IC Series Cartridge

Ion exchange resin cartridge

The ion exchange product line includes resin cartridge products for fuel cell applications. These cartridges posses high ion removal capacity ideal for low conductivity heat transfer fluids. These cartridges can be installed in a system operating at 200°F (93°C).

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Series Overview

IC Series ion exchange resin cartridge offered by Dynalene is designed and tested extensively for greater ion removal on our low conductivity heat transfer fluid products. These cartridges can be easily installed in systems operating up to 200°F (93° C). We offer two cartridge models, IC-070 and IC-093 which is designed to operate up to 158°F (70°C) and 200°F (93°C), respectively. Our resin cartridge products, which are currently used in low conductivity cooling applications such as fuel cell and battery cooling, can be custom designed for your systems.

Features

- Wide range operational temperature
- High capacity media
- Performance tested for a long operating cycle
- Inhibitor retaining capacity
- Longer life
- Compatible with glycol based heat transfer fluid
- Resistant to physical and chemical deterioration
- Spin welded construction
- Easy to install
- Easy to custom design

Applications

- Fuel cell cooling
- Battery cooling
- Electronics cooling
- Computer cooling
- Laser cooling
- All application that requires low electrical conductivity of the fluid over the time of operation

Specifications

Properties	Value
Max. operating temperature	IC-070: 158°F (70°C) IC-093: 200°F (93°C)
Material of construction	Polypropylene
Max. operating pressure	30 psi
Orientation	Vertical
Media	Ion exchange resin

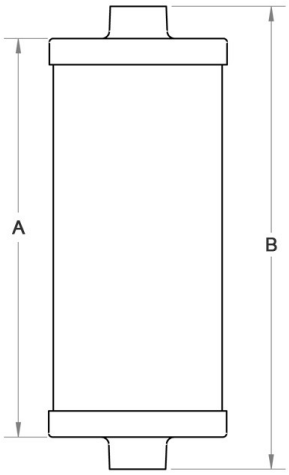
Exchange capacity	
Product number	**Capacity (meq)**
IC-070-04	147
IC-093-04	203
IC-070-06	190
IC-093-06	262
IC-093-08	1273
IC-093-16	2865
IC-093-24	4377

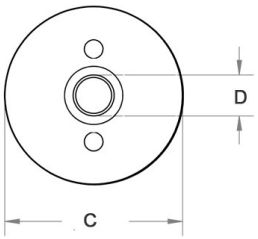
Customization

Along with the standard products, we can also custom design cartridges that meet your requirements. Contact us today at 610.262.9686 or email at info@dynalene.com and discuss your application with Dynalene's cartridge experts today.

IC Series Cartridge

Design and construction





Material of Construction	Polypropylene
Maximum Pressure	30 psi
Media	Ion exchange resin
Orientation	Vertical

IC Series cartridge dimensions, weight and flow rate compatibility

Size	A (inch)	B (inch)	C (inch)	D (FNPT)	Weight (lbs)	Max flow rate (GPM)
04	4.5	5.3	2.38	0.25	0.46	1*
06	5.5	6.3	2.38	0.25	0.65	1.3*
08	8	8.8	2.38	0.25	2.95	1.2**
14	14	14.8	4.38	0.50	5.25	2.3*
16	16	16.8	4.38	0.50	7.25	2.5**
24	24	24.8	6	0.75	16.50	3.4**
36	36	36.8	6	0.75	26.04	3.6**

**Max flow rate at 5 PSI max operating pressure at* 200°F (93°C)
***Max flow rate at 8 PSI max operating pressure at* 200°F (93°C)

Ordering configuration

Model	Temperature	Size
IC	70	06

Sample order configuration is for a 'IC' cartridge compatible for a max operating temperature '70°C (158°F)' and size 6

** For dimensions, weight and flow rate compatibility of different sized cartridge, please refer the table above*

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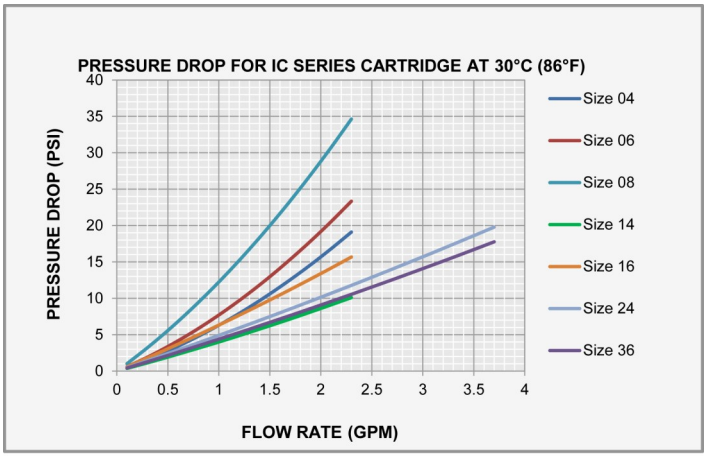
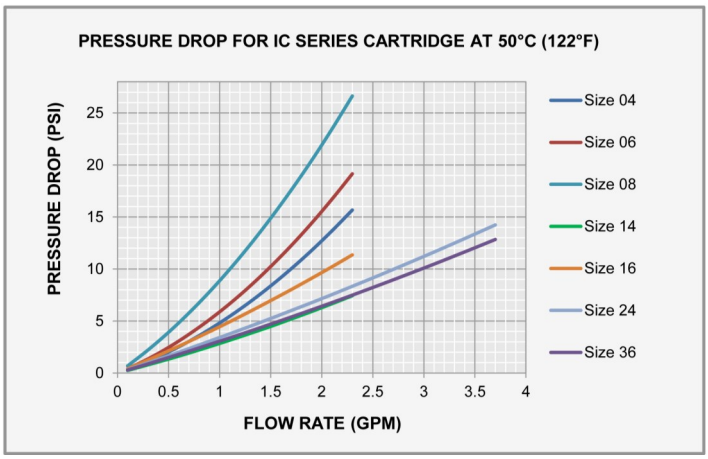
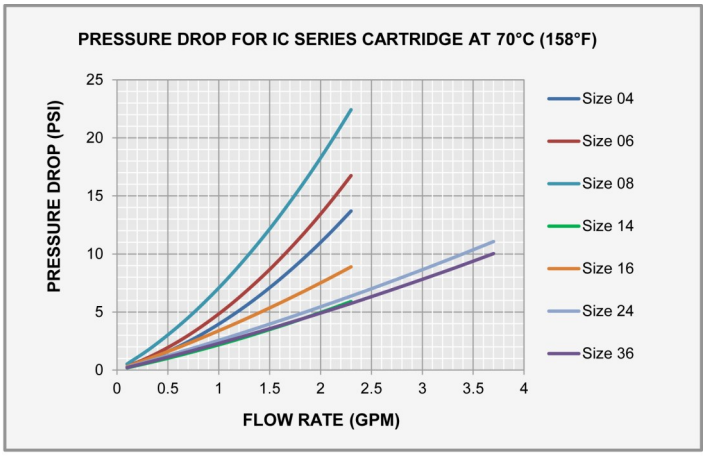
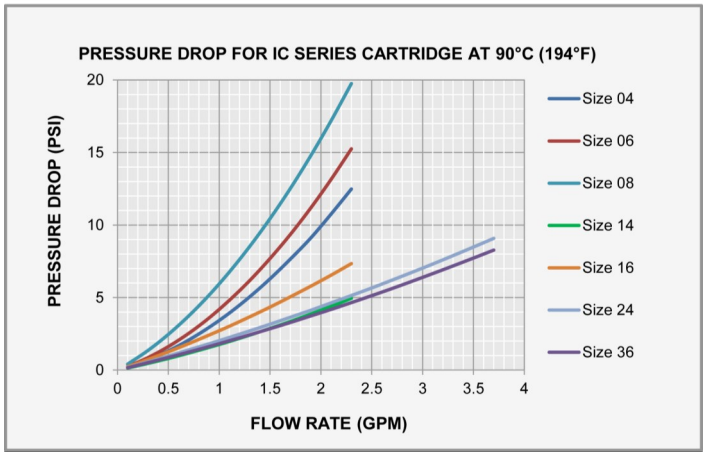
Hydraulic Properties









Note: Pressure drop was determined for deionized water.

Contact Information

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