Resinex™
Ion Exchange Resin

Resinex™ KP MB H

Strong acid cation exchange resin

Resinex™ KP MB H is a high purity, premium grade, strongly acid macroporous-type cation exchange resin. The macroporous crosslinked matrix offers a very high resistance to osmotic shock, attrition and organic fouling. Its remarkable physical stability makes it suitable for industrial applications at very high velocity such as treatment of condensate.
The selected bead distribution of Resinex™ KP MB H is especially adapted for mixed bed systems.

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	macroporous, opaque, spherical beads
Functional group	Sulfonic acid
Whole bead count	95% min.
Ionic form, as shipped	H^+
Bead size	(≥90%) 0.70 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	800 kg/m^3
Real density	1.26 g/cm^3
Water retention	45 - 55%
Total capacity (Na^+ form)	1.80 eq/l min.
Volume change H^+ –> Na^+	-8% 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 low pressure drop
- **Excellent Resistance To Organic Fouling**
  Removable organics
- **High Resistance To Osmotic Shock**
  Extended lifetime and very low number of broken beads
- **Very High Total Capacity**
  Economical advantage
- **Selected Bead Size**
  Lower pressure drop and regenerant consumption combined with a perfect separation in mixed bed applications

Typical Applications

- Decationisation in industrial water treatment, especially in presence of high organic loadings
- Demineralisation and polishing mixed bed when used in combination with Resinex™ AP MB

Standard Packaging

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

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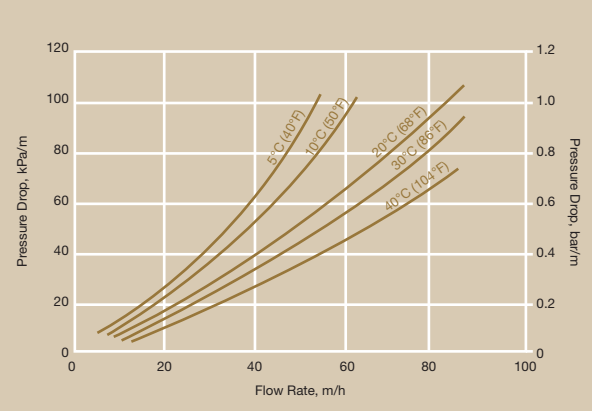
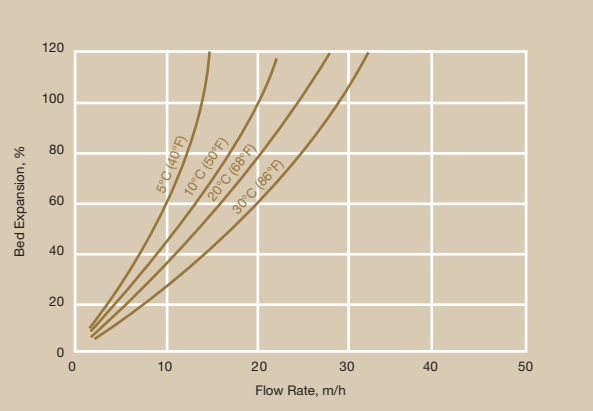
Pressure Drop



Backwash Expansion



Standard Regeneration Parameters	Co-Flow	Counter-Flow
Concentration	5% HCl	5% HCl
Level	60-120 g/l	50-80 g/l
Flow rate regenerant	4-6 BV/h	6-8 BV/h
Contact time regenerant	30-60 min.	20-40 min.
Flow rate slow rinse	4-6 BV/h	6-8 BV/h
Slow rinse water required	2-4 BV	2 BV
Flow rate fast rinse	10-30 BV/h	10-30 BV/h
Fast rinse water required	6-10 BV	6-10 BV

Product Packing

25 lit. polyethylene valve bag
48 bags per pallet

Polypropylene FIBCs
(big bag), 1.000 lit.

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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