Resinex™
Ion Exchange Resin

Resinex™ KW-8

Strong acid cation softening resin

Resinex™ KW-8 is a high purity, premium grade, pretreated, strongly acidic gel-type cation exchange resin specially designed for residential drinking water treatment. The KW-8 is a bead type, crosslinked, polystyrene divinylbenzene resin that offers excellent bead integrity and very low extractables. The product is highly suitable for a wide variety of drinking water treatment applications. Resinex™ KW-8 has a light amber color and is specially pretreated to remove taste, odor and color throw. Resinex™ KW-8 meets the requirements of FDA regulation CFR section 21, §173.25.

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	Gel-type, amber, spherical beads
Functional group	Sulfonic acid
Whole bead count	95% min.
Ionic form, as shipped	Na^+
Bead size	16x40 US mesh (0.42-1.25 mm)
Effective size	0.45 - 0.55 mm
Bulk density	820 kg/m^3
Real density	1.28 g/cm^3
Water retention	45-50%
Total capacity	1.90 eq/l min.
Volume change Ca^{2+} –> Na^+	2% max.
Stability, temperature	120°C max.
Stability, pH	0-14
Color throw	25 APHA max.

Standard Design Conditions

Bed depth	>750 mm
Service flow rate	8-40 l/h/l
Backwash expansion	50-75%
NaCl concentration for regeneration	8-15%
NaCl flow rate for regeneration	5-8 l/h/l
Rinse rate (slow)	1-3 bed volumes at regeneration flow rate
Rinse rate (fast)	3-6 bed volumes at service flow rate
Turbidity	<5.0 NTU
Free chlorine	<1 ppm

Key Features and Benefits

- **Pretreated and Rinsed**
  Guarantees minimal color throw and eliminates taste and odor
- **High Integrity Beads**
  Excellent resistance to mechanical degradation ensures low pressure drop
- **Low Extractables – FDA Compliance**
  Specially treated to eliminate leaching of organic matter, assuring compliance with FDA regulation CFR section 21, §173.25.
- **European ResAP (2004) 3 Approved**
  Meets European Council Resolution AP (2004) 3 for use of ion exchange resins in the processing of food products
- **WRAS BS 6920 Approved**
  BS 6920 for cold water and hot water up to 85°C

Typical Applications

- Residential softening
- Industrial softening
- Municipal softening

Standard Packaging

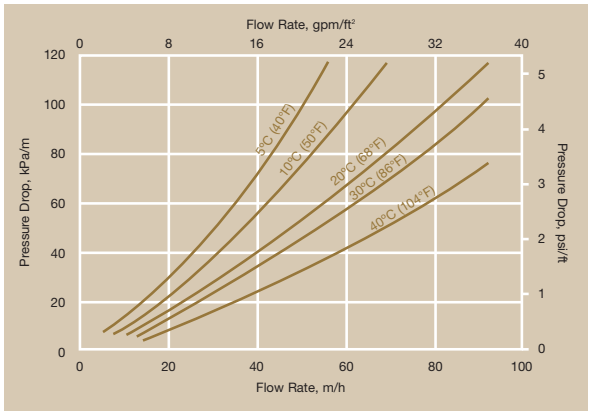
- 25 lit. PE valve bags
- 1000 lit. big bags

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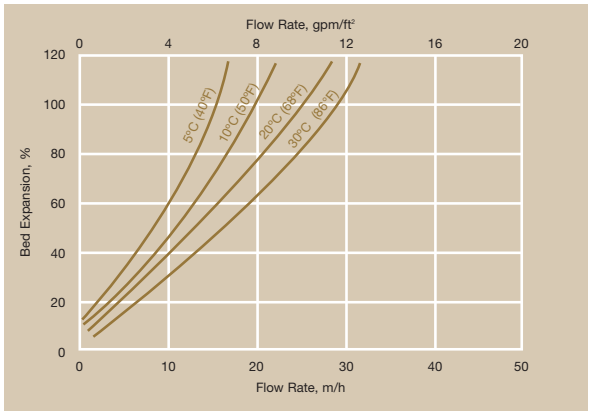
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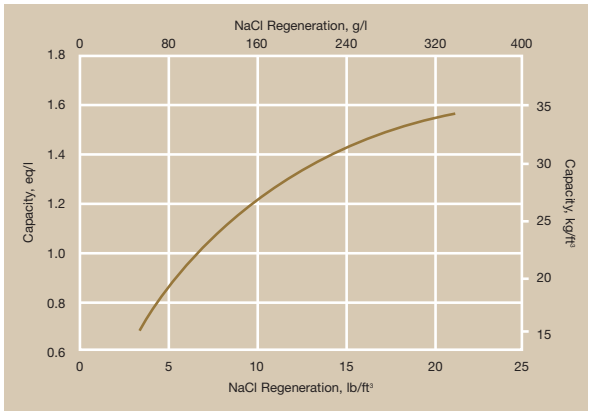
Pressure Drop



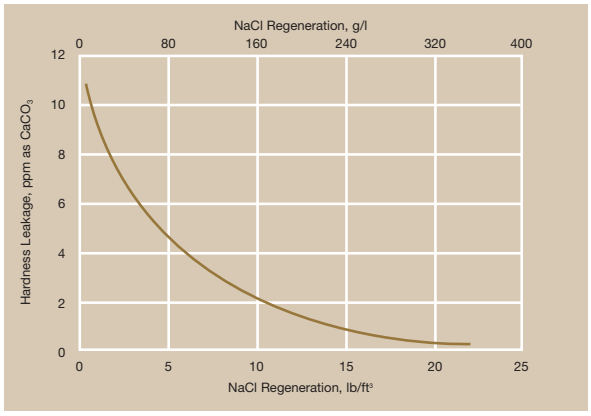
Backwash Expansion



Capacity Information



Hardness Leakage Information



Capacity and Hardness Leakage graphs are shown assuming a service flow of 4 gpm/ft³ (32 l/h/l) and total dissolved solids of 400 ppm and 20 grains of total hardness. The hardness leakage will increase and the capacity will decrease with increasing total dissolved solids and total hardness.

Product Packaging



25 lit. polyethylene valve bags,
48 bags per pallet



Polypropylene FIBCs
(big bags), 1000 lit.



NOTICE Jacobi Carbons reserves the right to change product specifications without prior notification. The information contained in this datasheet is intended to assist a customer in the evaluation and selection of products supplied by Jacobi Carbons. The customer is responsible for determining whether products and the information contained in this document are appropriate for the customer's use. Jacobi Carbons assumes no obligation or liability for the usage of the information in this datasheet, no guarantees or warranties, expressed or implied, are provided. Jacobi Carbons disclaims responsibility and the user must accept full responsibility for performance of systems based on this data.
CAUTION Strong oxidizing agents such as nitric acid can react violently with ion exchange resins and cause explosive type reactions. Before using strong oxidants, consult sources knowledgeable in the handling of these materials.

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Jacobi CARBONS

RX-KW8-G-EN

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