

Product Data Sheet

DIAION™ CPA120H

DIAION™ CPA120H is a porous type strongly basic anion exchange resin. It has a 6% cross-linkages and excellent properties. It is recommended for condensate polishing in power plants.

Product

Grade Name	DIAION™ CPA120H	
Type	Strong Base Anion	
Matrix	Styrene-DVB, Porous	
Functional Group	Type I (trimethyl ammonium groups)	
Ionic Form	OH ⁻	

Specification

Whole Bead Count	-	95 min.
Salt Splitting Capacity	meq/mL	0.9 min.
Water Content	%	58 - 68
Particle Size Distribution on 1180 μm	%	5 max.
Particle Size Distribution thr. 425 μm	%	2 max.
Effective Size	mm	0.500 - 0.710
Uniformity Coefficient	-	1.4 max.
Ionic Form Conversion OH Form	eq%	90 min.
Ionic Form Conversion CO ₃ Form	eq%	10 max.
Ionic Form Conversion Cl Form	eq%	0.2 max.

Typical Properties

Shipping Density	g/L	660
Mean Particle Size	μm	700
Particle Density	g/mL	1.07
Total Swelling (Cl ⁻ to OH ⁻)	%	23

DIAION™ CPA120H**Recommended Operating Conditions**

Maximum Operating Temperature	°C	80 (Cl ⁻) 60 (OH ⁻)
Operating pH Range		0 - 14
Minimum Bed Depth	mm	450
Service Flow Rate	m/h	Fast rinse 5 - 60 Condensate polishing 40 - 150
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 8
Regenerant Level	g/L	50 - 200
Regenerant Flow Rate	m/h	1 - 10
Total Rinse Requirement	BV	2 - 5

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of DIAION™ CPA120H resin in normal down flow operation is shown in the graphs below.

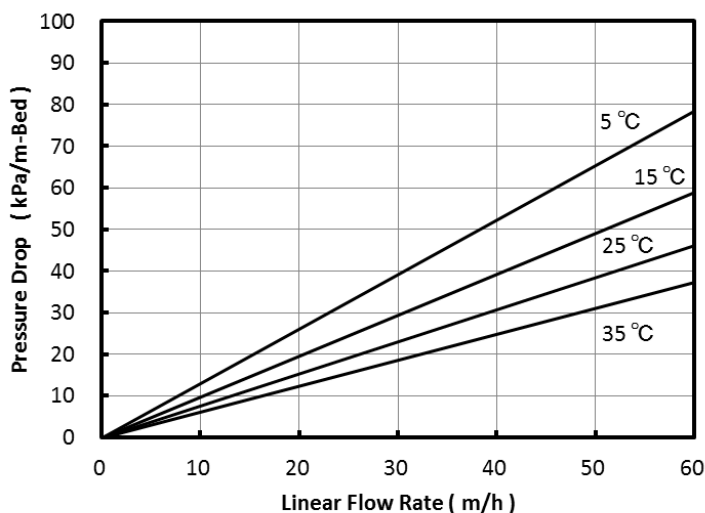


Fig. 1 Pressure Drop of CPA120H

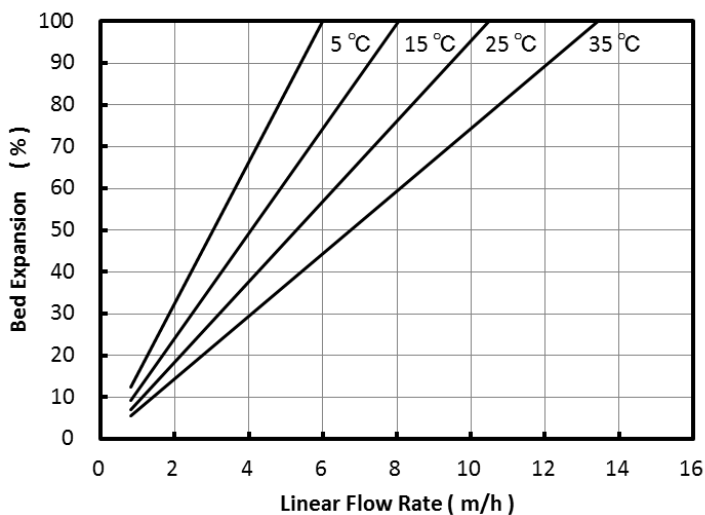


Fig. 2 Bed Expansion of CPA120H

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