WACMP-HP

Grade: High Purity

Weak acid cation resin, acrylic/DVB macroporous, high-purity, hydrogen form

ResinTech WACMP-HP is a high-purity buffered form macroporous weak acid cation resin. The HP (high purity) designation means it is Gold Seal Certified by the WQA for use in potable water applications. It is pH buffered with sodium ions to avoid producing a low pH when first placed in use. WACMP-HP is intended for all weak acid cation applications and is recommended for cartridge use where potable water certification is required.

FEATURES & BENEFITS

- Macroporous structure
- High regeneration efficiency
- Superior physical stability
- Controlled particle size
- Complies with US FDA regulations

APPLICATIONS

- pH Correction of Acidic Waters
- Drinking Water Purification
- Acid Adsorption
- Lead Removal
- Temporary Hardness Removal

PHYSICAL PROPERTIES

Polymer Matrix	Acrylic/DVB
Polymer Type	Macroporous
Ionic Form (as shipped)	Hydrogen (H^+)
Functional Group	Carboxylic Acid
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	93
Reversible Swelling	30 to 60% (H → Na)
Capacity (meq/mL)	4.00
Moisture Retention (%)	43 to 60
Shipping Weight	45 - 47 lbs/cu.ft. (721 - 753 g/L)
Color	White to Cream
Regenerable	Regenerable

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	212°F (100°C)
Minimum Bed Depth	24 in. (61.0 cm)
Operating pH Range	5.8 to 7.5
Flow Rate	
Working Service	1-5 gpm/cu.ft. (8-40 BV/h)

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

RESINTECH INC.
INNOVATIONS IN ION EXCHANGE

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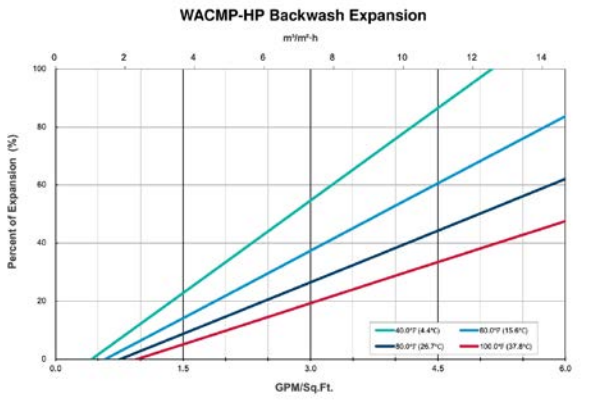
REGENERATION DETAILS

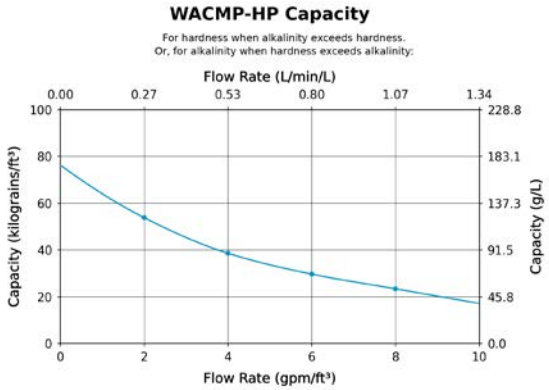
Hydrogen Cycle (HCl)	1 to 5%	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Flow Rate	0.3-1.5 gpm/cu.ft. (2-12 BV/h)	Rinse Flow Rate	Same as service flow
Regenerant Contact Time	> 30 minutes	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)
Displacement Flow Rate	Same as dilution water		

BACKWASH EXPANSION



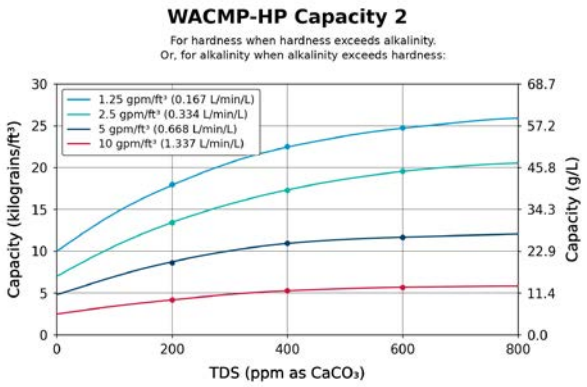
The graph above shows the expansion characteristics of ResinTech WACMP-HP as a function of flow rate at various temperatures.

CAPACITY



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO3, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

CAPACITY 2



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO3, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

SOFTENER AND DEALKALIZER

ResinTech **WACMP-HP** removes hardness from water by neutralizing alkalinity from HCO_3 to CO_2. The carbon dioxide can then be removed in a degassifier. For complete removal of hardness, a strong acid cation type softener is needed. For complete conversion of HCO_3 alkalinity to CO_2, a hydrogen form cation may be needed.

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HIGH TDS SOFTENING

ResinTech **WACMP-HP** can be operated as a softener in the sodium cycle. Selectivity for hardness compared to sodium is between 5 and 10 times higher than conventional softening resins. Regeneration requires acid followed by caustic, salt can not be used. Sodium form weak acid resins can be used to soften high TDS waters up to approximately 50,000 ppm.

METALS REMOVAL

ResinTech **WACMP-HP** has higher selectivity for divalent transition metals as compared to hardness ions.

CERTIFICATIONS

Meets NSF/ANSI/CAN 61

REACH Registered

PACKAGING

Standard

1 cu.ft. Bag | 42 cu.ft. Supersack
25 L bag | 1000 L Supersack

Metric

5 cu.ft. Drum | 7 cu.ft. Drum
140L Drum | 200L Drum

Shipping Weight

45 - 47 lbs/cu.ft. (721 - 753 g/L)

MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

Safety Data Sheets (SDS) are available at resintech.com

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