



PC002

Food Grade
Gel Strong Acid Cation Exchange Resin

PURE RESIN

Suggested Operating Conditions

Maximum Temperature

Na ⁺ form	120°C (248°F) max.
H ⁺ form	100°C (212°F) max.

Minimum Bed Depth 0.6 m (24 inches)

Backwash Rate 50-75% bed expansion

Regeneration

Regenerant Concentration	8-20% NaCl or saturated salt water
Flow Rate	2 to 7 BV/h (0.25 to 0.90 gpm/cu.ft)
Contact Time	At least 30 Minutes

Displacement Rinse Rate Same as Regenerant Flow Rate

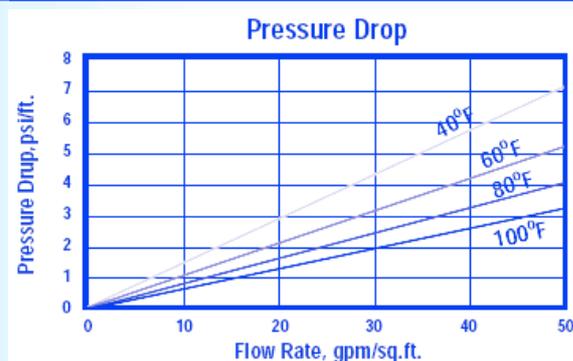
Displacement Rinse Volume 10-15 gallons/cu.ft

Fast Rinse Rate 8-40 BV/h (1.0-5.0 gpm/cu.ft)

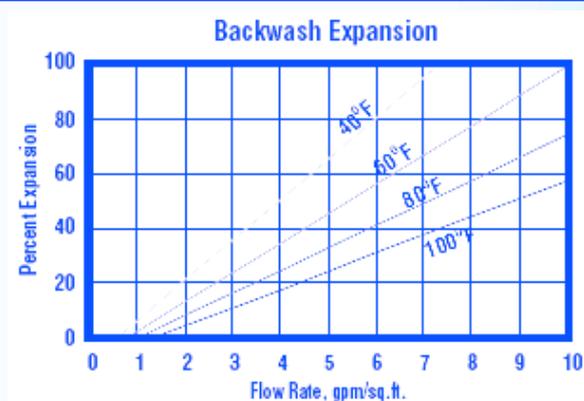
Fast Rinse Volume 3-10 BV (24-45 gal/ft³)

Service Flow Rate 8-40 BV/h (1.0-5.0 gpm/cu.ft)

Hydraulic Properties



Pressure Drop: The graph above shows the expected pressure loss per foot of bed depth as a function of flow rate at various temperatures.



Backwash: After each cycle the resin bed should be backwashed at a rate that expands the bed 50 to 75 percent. This will remove any foreign matter and reclassify the bed. The graph above shows the expansion characteristics of Pure PC002 in the sodium form.

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