Resinex™
Ion Exchange Resin

Resinex™ KW-H

Weak acid cation resin

Resinex™ KW-H is a high purity, premium grade, weakly acidic macroporous-type cation exchange resin, pretreated with a superior capacity for removal of temporary hardness, especially designed for filter cartridges. The crosslinked, polyacrylic divinylbenzene matrix offers excellent resistance to physical breakage.
Resinex™ KW-H meets the requirements of the European Council ResAP (2004) 3, WRAS BS 6920 and is available in different particle sizes.

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	0.42 - 1.25 mm
Uniformity coefficient	1.6 max.
Bulk density	750 kg/m^3
Real density	1.20 g/cm^3
Water retention	45 - 50%
Total capacity, as shipped	4.20 eq/l min.
Volume change $H^+ \rightarrow Ca^{2+}$	8% max.
Stability, temperature	100°C max.
Stability, pH	0 - 14

Key Features and Benefits

- **High Integrity Beads**
  Excellent resistance to mechanical degradation ensures low pressure drop
- **Low Consumption of Regenerant**
- **European ResAP (2004) 3 Approved**
  Meets European Council Resolution AP (2004) 3 for use of ion exchange resins in processing of food products.
- **WRAS BS 6920 Approved**
  BS 6920 for cold water and hot water up to 85°C

Typical Applications

- Point-of-use filters
- Filter cartridges
- Softening of organic product

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.

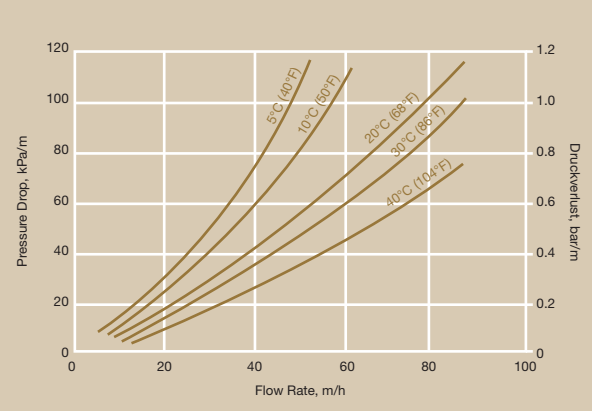
A minimum flow of 0.39 gpm per cubic foot of media is required.

Resinex™
Ion Exchange Resin

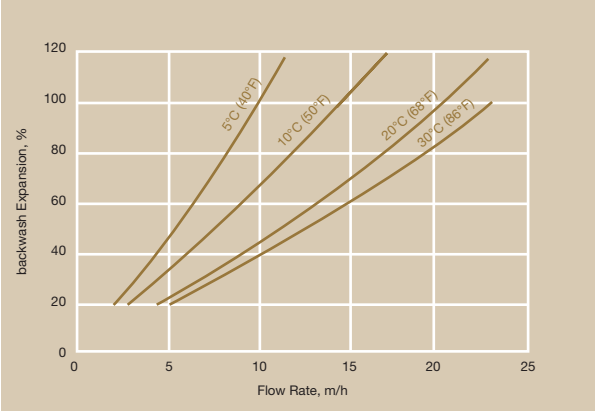
Resinex™ KW-H

Weak acid cation resin

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.

RX-KWH_eng_Rev13_20131209

LENNTECH
info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289

Jacobi
THE CARBON COMPANY