### On-Board Diesel Fuel Coalescing Filter

**Application Introduction:**
The Reason for Better Engine Filtration

Mobile machines and commercial vehicles are subject to the toughest working conditions. To ensure smooth running of vehicles, and to protect both the engine and the drive system from damage, optimum diesel fuel conditioning is particularly important. Schroeder Fuel Filtration On-Board Diesel Coalescing filter offers a modern cartridge filter system design available in two configurations, in order to protect equipment operators from failures, breakdowns and expensive service interventions.

### Features and Benefits
- Manual or Fully Automatic water drain
- Optional fuel pre-heater and Water-In-Fuel (WIF) sensor
- Small envelope size offers greater flexibility in mounting locations
- Low investment cost due to economical design
- Long service life of the element yields low operating costs
- Easy installation due to various porting configurations
- Easy adaption to the on-board power supply
- Unsurpassed water removal for ULSD

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flow Rating:</strong></td>
<td>up to 476 gph (up to 1800 lph)</td>
</tr>
<tr>
<td><strong>Operating Pressure:</strong></td>
<td>&lt;14.5 psia, (&lt;1 bar absolute) suction side application</td>
</tr>
<tr>
<td><strong>Temperature Range:</strong></td>
<td>BC: -40°F to 194°F (-40°C to 90°C)</td>
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<tr>
<td></td>
<td>HT: -4°F to 194°F (-20°C to 90°C)</td>
</tr>
<tr>
<td></td>
<td>*for extended ranges, contact factory</td>
</tr>
<tr>
<td><strong>Nominal Voltage:</strong></td>
<td>24V DC (12V DC is optional for heater or water sensor)</td>
</tr>
<tr>
<td><strong>Rated Power Fuel Preheating:</strong></td>
<td>300W</td>
</tr>
<tr>
<td><strong>Weight of incl. Element:</strong></td>
<td>340 BC: 5.1 lbs (2.3 kg)</td>
</tr>
<tr>
<td></td>
<td>600 BC: 6.8 lbs (3.1 kg)</td>
</tr>
<tr>
<td></td>
<td>600 HT: 9.4 lbs (4.25 kg)</td>
</tr>
<tr>
<td></td>
<td>*other models available upon request</td>
</tr>
<tr>
<td><strong>Water Separation Efficiency:</strong></td>
<td>&gt;95% to ISO CD 16332</td>
</tr>
<tr>
<td><strong>Porting Thread:</strong></td>
<td>340 BC: M22x1.5</td>
</tr>
<tr>
<td></td>
<td>600 BC: M27x2.0, SAE -12 ORB (optional)</td>
</tr>
<tr>
<td></td>
<td>600 HT: G 3/4&quot; (BSPP)</td>
</tr>
</tbody>
</table>
On-Board Diesel Fuel Coalescing Filter

HDP KF 1
340 BC 1
- Manual
Water Drain
Version

HDP KF 1
600 BC 1
- Manual
Water Drain
Version

HDP KF 1
600 HT 1
- Automatic
Water Drain
Version

Metric dimensions in ( ).
Dimensions shown are inches (millimeters) for general information and overall envelope size only.
For complete dimensions please contact Schroeder Industries to request a certified print.
On-Board Diesel Fuel Coalescing Filter

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### Particulate Element Performance Information

<table>
<thead>
<tr>
<th>Coalescing Element</th>
<th>Max Flow</th>
<th>Single Pass Water Removal Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 μm</td>
<td></td>
<td>&gt; 95%</td>
</tr>
</tbody>
</table>

Flow Direction: Outside In

Element Nominal Dimensions: 3.8" (95.6 mm) O.D. x 7.0" (177.2 mm) long - 340 Size
3.8" (95.6 mm) O.D. x 9.4" (238.2 mm) long - 600 Size

Note: For additional HDP performance information, please contact the factory

### Fuel Oils

- ULSD15 and similar petroleum diesels
- Biodiesel blends
- Synthetic diesel and blends

Note: For Flow and Pressure information, please contact the factory

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### Size Evolution Stage Filtration Rating Filter Material

<table>
<thead>
<tr>
<th>Size</th>
<th>Evolution Stage</th>
<th>Filtration Rating</th>
<th>Filter Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>0340</td>
<td>BC1</td>
<td>7 = 7 μm</td>
<td>KF1</td>
</tr>
<tr>
<td>0600</td>
<td>HT1</td>
<td>10 = 10 μm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 = 30 μm</td>
<td></td>
</tr>
</tbody>
</table>

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### Fluid Compatibility

- ULSD15 and similar petroleum diesels
- Biodiesel blends
- Synthetic diesel and blends

Note: For Flow and Pressure information, please contact the factory
# On-Board Diesel Fuel Coalescing Filter

## How to Build a Valid Model Number for a Schroeder HDP Housing Supplied w/ Element:

<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>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Example:**

NOTE: Only box 9 may contain more than one option

<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>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDP</td>
<td>KF1</td>
<td>340</td>
<td>BC1</td>
<td>10</td>
<td>W</td>
<td>1</td>
<td>X</td>
<td>/–</td>
</tr>
</tbody>
</table>

= HDP KF1 600 BC1 10 W 1.X

### BOX 1
- **Filter Series:**
  - HDP

### BOX 2
- **Filter Material:**
  - KF1 = Dieselmicron®

### BOX 3
- **Size:**
  - 340 = 90 gph
  - 600 = 160 gph
  - 1200 = 317 gph
  - 1800 = 476 gph

### BOX 4
- **Evolution Stage:**
  - BC1 = Manual Drain Configuration
  - HT1 = Auto Drain Configuration

### BOX 5
- **Filtration Rating:**
  - 7 = 7 μm
  - 10 = 10 μm
  - 30 = 30 μm

### BOX 6
- **Type of Clogging Indicator:**
  - W = no clogging indicator (340 & 600 BC only)
  - A = blanking plug in indicator port (600 HT only)
  - UED = vacuum gauge (600 HT only)

### BOX 7
- **Type Code:**
  - 1

### BOX 8
- **Modification Number:**
  - X = latest version number always supplied

### BOX 9
- **Options:**
  - Omit = None
  - AS1 = w/ integrated water sensor (12/24 VDC) *standard on 600 HT
  - H1 = w/ integrated fuel pre-heating (12 VDC)
  - H2 = w/ integrated fuel pre-heating (24 VDC)
  - PH3 = Hand priming pump (600 BC only)
  - PE1 = Integral Electric Pump 12 VDC (600 BC only)
  - PE2 = Integral Electric Pump 24 VDC (600 BC only)

**NOTES:**

For other options or configurations not listed, please contact factory.