Dow Minimal Liquid Discharge (MLD) Solution

A water management approach that can help you increase recovery and reduce costs.

Achieve up to 95% liquid discharge recovery but at a fraction of ZLD’s costs.
**DOW INTEGRAFLUX™ XP ULTRAFILTRATION MODULES**
- High productivity ultrafiltration modules with industry leading membrane area and high permeability XP fiber
- High mechanical strength PVDF fiber with excellent chemical resistance providing long membrane life and reliable operation
- Outside-in flow configuration allowing a wide range of solids in the feed water minimizing the need for pretreatment processes and reducing the backwash volume compared to inside-out configurations

**DOW AMBERLITE™ IRC83 WAC RESIN FOR HARDNESS REMOVAL**
- Up to 30% more operating capacity than current weak acid cation resins
- Fewer regeneration cycles reduce waste volume up to 15%
- Superior physical stability yields long resin life

**DOW FILMTEC™ FORTILIFE™ CR100 RO MEMBRANES**
- Up to 50% less frequent cleanings due to bio-fouling
- Improved hydraulic balance for low organic fouling and lower energy
- Reduced rate of flux loss in challenging waters
- Highly cleanable membrane chemistry
- Up to 10% lower energy operation
- High permeate quality to enable blending with higher TDS for reuse

**DOW FILMTEC™ FORTILIFE™ XC 70 RO MEMBRANES**
- Maximize purity of reuse water while concentrating the brine to >70,000 ppm TDS within standard operating limits
- Fouling resistance
- Increase productivity
- Less frequent cleaning, more up-time, longer element life

**DOW FILMTEC™ FORTILIFE™ XC 80 RO MEMBRANES**
- Lower brine volume and maximize recovery by concentrating the brine to > 80,000 ppm TDS, within standard operating limits
- Fouling resistance
- Reduce discharge with standard RO system designs
- Less frequent cleaning, more up-time, longer element life
- Low energy RO operation

**DOW FILMTEC™ FORTILIFE™ XC-N RO MEMBRANES**
- Reduce brine volume and achieve concentrations of 100,000 to 200,000 ppm TDS thus significantly reducing discharge volume and downstream processes
- Distinctive ultra-high pressure element construction allowing operation up to 120 bar (1,740 psi)
- High pressure, fouling-resistant DOW FILMTEC™ SW30 flat sheet

**DOW FILMTEC™ FORTILIFE™ UHP RO**
- Reduce brine volume and achieve concentrations of 100,000 to 200,000 ppm TDS thus significantly reducing discharge volume and downstream processes
- Distinctive ultra-high pressure element construction allowing operation up to 120 bar (1,740 psi)
- High pressure, fouling-resistant DOW FILMTEC™ SW30 flat sheet

**DOW FILMTEC™ FORTILIFE™ XC-N RO MEMBRANES**
- Highly selective membrane with high mono-valent ion passage and di-valent ion rejection
- High permeability at low pressures and high TDS levels
- Purified, high concentration brine solution for reuse
- Less dissolved solid wastes
- Low energy operation