

# Resinex™ K-8 H

## Strong acid cation exchange resin

**Resinex™ K-8 H** is a strongly acidic gel-type cation exchange resin. The crosslinked, polystyrene divinylbenzene matrix provides excellent resistance to physical breakdown. The high capacity achieved in demineralisation makes it suitable for most standard industrial water treatment applications. The optimized consumption of regenerant makes the **Resinex™ K-8 H** a highly economical product to use in high quality process water treatment. **Resinex™ K-8 H** is available in different particle sizes specially adapted to counter-current and mixed bed applications.

### 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	H <sup>+</sup>
Bead size	16x40 US mesh (0.42-1.25 mm)
Effective size	0.45 - 0.55 mm
Bulk density	approx. 780 kg/m <sup>3</sup>
Real density	1.28 g/cm <sup>3</sup>
Water retention	45-48%
Total capacity	2.00 eq/l min.
Volume change Na <sup>+</sup> → H <sup>+</sup>	8% max.
Stability, temperature	120°C max.
Stability, pH	0-14

### Standard Design Conditions

Bed depth	>700 mm
Service flow rate	8-40 l/h/l
Backwash expansion	50-75%

### Key Features and Benefits

- **European AP97(1) Approved**  
Meets European Council Resolution AP97(1) for use of ion exchange resins in the processing of food products
- **High Integrity Beads**  
Excellent resistance to mechanical degradation ensures low pressure drop
- **Extended Operating Capacity**  
Economical advantage
- **Optimized for Counter-Current Flow**  
Compatible with all modern systems
- **Very High Total Capacity**

### Typical Applications

- Industrial decationisation
- Demineralisation and polishing when used in combination with Resinex™ A-4

### Standard Packaging

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



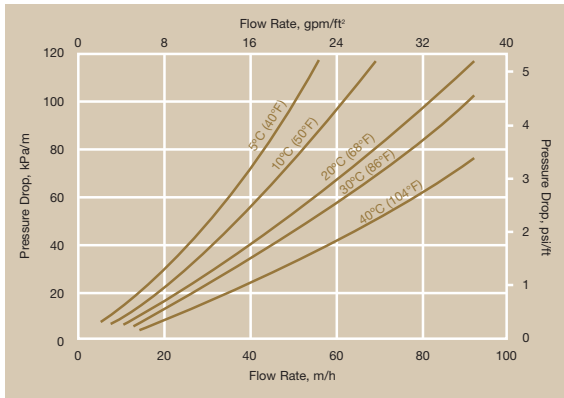
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**Resinex™**  
Ion Exchange Resin

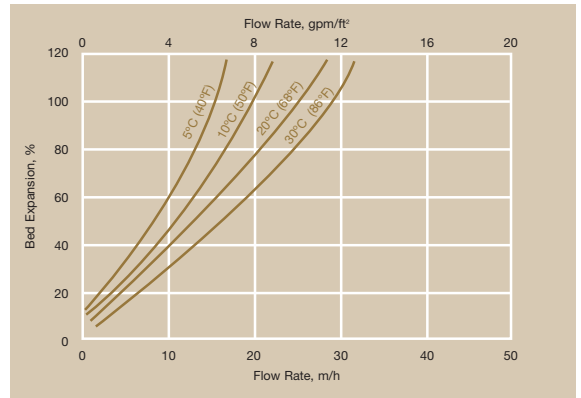
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### Pressure Drop



### Backwash Expansion



### Standard Regeneration Parameters

### Co-Flow

### Counter-Flow

Concentration	8% HCl	5% HCl
Level	60-150g	45-70 g/l
Flow rate regenerant	4-6 BV/h	5-8 BV/h
Contact time regeneration	30-60 min.	20-40 min.
Flow rate slow rinse	5-20 BV/h	5-20 BV/h
Slow rinse water required	8-15 BV	3-6 BV
Flow rate fast rinse	20-40 BV/h	20-40 BV/h
Fast rinse water required	8-15 BV	3-6 BV

### 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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