

## Ultrafiltration Technology

### Product Application

Ultrafiltration was initially applied in chemical & pharmaceutical industries. It was not until 1990s that the water treatment industry was able to develop rapidly. Today, Ultrafiltration is widely used either as a pre-treatment to a RO system, a final treatment or a stand-alone system for water treatment.

- Pre-treatment to RO System
- Drinking water
- Dairy, Food & Beverage Industries
- Industrial and municipal water
- Food & Beverage Industry
- Pharmaceutical and Medical applications
- Electronics Industry
- Wastewater Treatment and Recycling
- Seawater Desalination

### Process Description

Ultrafiltration is an advance pre-treatment using membrane technology in removing not just suspended solids from water as well as viruses, algae, bacteria and other microorganism contaminants. A pressure is applied to drive the water to pass through the semi-permeable membrane leaving the higher concentration of the particulates in the membrane surface.

A pre-screening and chemical dosing is added before Ultrafiltration for high separation productivity.

### Product Benefits:

- High removal rate and filtration accuracy
- Stable effluent water quality to <0.1 NTU turbidity
- Compact and Modular design
- Automatic operation
- Low operating pressure required

### Service and Features:

- Supply as part of integrated system to achieve the performance guarantee values
- Fast track delivery
- Retrofit for existing filtration system
- Installation & supervision commissioning
- Operation & maintenance services