

SEA-IX™

CationCore UPS

SAC-G-H/UPS

SAC Exchange Resin

Uniform Particle Sized, Gel-Type

Technical Data Sheet

CationCore UPS is a high cross-linked UPS SAC gel-type exchange resin, which has outstanding physical and chemical strength and a low resin attrition rate during long-term use. It is a product with outstanding impact strength due to its high cross-linking density.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	H+	Total Capacity(eq/ℓ)	2.40 ↑
Shipping Density(g/ℓ)	815	Moisture Retention(%)	36~43
Particle Density	1.32	Uniformity Coefficient	1.1 ↓
Particle Size(μm)	550±50	Swelling Rate(Na+ → H+, %)	7
Whole Beads(%)	95 ↑		

Recommended Operating Conditions

Operating Temp(°C)	120 ↓	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~120

Applications

CationCore UPS is applied in nuclear power plant systems and maintains the outlet water quality with a ΔTOC of 10ppb under standard operating conditions.

Packaging:

- 1000 lbs. (453 kg) super sacks
- 50lb Bags (22.6 kg) - 24 per pallet

Shipped from:

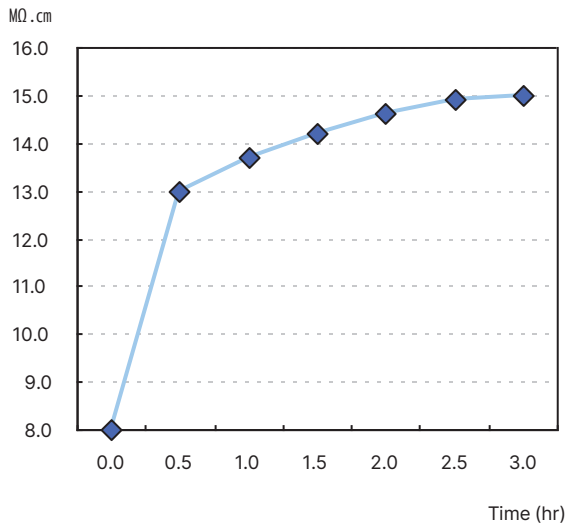
- Huntersville, NC



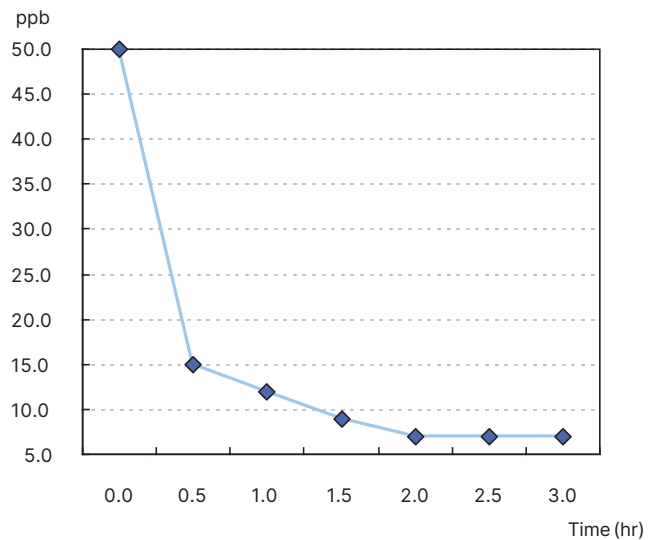
1. Test Condition and Result

- Resistivity > 12.0 **MΩ.cm** (in 30min)
- ΔTOC < 10ppb (in 90min)
- Standard operating condition (Feed Water) : Resistivity > 17.5 **MΩ.cm**, TOC < 3ppb, SV = 30

<Resistivity>



<ΔTOC>



2. Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of CationCore UPS as a function of flow rate and temperature.

Bed Expansion (%)

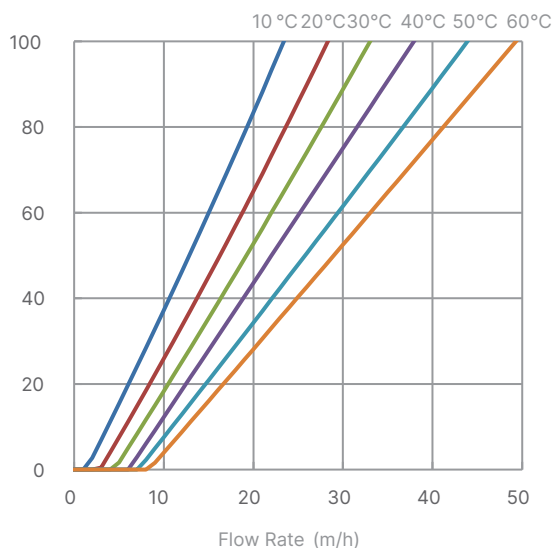


Figure 1 . CationCore UPS⁺ Type Bed Expansion

Pressure drop (kPa/m -

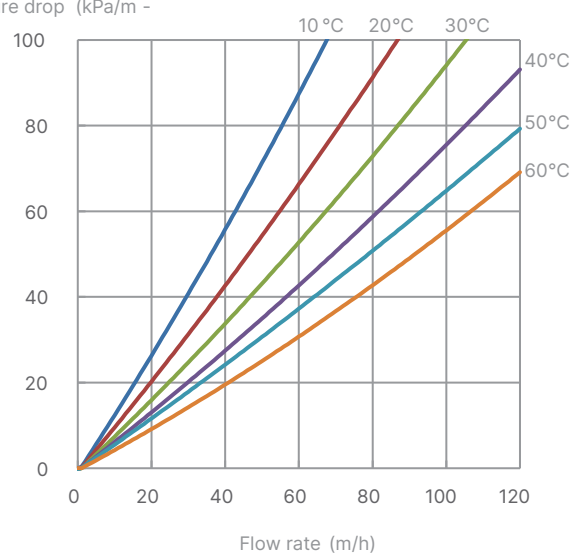


Figure 2 . CationCore UPS⁺ Type Pressure drop