Resinex™
Ion Exchange Resin

Resinex™ K-10 H

Strong acidic cation exchange resin

Resinex™ K-10 H is a high purity, premium grade, strongly acidic cation exchange resin to provide an outstanding resistance to physical breakdown and oxidation. The high capacity achieved in demineralisation makes it suitable for most standard industrial water treatment applications. Together with optimisation of regenerant consumption, Resinex™ K-10 H will allow you to obtain a high quality process water in economical manner.
The selected bead size distribution is especially adapted for all modern counter-current systems.

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^+
Bead size	0.42 - 1.25 mm
Uniformity coefficient	1.6 max.
Bulk density, as shipped	810 kg/m^3
Real density	1.31 g/cm^3
Water retention	45 - 48%
Total capacity (Na^+ form)	2.10 eq/l min.
Volume change Na^+ –> H^+	10% max.
Stability, temperature	120°C max.
Stability, pH	0 - 14

Standard Design Conditions

Bed depth	> 700 mm
Service flow rate	8 - 55 BV/h
Backwash expansion	50 - 75%

Key Features and Benefits

- High Integrity Beads
  Excellent resistance to mechanical degradation ensures an extended life-time
- Extended Operating Capacity
- High Crosslinked
  Higher mechanical and chemical resistance
- Selected Bead Size
  Lower pressure drop and regenerant consumption

Typical Applications

- Demineralisation when used in combination with Resinex™ A-7
- Condensate treatment when used in combination with Resinex™ A-7

Standard Packaging

- 25 lit. PE valve bag
- 1000 litre big bag

This product has been tested and certified to NSF/ANSI Standard 44 for materials safety only.

A minimum flow of 0.39 gpm per cubic foot of media is required.

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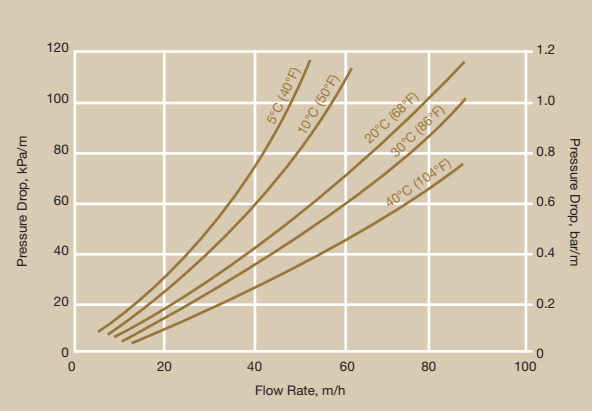
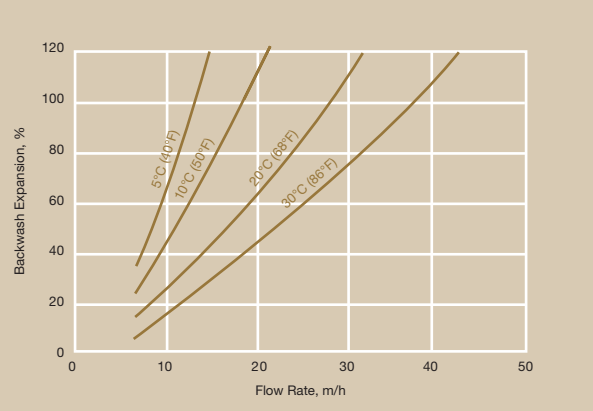
Pressure Drop



Backwash Expansion



Standard Regeneration Parameters	Co-Flow	Counter-Flow
Concentration	8% HCl	5% HCl
Level	60-150 g/l	45-70 g/l
Flow rate regenerant	4-6 BV/h	5-8 BV/h
Contact time regenerant	30-60 min.	20-40 min.
Flow rate slow rinse	2-20 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 Packing

25 lit. polyethylene valve bag
48 bags per pallet

Polypropylene FIBCs
(big bag), 1.000 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 customers 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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