

PRODUCT SPECIFICATION SHEET

MAGNA WACG-HP

WEAK ACID CATION

ACRYLIC GEL
HYDROGEN FORM

ResinTech WACG-HP is a hydrogen form gel weak acid cation resin. It has exceptionally high capacity and can be regenerated at close to 100% acid efficiency but is limited to use in alkaline waters with pH greater than 7. WACG-HP is intended for hardness removal from waters that contain significant alkalinity and for demineralization where the use of a weak acid cation resin is required.

APPLICATIONS

- Partial Softening
- Partial Alkalinity Removal
- Metal Removal



TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Acrylic Gel
Ionic Form	Hydrogen
Functional Group	Carboxylic Acid
Physical Form	Spherical Beads
Particle Size	16 to 56 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	≤ 1%
Minimum Sphericity	98%
Uniformity Coefficient	1.7
Reversible Swelling	H to Na 80% to 100%
Temp Limit	212°F (100°C)
Capacity (meq/mL)	4.2
Moisture Retention	43% to 60%
Shipping Weight	45 - 47 lbs/ft ³ (721 - 753 g/L)
Color	White to Cream
Regenerability	Yes

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CERTIFICATIONS

- WQA Gold Seal*
- Kosher Certified
- FDA Compliance**

PACKAGING OPTIONS

- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

* Meets NSF/ANSI-61 Standards for Material Safety

** Paragraph 21CFR173.25 of the Food Additives Regulations of the US FDA

Revision 1.3

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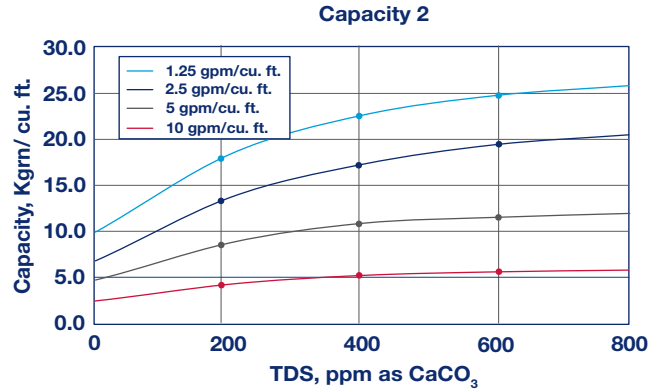
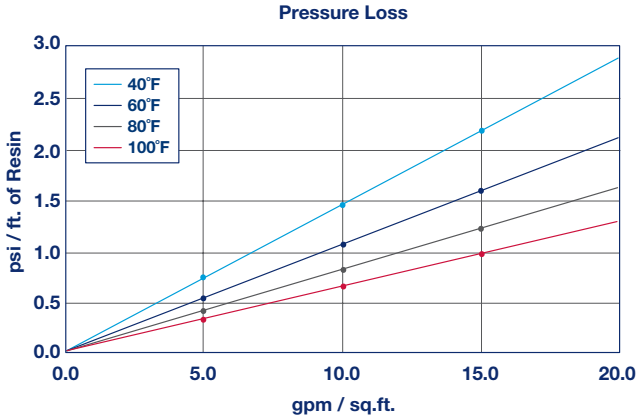


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INNOVATIONS IN ION EXCHANGE

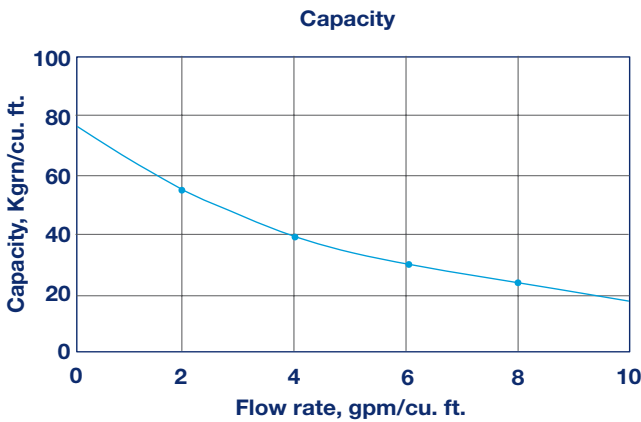
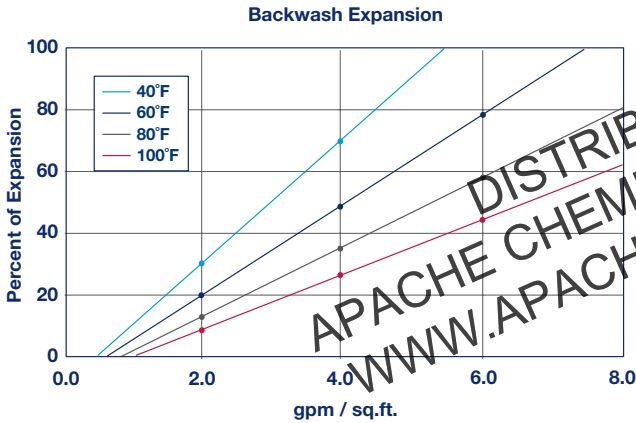
MAGNA WACG-HP

STRONG ACID CATION

ACRYLIC GEL
HYDROGEN FORM



Caes 2: For alkalinity when alkalinity exceed hardness; for hardness when hardness exceeds alkalinity.



Caes 1: For Hardness when alkalinity exceed hardness; for alkalinity when hardness exceeds alkalinity.

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SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	212°F
Hydrogen form	
Minimum bed depth	30 inches
Backwash expansion	25 to 50 percent
Minimum operating pH	>5 SU
Regenerant Concentration	
Hydrogen cycle	1 to 5 percent HCl
Hydrogen cycle	0.7 to 8 percent H ₂ SO ₄ *
Regenerant level	Approx 120% of theoretical
Regenerant flow rate	0.3 to 1.5 gpm/cu.ft.
Regenerant contact time	>30 minutes
Displacement flow rate	Same as dilution water
Displacement volume	10 to 15 gallons/cu.ft.
Rinse flow rate	Same as service flow
Rinse volume	35 to 60 gallons/cu.ft.
Service flow rate	1 to 5 gpm/cu.ft.

* Precipitation of Calcium Sulfate can occur at sulfuric acid concentration's above 1% when the resin is exhausted on hard water.

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums. For operation outside these guidelines, contact ResinTech Technical Support

