axion C220 NA

Ion Exchange Resins

Efficient Water Softening

EEC FDA IS:7330-1988

Description

Axion C220Na, Strong Acid Cation resin in its Na form can be used for softening applications. Axion offers excellent physical, chemical and thermal stability and has good ion exchange kinetics. Axion resin's durable bead strength facilitates more regeneration cycles.

Features

- Good chemical, thermal and physical stability
- High exchange capacity
- High operating temperature of 120 Deg Celcius

Applications

The Axion C220Na range of resins is used to produce softened water for Cooling Water Treatment, Process Water, and Pretreatment to RO to reduce hardness and more.

Industry Focus

- Textiles
- Food & Beverages
- Pharmaceuticals
- Chemicals
- Electronics
- Automobiles
- Hospitality

Properties	
Matrix Functional groups	Styrene divinylbenzene Co polymer
Physical form	Sulphonates
Ionic form as supplied	Amber beads
Total exchange capacity	Minimum 1.85 eq / l (Na+ form)
Specific Gravity	1.25 (Na+ form)
Packing density	750 -800 gm/l
Particle size	0.3–1.2mm
Operating pH range	0-14
Chemical stability	Insoluble in dilute acids or bases and common solvents

Suggested Operating Conditions	
Bed Depth	700 – 2000 mm
Specific Flow rate	5- 45 BV / h
linear velocity	5 - 45 m/h
Regenerant	NaCl
Regeneration Level	50 to 250 kg NaCl/m3 of Resin
Regenerant Flow rate	3 to 8 BV/h
Regenerant Concentration	8-12%
Contact Time	25 - 30 Min
Slow and Fast Rinse	Min 2 BV at regeneration flow rate

Performance

The operating capacity of the softening method depends on several factors. Water analysis and level of regeneration are key factors affecting the process of water treatment.

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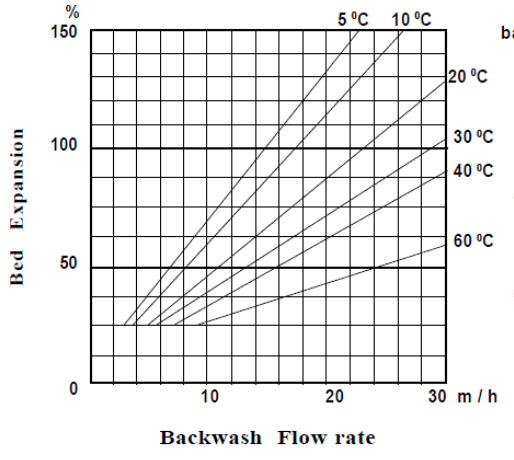
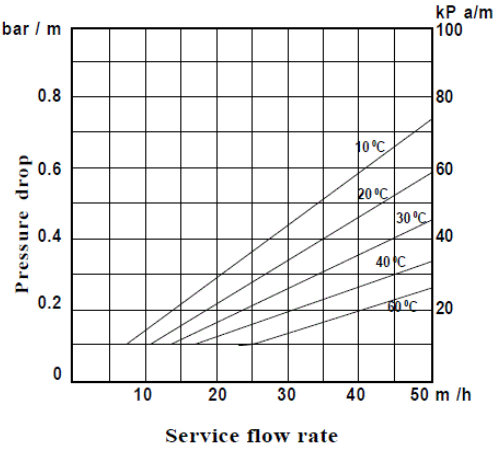
Figure 1 shows the bed expansion of Axion C220 Na as a function of backwash flowrate and temperature
Figure 2 shows the pressure drop for standard Axion C220Na as a function of service flow rate and water temperature. Pressure drop data are valid at eth start of the service run with a clear water influent and correctly classified bed.

BED EXPANSION



PRESSURE DROP*



Value of 5

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