

## Aldex MP Series

# C-800H MP UPS for Sweetener Applications

Aldex C800H MP UPS is a **premium grade, strongly acidic, uniform particle size (UPS) macroporous cation resin** built on a styrene-divinylbenzene matrix. Aldex C800H MP UPS is supplied in the hydrogen form and has been specifically designed to provide high capacity, low rinse requirements and long life when purifying highly viscous streams with a high solids content.

## Physical Chemical Properties

Resin Composition:	Macroporous polystyrene crosslinked with divinylbenzene
Ionic Form as Shipped:	Hydrogen (H+)
Physical Form:	Spherical particles
Moisture Content	
Na+ Form:	42 to 50%
H+ Form:	45 to 53%
Total Capacity	
Na+ Form:	1.8 eq/l
H+ Form:	1.7 eq/l
Odor and Taste:	None
Net Weight (as shipped):	50 lbs per cubic foot
Particle Size:	25 to 40 mesh
Uniform Coefficient	1.3 maximum

## Recommended Operating Conditions

Influent pH:	0 to 14
Maximum Temperature:	300 °F
Bed Depth:	Minimum 36"
Service Flow Rate:	2 US GPM per cubic foot
Backwash Flow Rate:	See Fig. 2
Regenerant:	Hydrochloric Acid (HCl)
Regenerant Strength:	7%
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
Reversible Swelling Na <sup>+</sup> to H <sup>+</sup>	5% maximum

## C-800H MP UPS Features

### Macroporous Structure

The macroporous structure of Aldex C-800H MP UPS 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 stability when exposed to oxidizing conditions such as high temperatures, iron and the presences of oxidizing agents.

### High Physical Stability

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

### Low Pressure Drop

The uniform particle size of 98%+ in the 16-50 mesh size range gives Aldex C-800H MP UPS 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 UPS. Copies can be obtained from Aldex Chemical Co., LTD. Aldex C-800H MP UPS 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

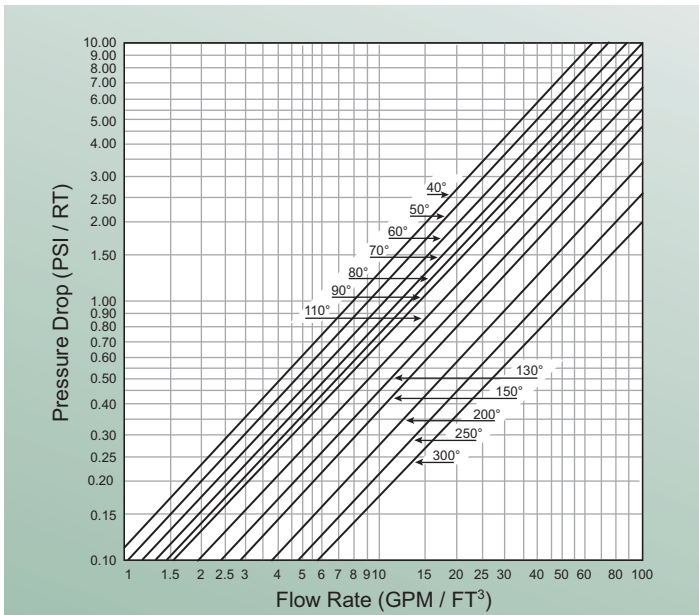


Fig. 1 Pressure Drop vs Flow Rate at various degrees Fahrenheit (F°)

## Capacity Data

Regeneration level lbs HCl per cubic foot	Capacity kgr as CaCo <sub>3</sub> per cubic foot	Influent Water
4	20.5	300 ppm ash 50% Sodium 50% Alkalinity
6	22.0	
8	23.5	
10	24.5	

Fig. 3 Capacity Data

## Backwash Characteristics

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

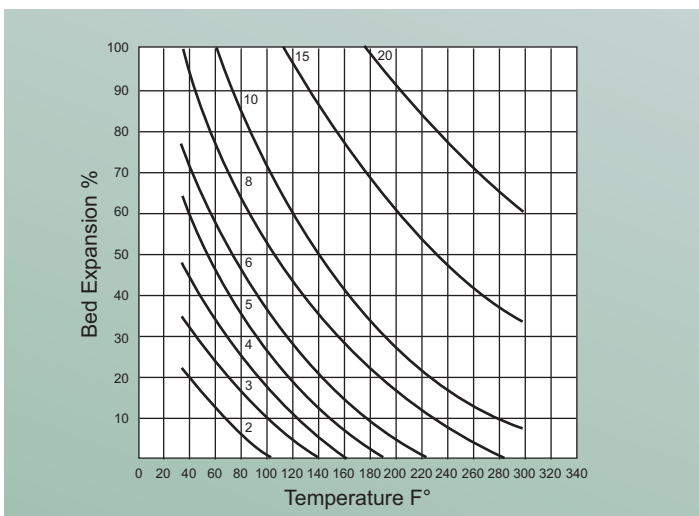


Fig. 2 Hydraulic expansion data parameter flow rate GPM / FT<sup>3</sup>



**Aldex Chemical Company, Ltd.** • 630 Laurent Street • Granby QC Canada J2G 8V1  
450 372 8844 • Fax 450 372 2566 • [info@aldexchemical.com](mailto:info@aldexchemical.com)

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