

# PRODUCT SPECIFICATION SHEET

## MAGNA WACMP-UPS

WEAK ACID CATION

ACRYLIC MACROPOROUS  
UNIFORM PARTICLE SIZE  
HYDROGEN FORM

ResinTech WACMP-UPS is a uniform particle size hydrogen form macroporous 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. WACMP-UPS 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 Hardness Removal
- Metal Removal
- Uniform Particle Size

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Acrylic Macroporous
Ionic Form	Hydrogen
Functional Group	Carboxylic Acid
Physical Form	Spherical Beads
Particle Size	20 to 40 US Mesh (420 - 840 µm)
% < 50 mesh (300µm)	95%
Minimum Sphericity	95%
Uniformity Coefficient	1.3
Reversible Swelling	H to Na 50% to 60%
Temp Limit	212°F (100°C)
Capacity (meq/mL)	4.0
Moisture Retention	43% to 60%
Shipping Weight	47 - 49 lbs/ft <sup>3</sup> (753 - 785 g/L)
Color	White to Cream
Regenerability	Yes

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APACHE CHEMICALS, CORP., LLC.  
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### CERTIFICATIONS

- Halal Certified
- Kosher Certified
- FDA Compliance\*

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

### PACKAGING OPTIONS

- 500 ml samples
- 1 ft<sup>3</sup> bags
- 1 ft<sup>3</sup> boxes
- 1 ft<sup>3</sup> drums
- 7 ft<sup>3</sup> drums
- 42 ft<sup>3</sup> supersacks

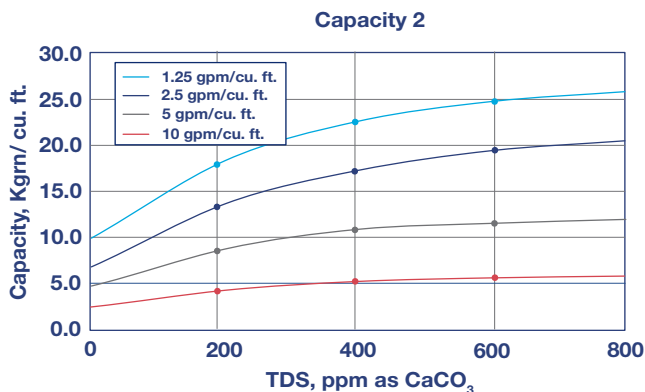
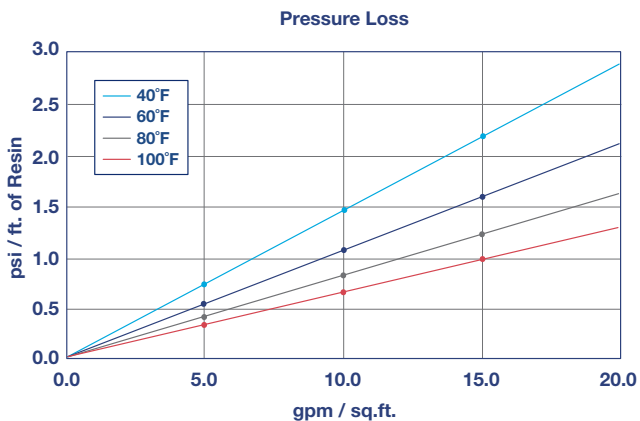
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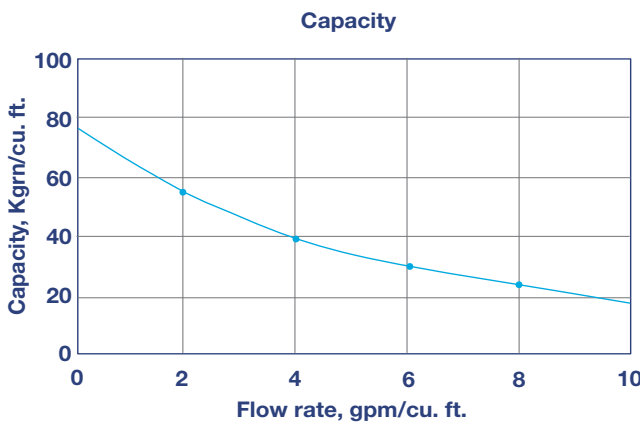
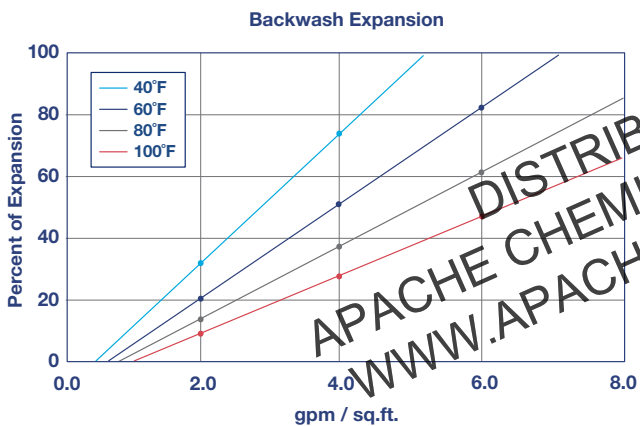
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Caes 2: For alkalinity when alkalinity exceed hardness; for hardness when hardness exceeds alkalinity.



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 <sub>2</sub> SO <sub>4</sub> *
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 volumet	35 to 60 gallons/cu.ft.
Service flow rate	1 to 5 gpm/cu.ft.

\* Precipitation of calcium sulfate can occur at sulfuric acid concentrations 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

