

Tubular Microfiltration Systems

A compliance power house for metal bearing process wastes, our systems are replacing, large, expensive, resource burdens, such as chemical precipitation compliance systems. Our compact, innovative MF systemizations have been proven in the most challenging environments to be bullet proof compliance tools. Recent advancements in the membrane quality and designs on the market, means you get compliance, so critical to your long term viability, at the lowest cost per gallon of any technology available today. Microfiltration simply is the best long term compliance risk mitigation technology. An easy to understand summary starts you on the road to better understanding.



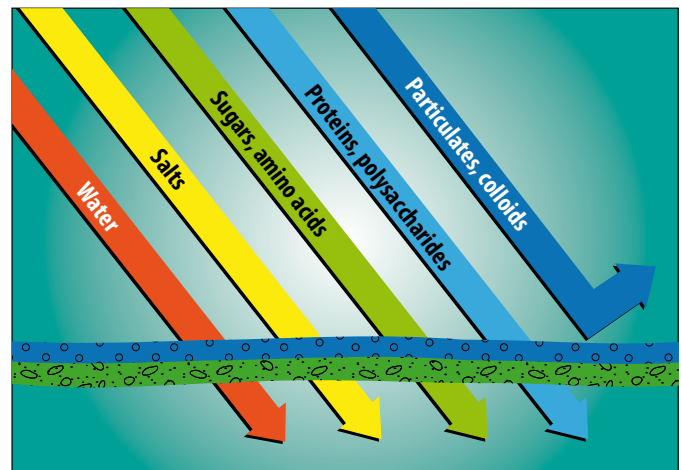
▲ 12 tube 40-60 GPM Microfiltration Process

ECONO Features and Benefits:

- E** - Efficient design, simple & durable.
- C** - Cost-effective, long-term solutions. The highest-quality, lowest cost option out there.
- O** - Options: many ECONO Series RO Systems means we have a system to meet your needs.
- N** - Never alone: remote and onsite 24-hour service, we are your total solutions vendor.
- O** - On budget, on-time delivered solutions to meet your product and financial needs.

Microfiltration is a process where solute particles greater or equal to 0.1 micron are removed from the solution. This process requires feed rates of very high velocities at low pressures. Each Microfiltration module requires a 35 GPM cross flow with a feed pressure from 40 to 50 PSI.

A major benefit of the LT Technologies' Microfiltration process is the 1-inch tubular modules cast in a synthetic mold. There are two module selections (1) contains ten (10) or (2) contains four (4) 1" tubes that allow higher micron rated particles to pass across the membrane surface without plugging the individual tubes and reducing permeate (product water) flow.



Tubular Microfiltration

Typical Application

Many manufacturing and metal finishers treat their metal bearing rinse waters through conventional treatment with a gravity plate settler. However conventional treatment can yield inconsistent metal discharge results. Microfiltration process effluent with proper pH adjustment (pre-treatment) yields very consistent metal discharge numbers due to the nominal 0.1- micron rating that only allows particulate matter less than 0.1 to pass through the Microfiltration modules. This treatment process reduces operator time significantly. Furthermore applications utilize this technology as a pre-cursor for water recycle through reverse osmosis.

Let LT Technologies develop a treatment strategy to meet the upcoming need for more stringent effluent discharge limits or water recycling objectives.



LT Technologies
LIQUID TREATMENT TECHNOLOGY

612 Plymouth Street, East Bridgewater, MA 02333
Tel: 508.586.9972 / Fax: 508.586.1630
info@lttechnologies.com / www.lttechnologies.com