

Eclipse® Membrane Modules

PTFE

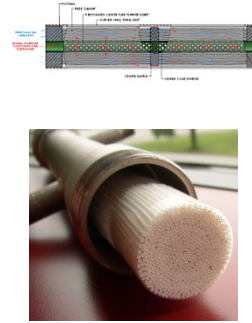
Potted bundle

Dead end and Cross Flow Small Fiber Filtration Modules (Type I)



- Enables both high operating temperatures (85°C) and cleaning cycles
- Chemically resistant to the most aggressive cleaning systems including strong alkali, organic solvents, acids and ozone cleaning agents.
- Low leachables extractables
- Fiber design tailored to process stream, solids
- High fiber packing density maximizes surface area of module.
- More robust than alternative polymeric membranes

Center Core MD, OMD, Degassing, Gas/liquid contacting modules (Type II)

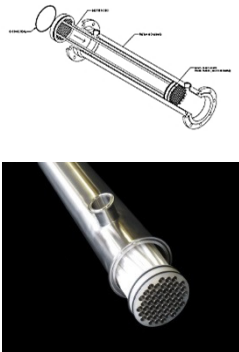


- Enables both high temperature operations (85°C) and cleaning cycles
- Chemically resistant to the most aggressive cleaning systems including strong alkali, acids, organic solvents and ozone cleaning agents.
- Low leachables extractables
- Hydrophobic membrane maximizes performance and enhances economics
- Design flexibility in wetted parts construction allows tailoring to specific process needs
- Most robust polymeric membrane

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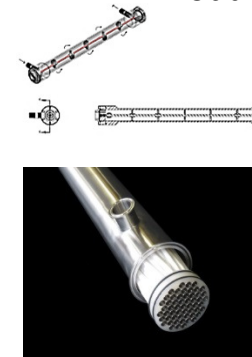
Pin/Tubesheet

High Solids Cross Flow Filtration Modules (Type III)



- Enables highest operating temperatures of any polymeric membrane module.
- Chemically resistant to the most aggressive cleaning systems including strong alkali, acids, organic solvents, and ozone cleaning agents.
- No leachables extractables
- Longer life than alternative polymeric membranes and lower cost than ceramics
- Lumen diameter adjusted to solids level providing optimal process flexibility
- Individual fibers can easily be replaced with minimal downtime.

Membrane Liquid Extraction Modules (Type IV)



- Enables highest operating temperatures of any polymeric membrane module.
- Chemically resistant to the most aggressive cleaning systems including strong alkali, acids, organic solvents, and ozone cleaning agents.
- No leachables extractables
- Monolithic membrane structure that is tough and abrasion resistant results in longer life than alternative polymeric membranes
- Lumen sized to accommodate solids levels and flow patterns
- Individual fibers can easily be replaced with minimal downtime.

Filtration

Separation