



# POLEEDUC

## Series MDU Liquid Polymer Make-Down Systems

### Series MDU

**MDU-10**  
*10 gpm*

**MDU-20**  
*20 gpm*

**MDU-30**  
*30 gpm*

**MDU-60**  
*60 gpm*

**MDU-80**  
*80 gpm*



### Because You Want the Polymer Business, Not an Equipment Trial.

With ProFlow, your successful trial starts with a system designed, manufactured, fully tested, and thoroughly documented in accordance with ISO 9001 quality standards. Upon delivery, we can provide all the startup support you may require. So from Day One, your ProFlow system simply works. Which means that your product and expertise remain the focus of the polymer program.

#### ***Stretch Your Polymers***

Thanks to our superior mixing technology, ProFlow MDUs deliver specified dilutions at up to *50% higher viscosities* than any other units we have tested. This fully activates your polymer so you hit your process target with less polymer, at lower cost. What's more, you stay on target because our feedwater buffer tank protects your process from water pressure fluctuations.

#### ***Raise Your Profits***

ProFlow customer support is as solid as our systems engineering. From in-house engineering support to on-line diagnostic to on-call emergency service-24/7/365-ProFlow provides what it takes to keep your system running at peak performance long after your successful trial is over. The bottom line? The ProFlow MDU perfectly breaks your polymers and concentrates your profits in the process!





### ProFlow Series MDU Design Benefits

- Feedwater buffer tank maintains specified polymer concentration despite incoming water pressure changes and surges.
- Unit delivers specified dilutions at *up to 50% higher viscosities* than any other units we have tested, so you achieve desired results with less polymer, at lower cost.
- Automated flush cycle removes dilute polymer from the unit at the end of each cycle to help prevent plugging.
- PLC control with user-friendly operator interface terminal includes:
  - Specific alarm messaging streamlines troubleshooting.
  - DCS interface capability to allow central monitoring from control room.
  - Run Time/Batch Counter for monitoring operation displayed at the unit.
- Comprehensive I,O&M manual simplifies operation and maintenance.
- Full service support ensures high uptime and 'round-the-clock assistance.
- Customized options address your specific process needs.
- Individual monitoring of water and polymer feed flow ensures consistent output or automatic alarm and shutdown when required.
- Fused electrical disconnect and emergency stop on control panel provide added protection.
- Feed tank level sensors control MDU to facilitate unmanned operation.
- Stainless steel, heavy-duty construction withstands harsh environments.
- Compact design minimizes footprint and space requirements.

### System Specifications

**Capacity:** 10 to 80 GPM (40 LPM to 300 LPM) standard.

Smaller or larger models built per your needs.

**Concentration range:** 0.25% - 2.0%

**Polymer pump:** Stainless steel

**Mix pump:** Cast housing

**Piping:** Stainless steel

**Buffer tank:** High-density polyethylene

**Electrical:** 230, 380, 460, or 575 VAC, 3 phase, 50/60 Hz

**Controls:** PLC and Operator Interface

**Options:** Stainless steel mix pump

Stainless steel feedwater buffer tank

Stainless steel control panel

Feed tanks

Polymer feed pumps

Polymer flow meters

Dilution pump skids

Post dilution skids

Emulsion, solution and dry polymer

combination systems

### System Operation

The ProFlow Series MDU is designed for easy operation and maintenance.

Guided by a simple, logical command set, the MDU delivers precisely-diluted and properly aged polymers without operator supervision or intervention.

If the process falls outside operator determined limits, the system suspends operation and activates alarms to facilitate swift troubleshooting. At the end of each run, the system automatically flushes its all-stainless-steel flow path to provide clean starts and to promote extended service life.

Pol-E-Duc is a registered trademark of Tiorco Inc.  
Patent pending

ISO 9001 Certified



TUV Rheinland  
of North America



RvC  
Accreditation



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*When the System Must Be Right*  
**ProFlow**