

# U-FLEX™

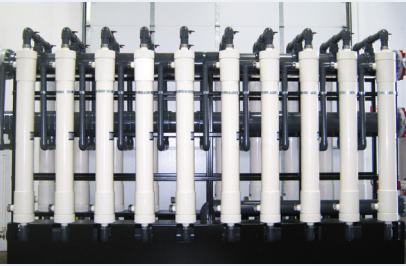
ADVANCED ULTRAFILTRATION

 **TONKAWATER™**  
a Kurita brand



Kurita America's Ultrafiltration (UF) systems utilize robust, hollow fiber membrane technology with small pore sizes to reduce particulate matter, colloidal silica, organics and other suspended materials from water. Often used as pre-treatment to other treatment plant equipment, such as reverse osmosis, UF technology offers better solids removal, higher recovery rates and smaller space requirements as compared to traditional media filtration.

## KURITA AMERICA ADVANTAGE



### ULTRAFILTRATION TECHNOLOGY PROVIDES

- Easy access and repair
- Superior fouling and chemical resistance
- Pathogen exclusion
- Particle free and consistent water quality
- Internet-based controls

### TARGETED INDUSTRIES

- Agriculture
- Automotive
- Biofuels
- Commercial & Institutional
- Food & Beverage
- General Manufacturing
- Healthcare
- Microelectronics
- Municipal Drinking Water
- Oil & Gas
- Power
- Primary Metals

### High Recovery, Low Waste

Kurita America's UF system features highly permeable, hollow fiber modules designed for high water production rates. With a tight pore size of 0.03 microns, UF technology can provide filtered water turbidity of less than 0.1 NTU and Silt Density Index (SDI) readings of less than 2.5. The tight pore size does an excellent job trapping and concentrating collected material on the membrane surface. With design recovery rates as high as 97%, depending on water source, UF is a preferred technology in reducing wastewater volume.

### Durable Fiber Membranes

The hollow fiber UF membranes are constructed of robust PVDF materials. These materials allow feed water with a wide pH range, as well as the use of aggressive chemical cleanings, without compromising the membrane life. Kurita America designs UF systems with conservative flux rates to reduce cleaning frequency and extend membrane life leading to an overall lower cost of ownership.

### Advanced Automation

All UF feed systems include factory tested PLC control with local HMI displays, offering superior system control, asset sustainability and operational efficiency. Automatic backwash and system cleaning reduces operator labor and maintenance. Online monitoring, operation trending, customizable dashboards and system alarming enables users to react quickly to developing conditions before they lead to interrupted operations or unplanned downtime.

### Skid-Mounted for Easy Installation

Kurita America's UF systems are completely skid mounted from the factory, reducing field installation costs. Systems are complete with feed pumps, strainers, module racks, filtered water tanks, backwash pumps, chemical feed and cleaning equipment. Our UF systems can be tailored to your exact plant specifications with your choice of piping and frame materials as well as instrumentation and control options.