Ultrafiltration membranes produce very low turbidity water used in industry. Ultrafiltration membranes supplied by Degremont Technologies Aquasource have a pore size of 0.01 microns which can also remove colloidal matter that would normally foul a Microfiltration system. With the advancement of polymer technology Ultrafiltration has become an economical treatment process providing industry with the process water demanded for today's strict water quality requirements.

MAIN FEATURES

- Custom Build and Modular Units
- Aquasource® Cellulose Tri Acetate polymer UF membranes
- Remove suspended solids including colloidal matter, biological organisms and certain viral species with a 0.01 µm cut off
- Retain soluble components
- Very low operating pressures: under 2 bar
- Complex Process Development Capability
- Quality Assurance and Control Management

ULTRAFILTRATION TECHNOLOGY

Anderson Skids utilize the highest quality hollow fiber membranes from World leading membrane suppliers including Aquasource. High efficiency membranes and low operating pressures are combined to manufacture the most economical skid to meet all client requirements.

HOW IT WORKS

The fundamental principle of Ultrafiltration membrane technology is the use of pressure to separate suspended solids including colloidal material from water through a sub micron pore (0.01 Micron). The membrane operates at very low pressure, under 2 bar and can be used as a dead end filter under certain conditions instead of the traditional cross flow configuration.

Aquasource Ultrafiltration membranes are made from a Cellulose Tri Acetate (CTA) polymer. The predominant UF membrane geometry used today for industrial applications is the hollow fiber configuration for its high surface area to volume ratio.
TECHNICAL DATA

Anderson skids are custom manufactured to specific client requirements. All system capacities can be achieved through modular design. Utilizing these building blocks flow rates from 100 to 1000 gpm are easily designed and can be physically constructed to fit into all variations of foot prints specified by our clients.

- **Materials**
  - From carbon steel to specialty alloy
  - Blasted, primed, finished coated with two-part epoxy

- **Remote controls and alarms**
  - **Intrinsic Alarms for:** High and Low Pressure, Temperature, Pressure Drop Feed, Concentrate and Permeate Flows, Conductivity. Control System could include PLC systems for both local and remote and could include linkage to SCADA control center.