

Seltra Series – Advanced Membrane Separation Systems for Ultrapure Water & Reuse

Integrated Membrane Technologies for Pure Water Recovery

The **Seltra** platform by Deepflow offers a full spectrum of membrane technologies— **MBR, UF, RO, DTRO, NF, EDI**—engineered to deliver ultra-high purity water, robust wastewater reuse, and efficient desalination. Each module is skid-mounted, factory-tested, and designed for rapid deployment, whether as standalone units or integrated into larger ZLD or multi-stage systems.

Seltra systems balance compact design with high performance. With advanced hydraulics, optimized membrane flow paths, and intelligent automation, these units maintain stable flux rates and robust rejection even under varying feed water quality. High water recovery and low energy consumption are built into every unit.

The series includes:

- **DMBR** – combining biological treatment and membrane separation for sustainable reuse.
- **DUF** – ultrafiltration modules ideal for solids removal and RO pretreatment.
- **DRO** – conventional reverse osmosis systems for salt separation and purity.
- **DTRO** – disc-tube RO systems optimized for high TDS and challenging brines.
- **DNF** – nanofiltration units for softening, partial desalination, and selective separation.
- **DEDI** – electrodeionization for final polishing to ultrapure quality.

Typical applications include semiconductor rinsing, pharmaceutical & biotech, power boiler feed, chemical process reuse, and demanding ZLD environments. Construction options range from standard **316L / FRP** to high-end **Titanium / Super Duplex 2507** for harsh, corrosive waters.

Key Benefits

Feature	Advantage
Complete Membrane Suite	From MBR to EDI, covering all separation steps within one unified range.
Skid-Mounted & Modular	Factory-built, pre-piped and –wired, with fast site installation.
Stable Flux & Low Energy Use	Optimized flow paths and efficient design reduce energy consumption.
Smart Automation & Monitoring	Integrated control for pressures, flows, backwash, and cleaning cycles.
Corrosion-Resistant Material Options	Titanium / Super Duplex 2507 available for aggressive water chemistries.
Scalable & Flexible	Easily expanded by adding modules or configuring in series/parallel layouts.