

GENERAL TECHNOLOGIES, SPC

- High-Quality Services & Products

Tel: (913) 708-8131, Fax: 253-663-9333
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A-312HPLT, (True Uniform Particle Size) Cl TRUE UNIFORM BEADS, ULTRA-PURE GRADE STRONG BASE (Designed for use in ultra-high purity water treatment applications)

Product Description

A-312HPLT Strong Base Anion Exchange Resin is a Gel Type1 true Uniform Particle Size resin.

It is a standard cross-linkage product and it has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. It can be supplied by Cl- form. OH- form is available depending on application and user's request.

When used in Mixed Bed with anion resin, the resins are specially selected to ensure - ultra-pure water grade low conductivity (resistivity > 18 megohms) and very low effluent TOC values (<13 ppb).

A-312HPLT designed to provide ultra-pure water required for many applications such as for softening, demineralization, and other special processes like lysine, sugar and catalyst reaction. Because of its excellent ion removal capacity, high purity water can be produced economically

The true uniform particle size provides lower pressure drop during operation and more efficient chemical usage during re-generation.

Physical and Chemical Properties

Physical Form	Beige translucent spherical beads
Matrix	Styrene-DVB,Gel
Functional Group	Type 1 (Trimethylammonium)
Ionic Form	Cl-
Total Capacity (eq/ℓ)	>1.30
Moisture Retention (%)	49~55
Shipping Density(g/ℓ)	680
Particle Density	1.08
Uniformity Coefficient	<1.1
Particle Size(mm)	0.575±0.05
Whole Beads(%)	>95
Crush Strength(kgf/bead)	>1.5
Trace Metals(ppm/dry resin)	Al <25, Ca< 40, Cu< 5, Fe< 25, Mg< 25, Pb< 5, Na< 10
Swelling(Na-℔H+, %)	24

Recommended Operating Conditions

Physical Form	
Operating Temp(°F)	80(Cl-), 60(OH-)
pH Range	0~14
Bed Depth(mm)	800
Service Flow Rate(m/h)	5~60
Regeneration	
Regenerant	NaOH
Concentration(%)	2~8
Level(g/ℓ)	50~150
Flow Rate(m/h)	2~8
Rinse Requirement(BV)	2~6

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Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of A-312HPLT as a function of flow rate and temperature.

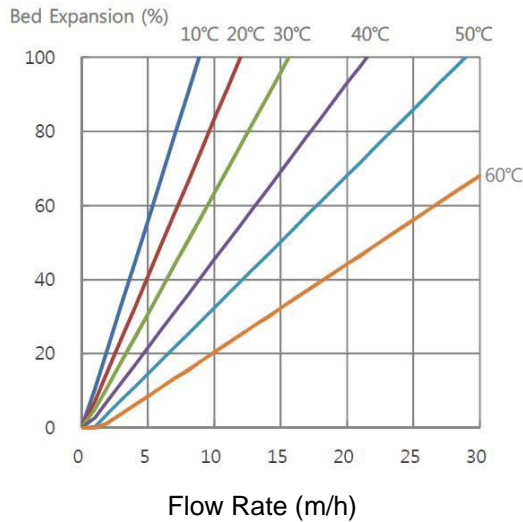


Figure 1. A-312HPLT Na+ Type

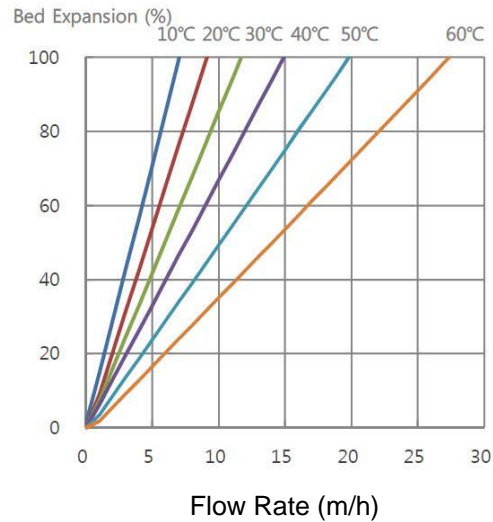


Figure 2. A-312HPLT H+ Type

Figure 3 and 4 show the pressure drop of A-312HPLT as a function of flow rate and water temperature.

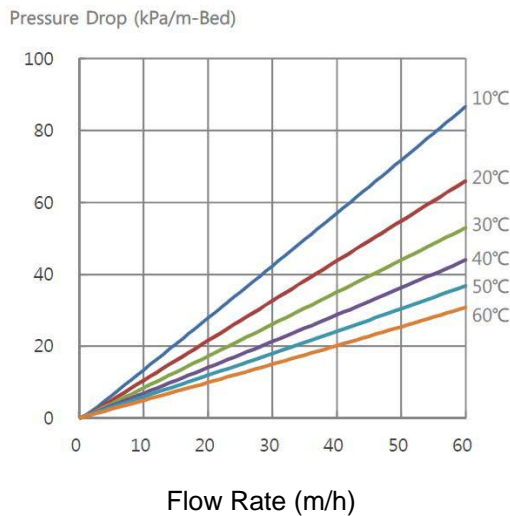


Figure 3. A-312HPLT Na+ Type

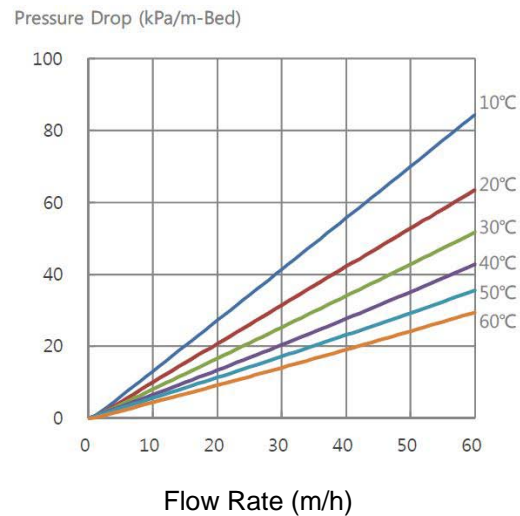


Figure 4. A-312HPLT H+ Type