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 75 gpm for an estimated 200,000 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>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Flow</td>
<td>Up to 75 gal/min (280 L/min)</td>
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<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>
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<tr>
<td>Pod Construction</td>
<td>Steel</td>
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</tbody>
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ColdClear™ is only available through the Schroeder Fuel Filtration network of authorized distributors and representatives.
**Typical Applications**

- In-plant treatment of biodiesel (B100) prior to 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 BCC1500:**

- **BOX 1**
  - Model Code: BCC1500
  - V = Viton

- **BOX 2**
  - Seals: V = Viton

- **BOX 3**
  - Inlet Porting: P48 = 3” NPT A48 = 3” ANSI 150# Flange

- **BOX 4**
  - Outlet Porting: P48 = 3” NPT A48 = 3” ANSI 150# Flange

- **BOX 5**
  - Stage 1 Indicator:
    - Omit = None
    - RD5 = Visual Pop-up
    - DPG1 = Differential pressure gauge
    - RMS10 = Electrical w/ DIN connector (male end only)

- **BOX 6**
  - Test Points:
    - Omit = None
    - UU = Test points in each stage

**Replacement Cartridges**

- Stage 1 Cartridge: BCC39QPRE
- Stage 2 & 3 Cartridges: BCC39QPOL