Service Carbon - Canada

Catalytic Carbon Tanks

Catalytic Carbon is an effective way to ensure the removal of chloramines and hydrogen sulfide from potable waters. Our portable exchange units contain a liquid phase virgin carbon which exhibits enhanced catalytic functionality. No reactivated carbon is ever used in Mar Cor Purification’s service carbon units.

Quality Control of the entire process ensures optimal performance of our Catalytic Carbon units, including media selection, product inspection, documented process controls, and tank traceability. Only carbon media of the highest quality is used so that water quality will not be compromised.

Customized Systems allow for greater flexibility in order to achieve the necessary product water quality. We offer flexibility using Service Carbon in combination with Service Deionization (SDI) systems and provide a wide variety of replacement parts; filter cartridges, membranes, and other accessories. We also offer maintenance service contracts.

Operating Parameters

Recommended Maximum Operating
Pressure & Temperature
0.25 - 3.6 ft³ 60 psi / 38°C
Turbidity
5 NTU
Colour
5 units
Organics
3 ppm
Manganese and Iron
0.3 ppm

Tank Specifications

Construction
Fiberglass
Head
Polyethylene
Internals
Polyethylene/PVC
Fittings
Quick Connect
Media
Acid Washed Carbon, 12x40 mesh, iodine # >900

Typical Applications

• General Industry
• Hemodialysis
• Laboratory
• Microelectronics
• Rinsing
• Pharmaceutical / Biotech

Accessories Available

• Pre and post filters
• Sample ports
• Pressure regulators
• Water meters
• Pressure gauges
• Ultraviolet lights

Specifications

• Iodine Number 900mg/g (min)
• Acid soluble Iron by weight 0.01% (max)
• Moisture, as packed by weight 3%(max)
• Abrasion Number 75 (min)
• Extractable pH 5-8
• Screen size by weight, (US sieve series)
  • On 12 mesh 5.0% (max)
  • Through 40 mesh 4.0% (max)
Technical Data

Product Specifications

Service Exchange Carbon Tanks Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Max. Flow Rate USgpm (lpm)</th>
<th>Carbon Volume (ft³)</th>
<th>Dimensions W x H (in)</th>
<th>Weight (Wet) lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>350CCRF</td>
<td>0.75 (2.8)</td>
<td>0.2</td>
<td>6 x 20</td>
<td>18 (8.2)</td>
</tr>
<tr>
<td>350CCR</td>
<td>2 (7.6)</td>
<td>0.2</td>
<td>6 x 23</td>
<td>23 (10.4)</td>
</tr>
<tr>
<td>360CCRF</td>
<td>0.75 (2.8)</td>
<td>0.4</td>
<td>6 x 37</td>
<td>31 (14.1)</td>
</tr>
<tr>
<td>360CCR</td>
<td>3 (11.4)</td>
<td>0.4</td>
<td>6 x 39</td>
<td>36 (16.3)</td>
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<tr>
<td>300CCRF</td>
<td>0.75 (2.8)</td>
<td>1</td>
<td>8 x 46</td>
<td>66 (29.9)</td>
</tr>
<tr>
<td>300CCR</td>
<td>5 (18.9)</td>
<td>1</td>
<td>8 x 48</td>
<td>71 (32.2)</td>
</tr>
<tr>
<td>420CCR</td>
<td>10 (37.9)</td>
<td>2</td>
<td>12 x 46</td>
<td>123 (55.8)</td>
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<tr>
<td>520CCR</td>
<td>15 (56.8)</td>
<td>3</td>
<td>14 x 50</td>
<td>202 (91.6)</td>
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</tbody>
</table>

Note: All weights and dimensions are approximate. Higher flow rates can be obtained with parallel configurations. The F digit in our model numbers refers to a flat top design required for some unique applications.

Features
- Catalytic activity
- Not impregnated
- Improved trace organic captivity
- High Hardness
- Works at low oxidant levels
- Simple equipment design
- Reduced carbon requirements
- Enhanced performance
- Low water soluble ash content

Benefits
- Smaller system size; low capital requirements
- No safety concerns with exotherms or toxicity
- More capacity per unit volume; low use rates
- Reduced lines and handling costs
- Wide applicability; can eliminate chemical addition
- Reliable; handles spikes in concentration; no metering of chemicals
- Reduces operating costs
- Achieves greater degree of contaminant removal at reduced costs
- Ideal for certification under ANSI/NSF test protocols
- Reduced leachable metals related to standard activated carbon

Installation Considerations
- System operates on tap pressure, within a pressure range of 25-60 psi.
- Higher feed pressures must be reduced with both a pressure regulating valve and a pressure relief mechanism.
- The system must be installed on a firm, level surface.
- A floor drain is recommended.
- Accessories may require electrical connections.

No User Maintenance
Mar Cor Purification assumes responsibility for the timely exchange of exhausted catalytic carbon tanks. Specially designed flexible hoses with quick connect fittings ensure minimum downtime. Service locations in Toronto and Montreal are available to provide 24/7 response service.

Hemodialysis
For dialysis Mar Cor always suggest that 2 carbons sized for 5 minutes of EBCT each are used and that daily samples are taken from a sample valve located in between the 2 tanks. EBCT = VGAC x 7.48 flow rate in USGPM.

For More Information
Contact one of our application specialists in Canada at (800) 268-5035, or visit www.mcpur.com.