

TRILITE® UPRM400U

Mixed resin for ultrapure water

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TRILITE® UPRM400U is an ion exchange resin for high-purity ultrapure water, which is produced by mixing regenerated uniform cation and anion exchange resins in equal quantities. It is possible to manage not only the purity of the produced water but also the Total Organic Carbon (TOC) and Ion leakage.

Physical and Chemical Properties

		SAC	SBA
Matrix		Styrene-DVB, Gel	
Functional group		H ⁺	OH ⁻
Ionic form		1.9	1.0
Particle Size(μm)		0.62±0.05	0.62±0.05
Uniformity coefficient		1.1 ↓	1.1 ↓
Ionic Conversion(%)	H ⁺	99.0 Min	
	OH ⁻	95.0 Min	
	Cl ⁻	1.0 Max	
Inlet condition		Ultrapure water, Resistivity>17.5MΩ·cm, TOC<2ppb, SV30	
Outlet condition		Guaranteed 18.1 MΩ·cm ↑ (in 30min.) △TOC<1ppb(in 120min.) Metal ion leakage<0.1ppt	

Recommended Operating Conditions

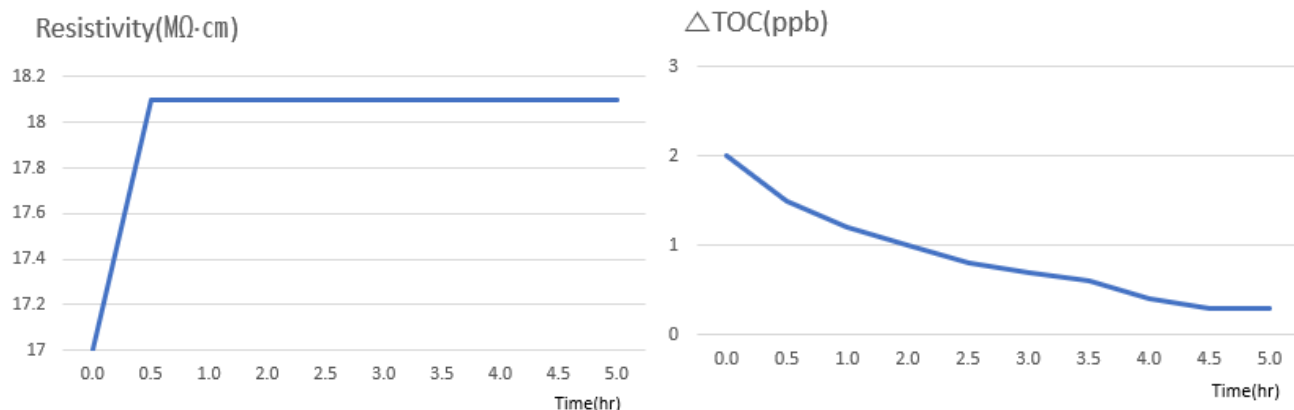
Operating Temp(°C)	60	pH Range	0~14
Bed Depth(mm)	600	Service Flow Rate(m/h)	5~60

Applications

TRILITE® UPRM400U is used for producing high-purity ultrapure water for final polishing in semiconductor applications.

Resistivity & TOC

- Resistivity > 18.1 MΩ·cm (in 30min)
- ΔTOC < 1ppb (in 120min)
- Feed Water : Resistivity > 17.5 MΩ·cm, TOC < 2ppb, SV = 30



Hydraulic Characteristics

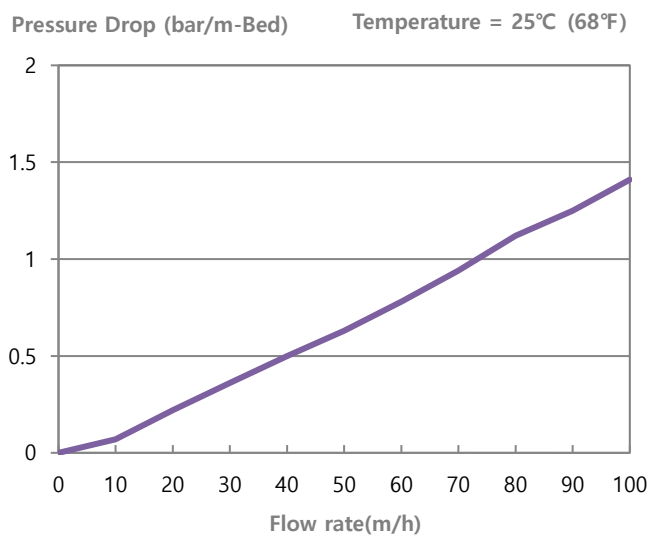


Figure 1. TRILITE® UPRM300U

Packing

25ℓ PE Bag, 50ℓ Drum

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