

TRILITE® UPRM300U

Mixed resin for ultrapure water

Rev.3 Feb 2023

TRILITE® UPRM300U is an ion exchange resin for high-purity ultrapure water, which is produced by mixing regenerated uniform cation and anion exchange resins in equal capacity ratio. It is possible to manage not only the purity of the produced water but also the Total Organic Carbon (TOC).

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 Resistivity>18.2 MΩ·cm ↑ (in 30min.) △TOC<1ppb(in 180min.)	

Recommended Operating Conditions

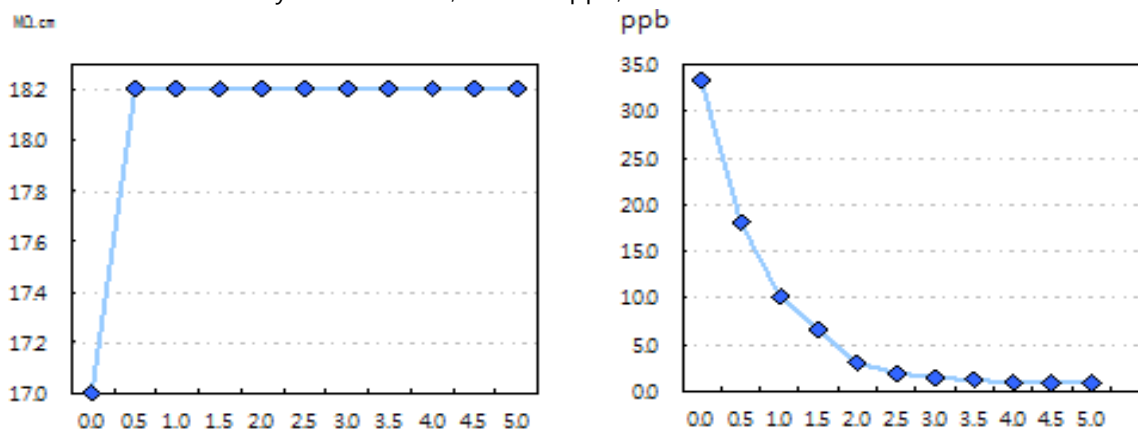
Operating Temp(°C)	60	pH Range	0~14
Bed Depth(mm)	600	Service Flow Rate(m/h)	5~60

Applications

TRILITE® UPRM300U is mainly used to produce high-purity ultrapure water in fields such as LCD, OLED and semiconductors.

Resistivity & TOC

- Resistivity > 18.2 MΩ·cm (in 30min)
- ΔTOC < 1ppb (in 180min)
- Feed Water : Resistivity > 17.5 MΩ·cm, TOC < 2ppb, SV = 30



Hydraulic Characteristics

Pressure Drop (bar/m-Bed) Temperature = 25°C (68°F)

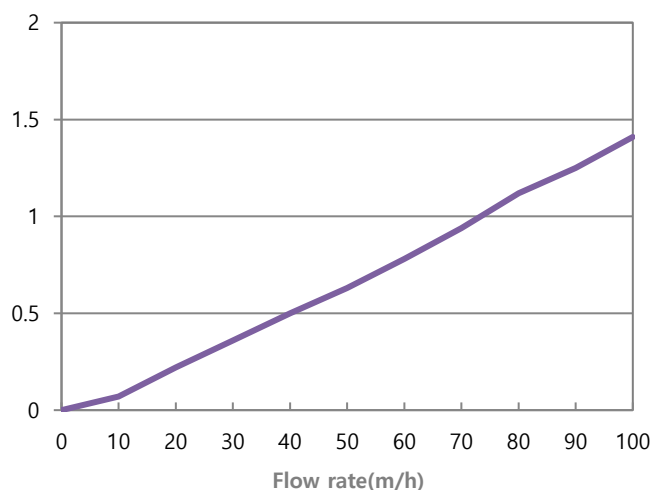


Figure 1. TRILITE® UPRM300U

Packing

25ℓ PE Bag, 50ℓ Drum

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