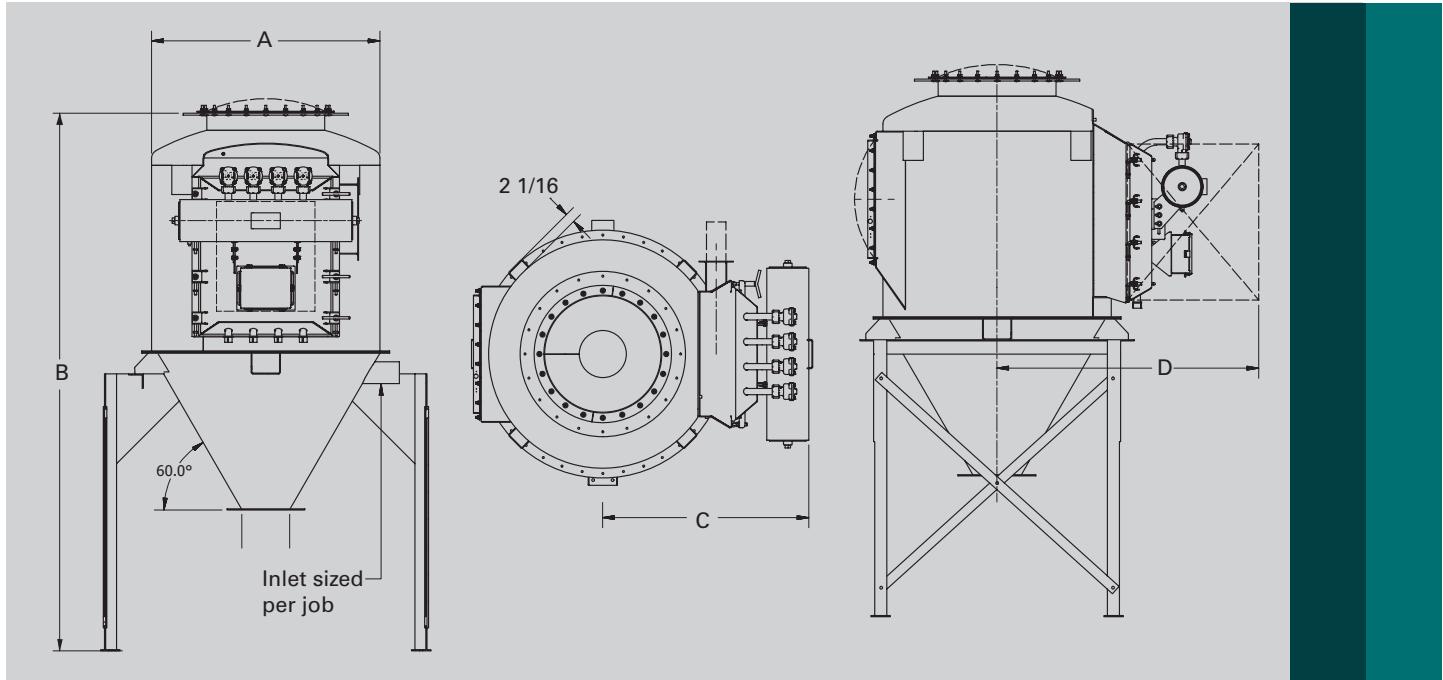
The CSER cartridge support system includes a single pipe welded at each end to the sidewall, which significantly reduces the weld and simplifies the cleaning process by minimizing internal structure. Loose parts are kept to a minimum during changeouts with only removal of the one-piece venturi/hold-down required for access to the media. The sanitary envelope-styled cartridge minimizes product retention on the media. Wide pleat arrangement allows for high air-to-cloth ratios up to 5:1.

## Operating principle

An air pulse cleaning system periodically releases a pulse of compressed air directed through the cartridge, cleaning it and dislodging filtered material so it drops into the hopper below.

The cleaning pulse can be controlled by an optional photohelic differential pressure switch which responds to pressure difference across the tubesheet. When controlled by the switch, cleaning occurs only when needed, decreasing air consumption and increasing cartridge life by avoiding unnecessary pulsing.

# Cleanable Side Entry Receiver (CSER) Dimensions



| Model    | Cloth Area<br>(Sq. ft.) | Number of<br>Carts | A  | Dimensions (inches) |                 |          |         |
|----------|-------------------------|--------------------|----|---------------------|-----------------|----------|---------|
|          |                         |                    |    | B<br>Std            | B<br>Top X-Vent | C        | D       |
| 24CSER2  | 58.8                    | 2                  | 28 | 89-1/8              | --              | 34-9/16  | 39-1/4  |
| 24CSER3  | 88.2                    | 3                  | 36 | 97-7/16             | 99-7/16         | 35-1/2   | 49-3/8  |
| 24CSER4  | 117.6                   | 4                  | 36 | 97-7/16             | 99-7/16         | 35-1/2   | 49-3/8  |
| 39CSER4  | 200.4                   | 4                  | 47 | 108-11/16           | 110-5/8         | 42-3/8   | 60-5/8  |
| 39CSER5  | 250.5                   | 5                  | 54 | 115-3/8             | 117-1/2         | 44-11/16 | 65-1/2  |
| 39CSER6  | 300.6                   | 6                  | 60 | 121-15/16           | 124-3/16        | 46-11/16 | 80      |
| 39CSER8  | 400.8                   | 8                  | 47 | 129-5/16            | 131-1/4         | 45-9/16  | 60-1/2  |
| 39CSER10 | 501                     | 10                 | 54 | 136                 | 138-1/8         | 48-1/16  | 65-9/16 |
| 39CSER12 | 601.2                   | 12                 | 60 | 142-9/16            | 144-13/16       | 49-7/8   | 70-3/4  |