



SNOWPURE

Water Technologies

ExcellUltra™ UF

Ultrafiltration Membranes

SnowPure's ExcellUltra™ UF membranes are uniquely designed for pretreatment to RO membranes, and for final filtration of ultrapure water. These proprietary membranes are available only from SnowPure.

ExcellUltra™ UF membranes can be used to:

- ◆ Low fouling pretreatment RO feedwater
- ◆ Polishing of Ultrapure water
- ◆ Custom membranes for custom applications

ExcellUltra™ UF membranes are available in spiral-wound form, with or without our unique "low pressure drop" UF Vessel. Spiral UF is strong, and avoids the weak PVDF Hollow Fiber breakage problem. For fouling surface waters, spiral-wound UF modules with parallel spacer construction are low pressure drop and easy to clean.



| | SXU-R | SXU-T | SXU-V |
|--|-----------------|-----------------|-----------------|
| Material | PES | Hydrophilic PSO | PVDF |
| Suitability | Proteins | RO Pretreatment | Oily Waters |
| MW Cutoff*, Daltons | 10,000 | 50,000 | 300,000 |
| Nominal Operating Pressure** | | | |
| PSI (MPa) | 20-40 (0.2-0.3) | 10-30 (0.1-0.2) | 10-30 (0.1-0.2) |
| Nominal Operating Flux*** | | | |
| GFD (LMH) | 10-25 (15-40) | 10-25 (15-40) | 5-20 (15-40) |
| * tested under ideal standard conditions | | | |
| ** pressures depend highly on UF system hydraulics | | | |
| *** recommended flux depends on application | | | |



| Membrane Parameters | SXU-R | SXU-T | SXU-V |
|---------------------------------------|--------------------|--------------------|--------------------|
| Operating Flux, GFD (LMH) | 10-25 (15-40) | 10-25 (15-40) | 5-20 (8-35) |
| Maximum Operating Pressure, psi (MPa) | 200 (14) | 200 (14) | 100 (10) |
| Typical Operating Pressure, psi (MPa) | 20-40 (0.2-0.3) | 10-30 (0.1-0.2) | 10-30 (0.1-0.2) |
| Maximum Temperature, C | 50 | 50 | 50 |
| Operating pH range (recommended) | 4-11 | 4-11 | 4-10 |
| Cleaning pH range (limits) | 1-11.5 | 1-11.5 | 1-11 |

SXU-R is an asymmetric UF membrane made with **PES** (polyethersulfone). It has a very well controlled MWCO, and so is ideal for applications where protein rejection is important. Very good caustic and chlorine resistance.

SXU-T is an asymmetric UF membrane made with **PSO** (polysulfone). It has a larger pore size, and so is ideal for general RO pre-treatment applications. PSO has very good chemical stability, is strong, and easy to clean.

SXU-V is an asymmetric UF/MF membrane made with **PVDF** (polyvinylidene fluoride). It has larger pores than PES and PSO. SXU-V is ideally suited for waters that have oil or grease. SXU-V is more chlorine tolerant than PES and PSO UF membranes. PVDF is hydrophobic.



SnowPure's Separation Technologies

- Electropure™ EDI
- Zapwater™ Laboratory EDI
- Electropure™ ED—Electrodialysis
- EXCELL™ Membranes (IX, NF, UF)
- SPUV™ High Efficiency UV
- GTM-Gas Transfer Membranes
- DC Power Supplies

Doing business with SnowPure

- Electropure™ EDI technology was born in 1977, before Ionpure
- SnowPure is privately held
- SnowPure is your partner, not a competitor
- High quality technology training and OEM support
- Focus on Customer Service, rapid response.

Benefits of Excell™ Membranes

- USA Membrane Technology
- Manufactured in USA
- Highly controlled process
- 34 years of broad membrane experience
- Reliable, robust, proprietary membranes
- ISO-9001 compliant quality system

Technology Training and OEM System Design Support

- SnowPure believes strongly in training—this helps ensure field success with our technologies.
- SnowPure assists new OEM customers through their system design phase, both during the OEM training and the design process. Support includes reviews of P&I diagrams and feedwater requirements.
- Combined with ongoing Technical Service, we help ensure success.

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