

## Aldex MP Series

# C-800H MP Macroporous Strong Acid Resin Hydrogen Form

Aldex C-800H MP is a **premium grade, high capacity, strongly acidic macroporous cation resin in the hydrogen form**, used in demineralization systems and condensate polishers. Aldex C-800H MP combines high capacity characteristics with the increased thermal and chemical stability versus gellular resins. Aldex C-800H MP is more highly crosslinked than our standard non-solvent resins Aldex C-800H and Aldex C-800x10H.

## Physical Chemical Properties

Resin Composition:	Macroporous polystyrene crosslinked with divinylbenzene
Ionic Form as Shipped:	Hydrogen (H <sup>+</sup> )
Physical Form:	Spherical particles
Moisture Content (H <sup>+</sup> Form):	54 to 59%
Total Capacity (H <sup>+</sup> Form):	1.8 eq/l (Na <sup>+</sup> form)
Odor and Taste:	None
Net Weight (as shipped):	47 lbs per cubic foot
Particle Size:	16 to 40 mesh
Uniform Coefficient	1.7 maximum
Reversible Swelling Na to H:	4%
Specific Gravity (g/cc):	1.18
Shipping Weight:	740 to 775 g/l (46 to 48 lbs/ft <sup>3</sup> )
Temperature Limit (H <sup>+</sup> form):	120°C (250°F)

## Recommended Operating Conditions

Influent pH:	1 to 14
Maximum Temperature:	300 °F
Bed Depth:	Minimum 24"
Service Flow Rate:	2 US GPM per cubic foot
Backwash Flow Rate:	See Fig. 2
Regenerant:	Sodium Chloride (NaCl)
Regenerant Strength:	10%
Regenerant Flow Rate:	0.3 to 1.0 US GPM per cubic foot of resin
Regenerant Dosage Level:	See Fig. 3
Slow Rinse (Displacement) Flow Rate:	0.3 to 1.0 US GPM per cubic foot of resin
Rinse Water Requirements:	25 to 75 US GPM per cubic foot
Service Flow Rate:	2 US GPM per cubic foot
Exchange Capacity:	See Fig. 3

## C-800H MP Features

### Macroporous Structure

The macroporous structure of Aldex C-800H MP make it possible to incorporate a higher level of divinylbenzene into the copolymer matrix than is possible with standard gel type resins. This results in a resin which has greater thermal and chemical stability.

### High Physical Stability

The macroporous structure with high divinylbenzene content and uniform particle size provides greater resistance to bead breakage and oxidative attack.

### Low Pressure Drop

The uniform particle size of 98%+ in the 16 to 40 mesh size range gives Aldex C-800H MP a lower pressure drop while maintaining the superior kinetics of standard mesh resin.

## Safety Information

A material safety data sheet is available for Aldex C-800H MP. Copies can be obtained from Aldex Chemical Co., LTD. Aldex C-800H MP is not a hazardous product and is not WHMIS controlled.

Caution: Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Before using strong oxidizing agents in contact with ion exchange resin, consult sources knowledgeable in the handling of these materials.



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## Pressure Drop

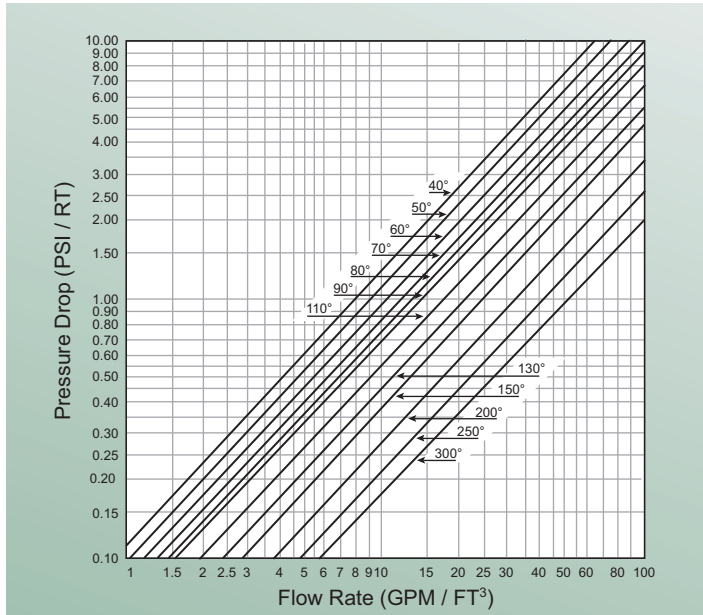


Fig. 1 Pressure Drop vs Flow Rate at various degrees Fahrenheit (F°)

## Capacity Data

Regeneration level lbs NaCl per cubic foot	Capacity kgr as CaCo <sub>3</sub> per cubic foot	Salt efficiency lbs NaCl per kgr removed cubic foot
4	19.0	11.5
6	23.0	12.8
8	25.3	13.6
10	28.1	14.5

Fig. 3 Capacity Data

## Backwash Characteristics

Aldex C-800H MP should be backwashed for at least 10 minutes at a flow rate sufficient to cause 50% to 75% expansion of the resin bed.

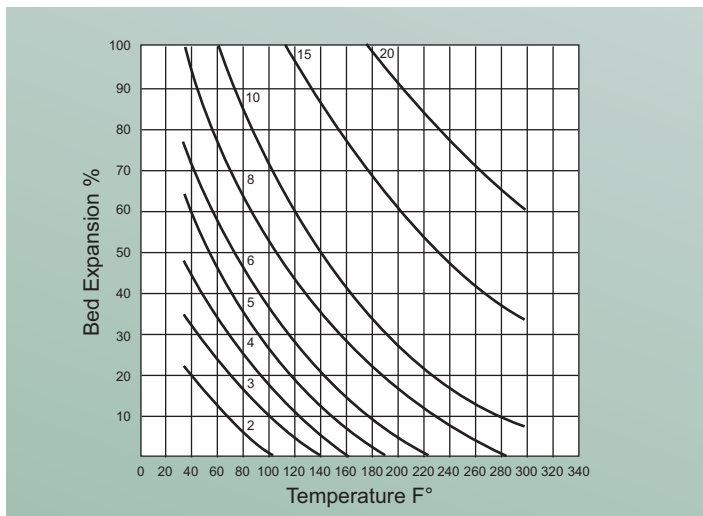


Fig. 2 Hydraulic expansion data parameter flow rate GPM / FT<sup>3</sup>

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