Introduction

The new ASTM D6751 Cold Soak Filtration test is leaving many biodiesel producers and consumers “out in the cold”. In response, Schroeder Biofuels is proud to present ColdClear™, a new proprietary, patent pending, multi-stage separation technology designed specifically to ensure that biodiesel products conform to this ASTM standard for cold flow properties. The ColdClear™ system consists of a three-stage bank of housings using a combination of filtration and adsorption principles to capture compounds that could cause plugging or crystallization in biodiesel fluids. Notably, ColdClear™ is the premiere multi-stage treatment system for solving the cold soak filtration dilemma in B100 biodiesel and biodiesel blends in a single pass while resulting in a negligible yield loss.

Features and Benefits

- ColdClear™ is a three stage system with all housings mounted in series on a single skid
- The first stage serves as a pre-filter and captures solid particulates down to three microns using high efficiency Excellement® cartridges
- Stages 2 and 3 utilize cartridges that combine adsorption technologies with the proven effectiveness of Schroeder’s High efficiency Excellement® synthetic media
- The standard ColdClear™ system is equipped with 3” NPT or 3” ANSI 150# flange ports and is designed to handle a maximum flow of 60 gpm for an estimated 160,000 gallons
- Multiple units can be employed to meet higher flow requirements
- The ColdClear™ system can be easily integrated into existing plant piping environments
- If multiple units are required, Schroeder Fuels Filtration offers a range of flow & system monitoring options to ensure proper operation
- The essence of the ColdClear™ technology is the removal of crystallization precursors from the diesel, biodiesel or biodiesel blends. Therefore knowing the exact flow rate of your system is essential for the ColdClear™ system to be properly sized and configured for specific application

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>Up to 60 gal/min (225 L/min)</td>
</tr>
<tr>
<td>Max Operating Pressure</td>
<td>150 psi (10.3 bar)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>70°F optimal (40°F to 100°F)</td>
</tr>
<tr>
<td>Pod Construction</td>
<td>Steel</td>
</tr>
<tr>
<td>Cartridge Type</td>
<td>BCC39QPRE &amp; BCC39QPOL</td>
</tr>
</tbody>
</table>

ColdClear™ is only available through the Schroeder Fuel Filtration network of authorized distributors and representatives.
Typical Applications

- In-plant treatment of biodiesel (B100) conform to ASTM standards prior to blending or shipment
- In-plant treatment of biodiesel blends (ex. B5, B10, etc) to ensure blended biodiesel meets or exceeds cold flow specifications
- For use in diesel fuel storage and distribution systems where B100 or biodiesel blends are stored and distributed to ensure shipped blends conform to ASTM specifications
- Large fleet terminals that have on-site diesel (and biodiesel blend) storage to ensure tight adherence to cold flow standards
- Pre-treatment of fats and oils prior to processing

Ordering Information

How to Build a Valid Model number for a Schroeder BCC1200:

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCC1200</td>
<td></td>
<td></td>
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</table>

Example: **NOTE: One option per box**

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCC1200</td>
<td>V</td>
<td>P48</td>
<td>P48</td>
<td>RD5</td>
<td>UU</td>
</tr>
</tbody>
</table>

Example: BCC1200VP48P48RD5UU

Replacement Cartridges

<table>
<thead>
<tr>
<th>Stage 1 Cartridge</th>
<th>BCC39QPRE</th>
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</thead>
<tbody>
<tr>
<td>Stage 2 &amp; 3 Cartridges</td>
<td>BCC39QPOL</td>
</tr>
</tbody>
</table>

Outlet Porting

- P48 = 3” NPT
- A48 = 3” ANSI
- 150# Flange

Inlet Porting

- P48 = 3” NPT
- A48 = 3” ANSI
- 150# Flange

Stage 1 Indicator

- Omit = None
- RD5 = Visual Pop-up
- DPG1 = Differential pressure gauge
- RMS10 = Electrical w/ DIN connector (male end only)

Test Points

- Omit = None
- UU = Test points in each stage