Resinex™
Ion Exchange Resin

Resinex™ KH UB

Weak acid cation resin

Resinex™ KH UB is a high purity, premium grade, weakly acidic macroporous-type cation exchange resin, with a superior capacity for removal of temporary hardness. The crosslinked, polyacrylic divinylbenzene matrix offers excellent resistance to physical breakage.
The selected bead distribution of Resinex™ KH UB - very close to monodisperse - is especially adapted for all modern counter-current systems (i.e. Schwebebett, UPCORE,..) and mixed bed systems.

Typical Properties

Type	Crosslinked polyacrylic divinylbenzene
Form	macroporous, white to cream, spherical beads
Functional group	Carboxylic acid
Whole bead count	95% min.
Ionic form, as shipped	H^+
Bead size	(≥90%) 0.50 - 0.71 mm
Uniformity coefficient	1.2 max.
Bulk density	770 kg/m^3
Real density	1.17 g/cm^3
Water retention	45 - 50%
Total capacity, as shipped	4.20 eq/l min.
Volume change H^+ –> Ca^{2+}	15% max.
Stability, temperature	100°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
- **Superior Total Capacity**
  Economical advantage
- **High Resistance To Osmotic Shock**
  Extended lifetime and very low number of broken beads

Typical Applications

- Dealkalisation in industrial applications
- Softening of organic product
- Softening of organic product

Standard Packaging

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

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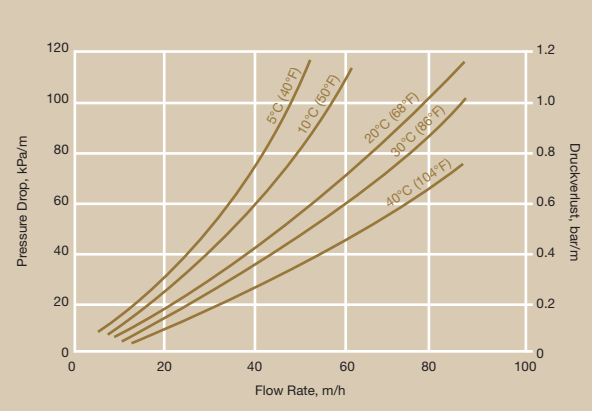
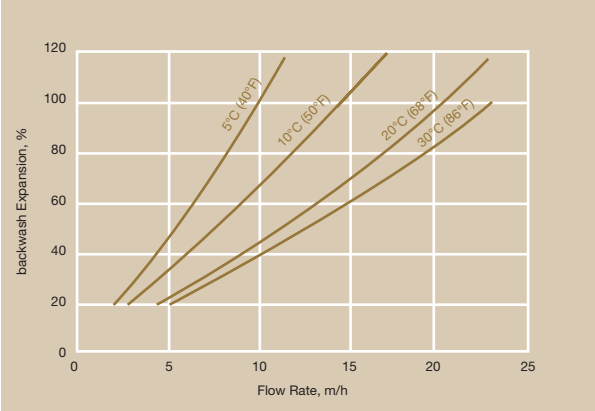
Pressure Drop



Backwash Expansion



Standard regeneration Parameter	HCl	H_2SO_4
Concentration	4-6%	(progressiv) 0.5-0.8%
Level	60-80 g/l	80-100 g/l
Flow rate regenerant	4-10 BV/h	10-20 BV/h
Contact time regeneration	30-60 min.	30-60 min.
Flow rate slow rinse	4-10 BV/h	10-20 BV/h
Slow rinse water required	2 BV	2 BV
Flow rate fast rinse	10-30 BV/h	10-30 BV/h
Fast rinse water required	4-10 BV	4-10 BV

Product Packing

28 lit. polyethylene valve bag
42 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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LENNTECH
info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289

Jacobi
THE CARBON COMPANY