

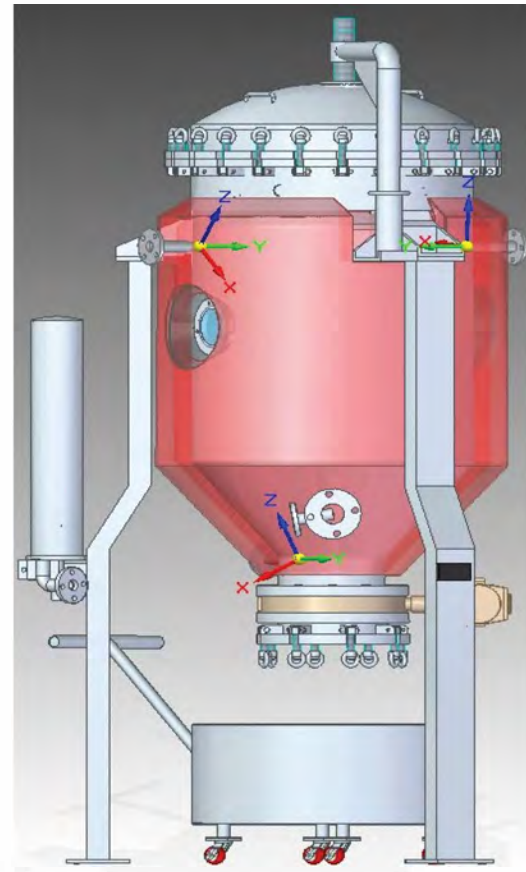
Multi-Tube Candle Filters

Schematic Engineering Industries is part of the Standard Group of Companies and manufacturers of Multi-Tube Candle Filters.

Our Candle Filters comprise of a group of columnar filter elements sealed within a pressure vessel to produce a cake with dry solids contents as high as 80% and filtrate of extremely high clarity. Our customisable designs provide for thin-cake pressure filtration, cake washing, drying, re-slurry and automatic discharge as well as heel filtration. They are typically installed for clarification and recovery applications from liquids with low solids content from 5% to less than 1% solids and even down to trace amounts.

The Schematic candle filters are a safer solution than traditional leaf filters as the carbon in a leaf filter has to be removed manually with each operation. As carbon is a pyro-hazardous material it poses a significant risk to operators involved in filtering and cleaning equipment. Our multi-tube carbon filter design provides automatic discharge, whereby the carbon is directly discharged into a container without any manual human contact.

As filtrate is pumped into filter, mother liquor is sent to ML tank and solids are collected on filter candle(s). By reverse flush method, wet cake is discharged and collected into a container positioned below the filter. As filtration is completely contained, candle filters are ideal for processing solvents, concentrated acids and other toxic products



Technical Specification

- Sizes: 2 – 100 kg / 0.2 – 50 sqm
- Porosity: 5 micron, 10 micron, 20 micron
- Filter Material: SS 316, Sintered Carbon, PP/PE cloth
- Optional features: SS 304, SS 316, Hastelloy, HALAR, Stanglass, PTFE coating

Applications

- Separation of Catalysts such as Nickel, Platinum, Palladium etc.
- Separation of Activated or Charcoal carbon at API plants
- Colour removal in Veg oil
- Resin filtration
- Seaweed processing

Fluid Filtration



multi-tube candle filters

Design Features

- Customizable candle size
- Zero discharge filter
- Reverse flush method
- Closed process
- Sintered Carbon or Cloth Candles

Operational Benefits

- No heel material left behind
- Zero dead volume
- Carbon discharged directly into tray
- No Spill-over and faster operation
- Safer working with limited manual input
- Cleaner environment