

REACT – LIQUID PHASE

DSR A 8x40, DSR C 8x30, RX A PH

Granular Activated Carbon

Applications



Industrial Wastewater



Ground Water



Surface Water



Remediation Water Treatment



Reactivation

DSR A, DSR C and RX A PH are effective in a wide range of applications. Some typical applications are:

- Point source treatment to remove undesirable chemicals from water sources
- Groundwater remediation applications
- Pump tests
- Dewatering/construction projects
- Biological waste treatment systems, pretreatment or polishing

Description

Liquid phase reactivated carbon is available in two grades, DSR A and DSR C, and is designed for the removal of organic contaminants from industrial wastewater, process water, groundwater remediation and other non potable waters. The carbon is manufactured by the reactivation of previously used granular activated carbon to produce a high density, high surface area and durable product capable of withstanding repeated cycles of use and reactivation.

For situations where the pH of effluent or backwash water is a critical parameter, whether the limitation is due to process or permit restrictions, Calgon Carbon offers RX A PH - a pH stabilized version of DSR A. RX A PH is specifically designed to alleviate the pH rise commonly found on startup of fresh carbon beds, which may exceed acceptable water quality parameters and cause a significant loss in production. RX A PH is applicable in these situations where the influent pH is greater than 3.

DSR A, DSR C and RX A PH are effective in a wide range of applications providing reliable removal of dissolved organic compounds. They are screened prior to packaging to ensure low pressure drop. These products are not intended for use in food grade or potable systems.

Features / Benefits

- Manufactured from selected sources of previously used granular activated carbons
- Reactivated/recycled product
- High surface area/pore structure
- Product is screened prior to packaging
- Strongly adsorbing pore structure for a broad range of contaminants and concentrations
- Economical alternative to virgin carbon
- Screened for less fines and lower pressure drop; minimize backwashing
- Propagates the cycle of responsible resource utilization

Specifications

DSR A 8x40 DSR C 8x30

	DSR A 8x40	DSR C 8x30
Iodine Number, mg/g	750 (min)	800 (min)
Moisture (as packaged), wt%	2 (max)	2 (max)
Density (Apparent), g/cc	0.60 (max)	0.60 (max)
< 30 US Mesh (PAN), wt%	—	5 (max)
< 40 US Mesh (PAN), wt%	5 (max)	—
Modified Contact pH	8.7 (max)	—
[Product is RX A PH]		

Safety Message

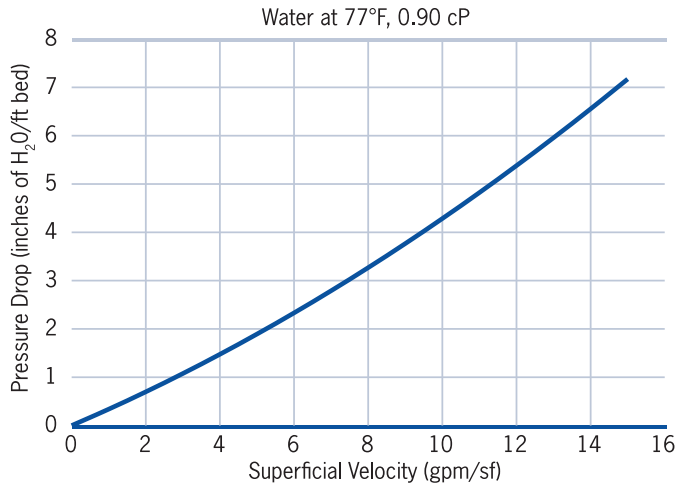
Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

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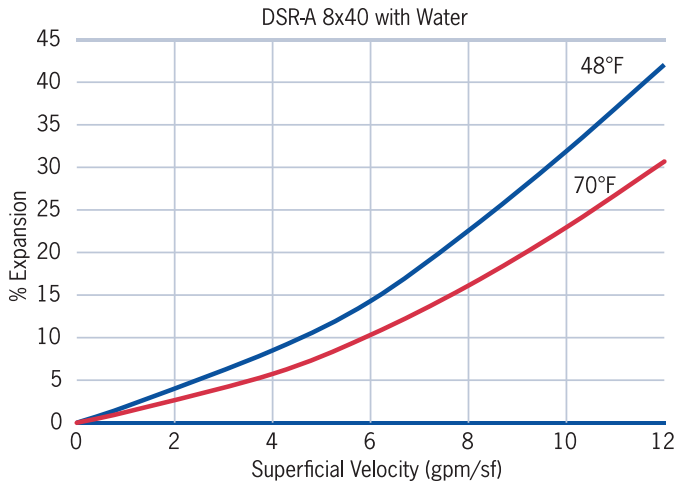
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Typical Pressure Drop (DSR-A 8x40)

Based on a backwashed and segregated bed

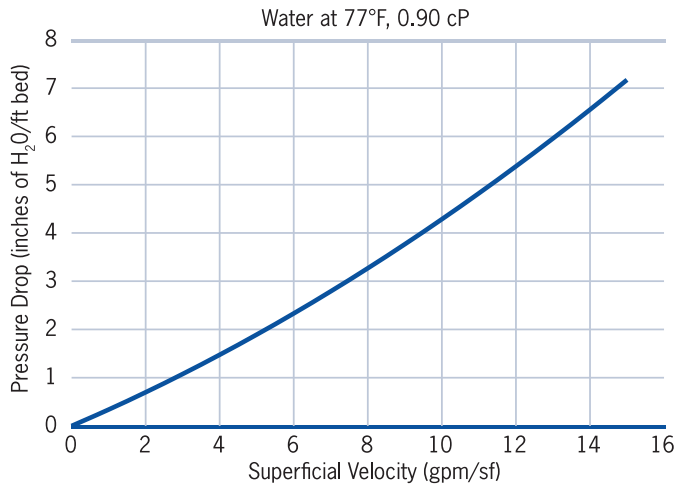


Bed Expansion During Backwash

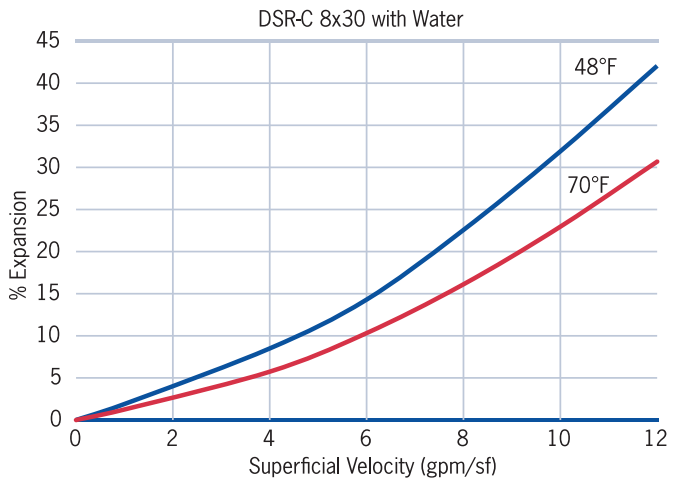


Typical Pressure Drop (DSR-C 8x30)

Based on a backwashed and segregated bed



Bed Expansion During Backwash



Design Considerations

The design of an activated carbon adsorption system is dependent on the adsorbate type, influent concentration, temperature, flow rate, performance objective, and other factors. Calgon Carbon has extensive experience designing custom adsorption systems and can help evaluate the suitability of DSR A, DSR C or RX A PH to satisfy your project specific needs. In addition to the supply of activated carbon, Calgon Carbon offers a complete line of standardized, pre-engineered and custom designed adsorption systems.



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