

Engineering Today For A Greener Tomorrow



CONTUFILT - M

CONTINUOUS TUBULAR FILTER

ABOUT DIVA ENVITEC PVT LTD

Diva Envitec Pvt Ltd was founded by Lalit Vashista B.E (Chemical) an entrepreneur and innovator who has brought in many new technologies or process changes in the process industry. His out-of-the-box thinking has helped many companies develop newer cost effective ways to perform activities.

Located in Mumbai, India, Diva Envitec Pvt. Ltd. is a process engineering company, with a rich and varied experience in design, development and implementation of viable filtration and separation solutions. Having gained enormous expertise in providing innovative solutions in filtration and treatment over the years.

Since the last three decades, we have provided extensive support to the pharmaceutical, biotechnology, beverage, chemical and fine chemical, sugar, fertilisers and food industries in filtration, water treatment and waste water management. The company is reputed for specific technical and process evaluation as well as achieving integration with advanced and newer technologies.



LALIT VASHISHTA

CEO & MANAGING DIRECTOR

DIVA ENVITEC





ABOUT THE TECHNOLOGY

Contufilt -M outside-in filtration for polishing and removing solids from slurries. The systems are back washable and easy to use and maintain. The mechanism uses cake filtration or absolute mesh opening to remove the particulate from fluid streams.

The filtration, Drying, and backwashing operations happen in the same system without having the need of opening the system, reducing manual labour

Contufilt - M is the new innovative design to replace Filter press in the Industry.

"CONTUFILT-M has given huge cost savings to end users and delivers and performs consistently"

- Closed system: Helps reduce operator exposure to hazardous materials
- Accessibility: Easy access to elements from top
- Compact Design: Element bundle is removable as an assembly
- Coded Vessels: Filter areas up to 200 m², withstands differential pressure as high as 10-15 Kg/cm². Designed generally in accordance with ASME section VIII.



OPERATION

Contufilt – Membrane system consists of a number of equally sized pressure vessels each containing membrane metal filter elements arranged on a tube sheet or headers. The vessel performs the specific functions of filtration, in-situ reverse flow, gas assisted discharge of collected catalyst and when required, an in-situ soak to re-slurry the catalyst if required.

The mechanism of filtration is a direct interception of catalyst particles on the surface of the metal filter. The cake builds up from 3 mm to 25 mm depending on the type of catalyst being used.

The cake resistance of different catalysts can also vary with operating conditions like viscosity of the liquids, density, temperature, pH etc. The new ZERO HOLDUP bottom design for Batch operations and when the solid is to be sent for regeneration after every batch, ensures that complete liquid is removed from the vessel and zero holdup is maintained.

This is very important for API manufacturing where GMP does not allow mixing of batches nor any liquid holdup is allowed.

Industrial design for waste streams uses different configuration

EFFICIENT DESIGNS

CONTUFILT range of continuous filtration solutions are specifically adapted for the process industries, with high emphasis on quality and productivity. Consistent performance and ease of operation make it irresistible to own.

The filter housing is made of SS 316 w or suitable metallurgy with Nozzles for inlet, outlet, drain, backwash fluid, vent, and pressure taps with suitable connection size and type for proper operation as per the flow parameters specified.

The housing is designed and fabricated, generally in accordance with the ASME Boiler Pressure Vessel Code, Section VIII, Division 1. Testing if required:

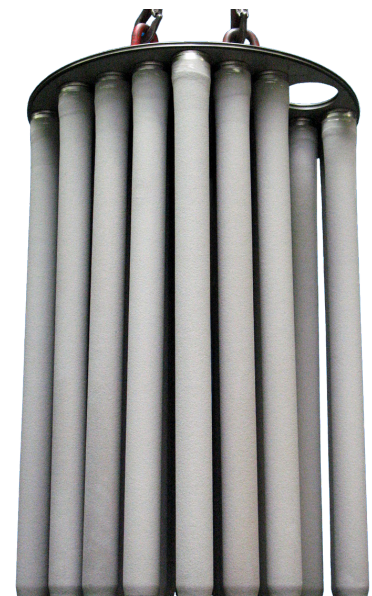
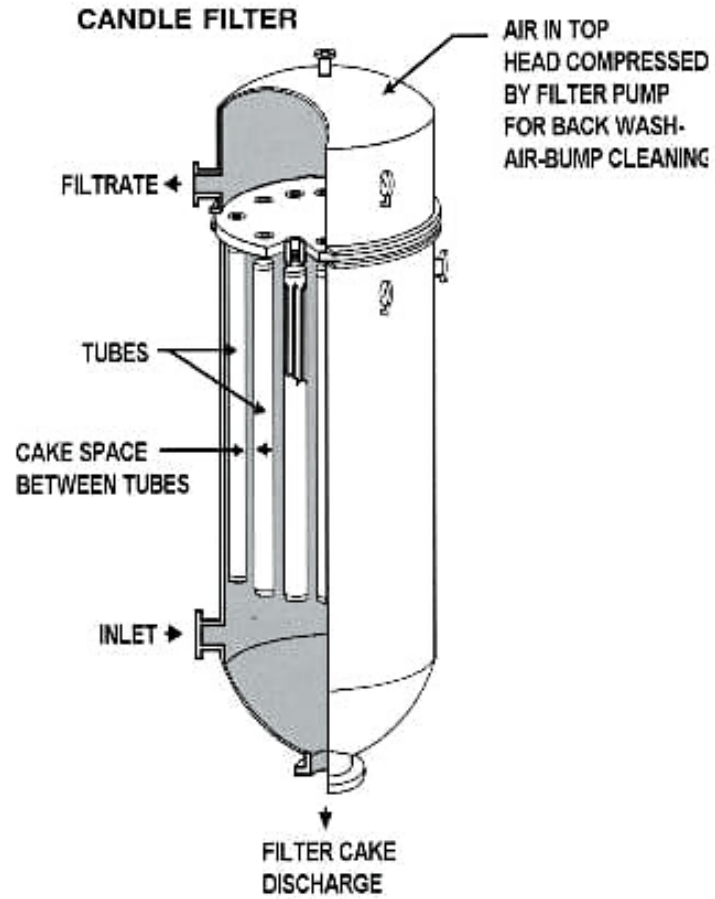
Special requirements for non-destructive testing like radiography, liquid penetrant inspection, magnetic particle inspection, leak testing, etc. should be specified as required, these are optional and client need specific.

The filter element integrity test can be performed on all filter elements using a nondestructive "Bubble Point Test" which correlates to its micron retention.



APPLICATIONS

- Activated Carbon Filtration used in processes for decoloration and removal of dissolved side trace by-products and volatiles.
- Precious Metal Catalyst ((Pt, Pd, Rh, Ru) and Raney nickel) recovery or recycle typically in Hydrogenation and other catalytic reactions
- Flue Gas Scrubbing solids in power plants and waste incineration plants - Solids comprising of Separation of solids, such as Me(OH)X, gypsum etc.
- Recovery of Solids and granulates from waste streams in Polymer plants - PTFE, PVC etc.
- Fullers earth/Bleaching earth and activated carbon in vegetable oil refineries.
- Fine solids filtration in the fine chemical and pharmaceutical industries.



Multiple Candle Bundle

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