Air/Oil Separators

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Technical Data
Oil Mist Discharge Filters

General
Recent developments in product design allow for the possible selection of oil mist discharge filters based on the type of equipment being used. It is, for the first time, possible to identify the appropriate grade of aerosol discharge filter because of the extensive research completed by the Solberg R&D department. Please follow the rules below to correctly size your oil mist discharge filter. If further consultation is required, please contact Solberg or your Solberg sales representative in your area.

Filter Selection Guidelines

#1: First of all air/oil separators used in compressed air systems, repeatedly fail in a vacuum pump applications. The first consideration is to determine the type of Vacuum Pump being used. The particle size distribution and mass of oil aerosol discharging from a vacuum pump is as varied as the number of separator tank designs utilized by the industry. The main pump types are Rotary Vane, Rotary Screw, Rotary Piston, Liquid Ring, and Reciprocating Vacuum Pumps. Each type of pump produces its own specific oil discharge characteristics and requires the appropriate media make-up to effectively capture and drain oil aerosols.

#2: Determine the type of oil being used in the vacuum pump. Trade names, viscosity/grade of oil, and the lubricant base (mineral, synthetic, etc.) are all useful in determining the discharge aerosol characteristics.

#3: Determine how much oil the pump consumes under normal operating conditions. Typical consumption rates are gallons or liters per hour. The amount of oil consumed is typically the amount of oil being discharged.

#4: Pump operating cycles including vacuum range, temperature fluctuations, contaminant gases or vapors, and hours of operation per day/week. Also, determine the maximum pressure drop or filter restriction the system will allow.

#5: Determine the operating temperature at the discharge connection. If it is above +180 ° F, methods of cooling the aerosol should be considered.

#6: Note the Horsepower of the pump, the outlet connection, and the air flow.

#7: When an external unit is to be used as the primary or sole air/oil separator in a system, a multi-stage severe duty system may be required.

#8: In the case where an existing air/oil separator (internal or external) is already used, it is important to specify the desired goal for a second filter. Is it planned to have a multi-staged system for severe or extreme duty applications, or is there a requirement for exceptionally clean discharge air? If a multiple stage system is needed, try to identify the primary stage unit and the purpose for the second stage.

#9: Consider where to install the filter. Where possible it is best to install in moderate temperature (+36° to +100°F) environments and avoid freezing conditions to ensure the oil drains freely without causing undue back pressure to the vacuum pump.

Once as much information as possible is obtained, send the data to Solberg for review and/or review our data sheets in the catalog or on our web page www.solbergmfg.com.
### Applications & Equipment

- Vacuum Pumps & Systems
- Vacuum Furnaces & Ovens
- Vacuum Freeze Drying & Outgassing
- Vacuum Metalizing
- Vacuum Drying
- Vacuum Coating
- Custom Vacuum Pumping Systems
- Food Processing & Packaging
- Industrial Vacuum Processes
- Pressure Unloading Vents on Piston Compressors
- Medical Work Areas
- Industrial Aerosol Scrubbing
- Heat Treating Equipment
- Vacuum Hold Down
- Routing Equipment
- Laboratory Industry
- Leak Detectors
- Autoclaving, Sterilization
- Reciprocating Engines
- Crankcase Ventilation Systems

### Installation & Maintenance

Mounting orientation is typically top-up vertical so draining can occur. See figure below for proper installation method. Request appropriate maintenance manual from your Solberg representative or through www.solbergmfg.com.

### Identification

Standard Solberg assemblies should have an identification label/nameplate that gives the following information:

- **Assembly Model #**
- **Replacement Element #**

The part number designates the filter type, the element configuration and housing connection size. For example, the following part number identifies the filter as being a “HDL” design filter with a “PSG344/2” coalescing element, and 3” MPT connection size.

**HDL-PSG344/2-300**

- **Filter Type**
- **Replacement Element Part Number**
- **Connection Size and Type**
Oil Mist Discharge Filters
HDL Series 1” - 2 1/2”

Features

• Captures oil fog, mist or aerosol from exhaust of oil sealed vacuum pumps
• Seamless drawn housings
• O-ring sealed housings
• Corrosive resistant carbon steel construction
• White powder coat finish
• Discharge baffle
• 1/4” NPSC drain tap

Benefits

• Easy field maintenance
• Pleated filter element provides increased surface area for low back pressure separation of ultra-fine oil mists
• Waste oil can be recycled

Technical Specifications

• 0.3 micron media; 99.97% efficiency
• Continuous operating temp: 68°F (20°C) up to 180°F (80°C)
• Mounted vertically
• Pressure rating: 5 psi

Options

• Lower back pressure media
• Application specific gaskets/seals
• Custom connections
• Nonstandard finishes
• Stainless steel housings (select models)

Options

<table>
<thead>
<tr>
<th>Inlet/Outlet Size</th>
<th>Assembly SCFM Rating</th>
<th>Housing Config.</th>
<th>Assembly Part Number</th>
<th>Dimensions - inches</th>
<th>Suggested Service HT.</th>
<th>Approx. Wt. lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; NPSC</td>
<td>40</td>
<td>A</td>
<td>HDL-PSG848-100HC</td>
<td>6 11/16 4 1/8 7 3/8 4 1/2</td>
<td>5 1/4</td>
<td>5</td>
</tr>
<tr>
<td>1 1/4&quot; NPSC</td>
<td>50</td>
<td>A</td>
<td>HDL-PSG848-125HC</td>
<td>6 11/16 4 1/8 7 3/8 4 1/2</td>
<td>5 1/4</td>
<td>5</td>
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<tr>
<td>1 1/2&quot; NPSC</td>
<td>50</td>
<td>A</td>
<td>HDL-PSG848-150HC</td>
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<td>5</td>
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<tr>
<td>2&quot; NPSC</td>
<td>125</td>
<td>B</td>
<td>HDL-PSG850/1-200HC</td>
<td>11 1/4 4 5/8 8 4/5 5</td>
<td>9 1/4</td>
<td>15</td>
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<tr>
<td>2&quot; NPSC</td>
<td>175</td>
<td>C</td>
<td>HDL-PSG860/1-200HC</td>
<td>17 3/8 4 5/8 8 3/4 5</td>
<td>14 1/2</td>
<td>30</td>
</tr>
<tr>
<td>2 1/2&quot; FPT</td>
<td>250</td>
<td>B</td>
<td>HDL-PSG244/2-250C</td>
<td>15 11/16 8 13/16 13 1/4 8 3/4</td>
<td>10 35</td>
<td>35</td>
</tr>
</tbody>
</table>

Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.

Note: 2 1/2” housing has 1/4” NPSC taps standard on inlet and outlet.

See Discharge Filter Technical Data section for sizing guidelines.
Oil Mist Discharge Filters
HDL Series 3”- 8”

Features
• Captures oil fog, mist or aerosol from exhaust of oil sealed vacuum pumps
• O-ring sealed housings
• Corrosive resistant carbon steel construction
• White powder coat finish
• 1/4” NPSC drain tap

Benefits
• Large oil holding capacity and easy field maintenance
• Pleated filter element provides increased surface area for low back pressure separation of ultra-fine oil mists
• Multiple separation stages in single element design
• Waste oil can be recycled

Technical Specifications
• 0.3 micron media; 99.97% efficiency
• Continuous operating temp: 68°F (20°C) up to 180°F (80°C)
• Mounted vertically
• Pressure rating: 14.5 psi

Options
• Lower back pressure media
• Application specific gaskets/seals
• Various nonstandard finishes and connection styles
• Stainless steel housings
• Nameplate bracket
• Lifting lugs

Versions

<table>
<thead>
<tr>
<th>MPT</th>
<th>Assembly Part Number</th>
<th>Dimensions - inches</th>
<th>Suggested Service HT.</th>
<th>Approx. Wt. lbs</th>
<th>Replacement Element Part No.</th>
<th>Element SCFM Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>3”</td>
<td>HDL-PSG344/2-300</td>
<td>A: 31 1/4, B: 9 1/8, C: 14, D: 22 1/2, E: 15</td>
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<td>PSG344/2</td>
<td>500</td>
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<td>4”</td>
<td>HDL-PSG344/2-400</td>
<td>A: 31 1/4, B: 9, C: 14, D: 22 1/2, E: 15</td>
<td>78</td>
<td></td>
<td>PSG344/2</td>
<td>500</td>
</tr>
<tr>
<td>5”</td>
<td>HDL-PSG474/2-500</td>
<td>A: 38 1/4, B: 11, C: 18 1/2, D: 29 1/2, E: 22</td>
<td>160</td>
<td></td>
<td>PSG474/2</td>
<td>1100</td>
</tr>
<tr>
<td>6”</td>
<td>HDL-PSG474/2-600</td>
<td>A: 39 1/4, B: 11, C: 18 1/2, D: 30 1/2, E: 22</td>
<td>160</td>
<td></td>
<td>PSG474/2</td>
<td>1100</td>
</tr>
<tr>
<td>8”F</td>
<td>HDL-PSG476-800F</td>
<td>A: 38 15/16, B: 14, C: 22 1/2, D: 25 1/2, E: 22</td>
<td>180</td>
<td></td>
<td>PSG476</td>
<td>1800</td>
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</tbody>
</table>

See Discharge Filter Technical Data section for sizing guidelines.

Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.
Compact Closed Oil Mist Filters
EE Series Threaded, ISO FLG

Features
- Captures oil fog, mist or aerosol from exhaust of oil sealed vacuum pumps
- Back pressure valve designed to release element at 0.5 bar (7.35 PSI) differential for pump safety
- Seamless drawn housings
- Corrosive resistant carbon steel construction
- White powder coat finish
- 1/8" NPSC oil drain

Benefits
- Compact low profile design
- Easy field maintenance

Technical Specifications
- 0.3 micron media; 99.97% efficiency
- Continuous operating temp: 68°F (20°C) to 180°F (80°C)
- Mounted vertically

Options
- Additional ISO flange connections
- Nonstandard finishes available
- Assemblies without a valve

<table>
<thead>
<tr>
<th>Assembly Type</th>
<th>SCFM Rating</th>
<th>Dimensions - inches</th>
<th>Replacement Element</th>
<th>Element SCFM Rating</th>
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<tbody>
<tr>
<td>Part Number</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>EE-GL915-075</td>
<td>4</td>
<td>9/16</td>
<td>1 1/8</td>
<td>3 1/4</td>
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<td>EE-GL915-QF16</td>
<td>4 11/16</td>
<td>7/8</td>
<td>3 1/4</td>
<td>7/8</td>
</tr>
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<td>EE-GL915-QF25</td>
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<td>7/8</td>
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<td>7/8</td>
</tr>
<tr>
<td>EE-PSG925-QF25</td>
<td>7 3/8</td>
<td>7/8</td>
<td>5 1/4</td>
<td>7/8</td>
</tr>
</tbody>
</table>

Note: QF2516 Designation: Unit has an ISO NW25 flange with a 16mm tube (neck).
Compact Oil Mist Filters
EF Series 1/2”-1 3/4” NPT, ISO FLG

Features
- Captures oil fog, mist or aerosol from discharge of oil sealed vacuum pumps
- Steel construction with nickel plated finish
- Nickel plated finish
- Seamless drawn housings
- Easy thumb screw access for element maintenance
- Oil run off from the filter returns to the pump

Technical Specifications
- 0.3 micron media; 99.97% efficiency
- Continuous operating temp: 68°F (20°C) to 180°F (80°C)

Options
- Additional ISO flange connections
- Nonstandard connection styles

<table>
<thead>
<tr>
<th>Connection Size</th>
<th>Type</th>
<th>Assembly SCFM Rating</th>
<th>Assembly Part Number</th>
<th>DIMENSIONS - inches</th>
<th>Approx. Wt. lbs</th>
<th>Replacement Element Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; MPT</td>
<td>4.5</td>
<td>EF-FG5-050</td>
<td>A 4 B 7/8 C 2 1/2</td>
<td>0.6</td>
<td>FG5</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; MPT</td>
<td>7</td>
<td>EF-FG7-050</td>
<td>A 5 B 1 C 2 1/2</td>
<td>1.8</td>
<td>FG7</td>
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<tr>
<td>3/4&quot; 3/4-20 UNEF</td>
<td>4</td>
<td>EF-FG3-077</td>
<td>A 3 1/4 B 1 C 2 1/2</td>
<td>1.2</td>
<td>FG3</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; MPT</td>
<td>4.5</td>
<td>EF-FG5-075</td>
<td>A 4 3/8 B 1 C 2 1/2</td>
<td>0.9</td>
<td>FG5</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; MPT</td>
<td>7</td>
<td>EF-FG7-075</td>
<td>A 5 3/8 B 1 1/4 C 2 1/2</td>
<td>1.8</td>
<td>FG7</td>
<td></td>
</tr>
<tr>
<td>1&quot; 1-20 UNEF</td>
<td>4.5</td>
<td>EF-FG5-103</td>
<td>A 4 B 13/16 C 2 1/2</td>
<td>0.7</td>
<td>FG5</td>
<td></td>
</tr>
<tr>
<td>1&quot; 1-20 UNEF</td>
<td>7</td>
<td>EF-FG7-103</td>
<td>A 5 B 13/16 C 2 1/2</td>
<td>0.8</td>
<td>FG7</td>
<td></td>
</tr>
<tr>
<td>1&quot; 1-20 UNEF</td>
<td>16</td>
<td>EF-FG9-103</td>
<td>A 5 1/8 B 7/8 C 5</td>
<td>1.8</td>
<td>FG9</td>
<td></td>
</tr>
<tr>
<td>1 3/4&quot; 1 3/4-20 UN</td>
<td>24</td>
<td>EF-FG10-103</td>
<td>A 7 B 7/8 C 5</td>
<td>1.8</td>
<td>FG10</td>
<td></td>
</tr>
<tr>
<td>16mm ISO Flange</td>
<td>4.5</td>
<td>EF-FG5-NW16</td>
<td>A 4 B 7/8 C 2 1/2</td>
<td>0.6</td>
<td>FG5</td>
<td></td>
</tr>
<tr>
<td>25mm ISO Flange</td>
<td>4.5</td>
<td>EF-FG5-NW2516</td>
<td>A 4 B 7/8 C 2 1/2</td>
<td>1.4</td>
<td>FG5</td>
<td></td>
</tr>
<tr>
<td>25mm ISO Flange</td>
<td>24</td>
<td>EF-FG10-KF25</td>
<td>A 8 5/16 B 2 1/8 C 5</td>
<td>3.5</td>
<td>FG10</td>
<td></td>
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<tr>
<td>40mm ISO Flange</td>
<td>44</td>
<td>EF-FG20-KF40</td>
<td>A 7 B 10 1/4 C 7</td>
<td>7.0</td>
<td>FG20</td>
<td></td>
</tr>
</tbody>
</table>

See Oil Mist Discharge Filter Technical Data section for sizing guidelines.

Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.
**Oil Mist Filters w/Drain Back**

**EFDB Series**

**Features**

- Captures oil fog, mist or aerosol from exhaust of oil sealed vacuum pumps
- Auto drain back design to recycle oil mist:
  - Internal drain returns oil back into pump
  - Prevents oil blow back with auto sealing
  - Enclosed housing allows clean environment
- Steel construction
- Nickel plated finish
- Seamless drawn housings
- Easy thumb screw access for element maintenance
- Oil run off from the filter returns to the pump

**Technical Specifications**

- 0.3 micron media; 99.97% efficiency
- Continuous operating temp: 68°F (20°C) to 180°F (80°C)

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Part Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Approx. Wt. lbs</th>
<th>Replacement Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>KF25 ISO Flange</td>
<td>EFDB-FG9-KF25</td>
<td>9</td>
<td>2</td>
<td>3/16</td>
<td>2.5</td>
<td>FG9</td>
</tr>
<tr>
<td>1-20 UNEF</td>
<td>EFDB-FG9-103</td>
<td>7 1/2</td>
<td>7/8</td>
<td>5 1/8</td>
<td>2.3</td>
<td>FG9</td>
</tr>
<tr>
<td>1 3/4-20 UN</td>
<td>EFDB-FG11-177</td>
<td>9 3/4</td>
<td>2</td>
<td>6 1/4</td>
<td>2.5</td>
<td>FG11</td>
</tr>
</tbody>
</table>

See Oil Mist Discharge Filter Technical Data section for sizing instructions.

Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.
Series Specific Applications

- Landfill and Bio-Gas recovery
- Fuel gas purity for
  - Reciprocating Engines
  - Gen-Sets
  - Turbines
- Gas compression
- Oil sealed screw compressor discharge
- Gas pipeline boosting

Features

- Protects equipment from condensate, oil, and particulate entrained in the gas stream
- Multi-stage separation
  - 316 SS vane pack and/or demister pad for heavy condensate and oil removal
  - 99.97% efficient at 0.3 micron separator for oil mist
- Corrosive resistant carbon steel construction
- Contact factory for model offering and availability

Options

- Special standards: PED, CRN, ASME
  - Vessel code sec. VIII division I
- Stainless steel construction
- Special coatings or finishes
- Replaceable filter elements in various efficiencies for particulate removal
- Gauge ports, float switches
- Custom leg supports
- Flush port for vessel cleaning
- Davit arm for vessel lid removal

Note: Drawings are for reference purposes only.

Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.
Vacuum Assisted Oil Mist Eliminators
Reciprocating Engines and Turbines

Our Vacuum Assisted Oil Mist Eliminators are designed for field upgrades and new reciprocating engines and turbine installations around the world. Our high efficiency filtration systems eliminate vented oil mist emissions while controlling engine pressure in crankcases and turbine lube oil reservoirs. We offer either vapor extractor and static options based on application requirements.

Series Specific Applications

Reciprocating Engines: Stationary

• Crankcase ventilation systems ensure environmental compliance and protect surrounding workplace from harmful oil mist emissions
• Open and closed system designs
• Prevents engine intake system contamination and seal leakage
• Improves engine performance
• Controls crankcase pressure
• Applications: landfill gas to energy, standby power, prime power, and mechanical drive

Gas & Steam Turbines

• Retrofits and upgrades to replace outdated and inefficient vapor extractors for lube oil systems
• Typical systems include: high efficiency coalescing element, vacuum / pressure controls and integrated bypass device to simply maintenance and reduce operating costs
• Applications: peaking, nuclear, and base load power plants

Reciprocating Engines: Marine

• Crankcase ventilation systems ensure safety and reliability
• Unique piping configuration for easy installation, self regulation and seal leak prevention
• Captures vented oil mist emissions and reduces breathing and slipping hazards
• Applications: passenger ships, workboats, military vessels
Vacuum Assisted Oil Mist Eliminators
1 - 1500 CFM

Features

- Eliminates visible oil mist emissions
- High efficiency and long lasting replaceable coalescing elements
- Rugged carbon steel construction
- Industrial grade powder coat finish
- Drain ports for oil recovery
- Control valves for precise pressure regulation
- Large assortment of motor options (Explosion proof, ATEX, etc.)
- Integrated vacuum relief for motor protection
- Contact factory for specific flow ratings and sizes.

Technical Specifications

- 0.3 micron media; 99.97% efficiency
- Flow range: 1-1,500 ft³/m (1-2550 m³/h) std, higher flows are available on request
- Pressure Rating: 1 bar full vacuum (most models)

Environmental Compliance

Based on the 2013 U.S. EPA’s RICE NESHAP* ruling, stationary engines over 300HP should have been equipped with a crankcase ventilation system. The objective was to reduce the harmful crankcase emissions emitted into the environment.

Solberg is committed to partnering with plant operators to update their equipment and lessen their environmental impact.

Options

- Redundant equipment to ensure continuous operation
- Full automation: PLC and DCS compatible
- Stainless steel construction for harsh environments
- Custom coating and colors
- ASME Section VIII or PED pressure certifications
- Explosive environ. options: ATEX, Class I Div. 1, etc.
- Motor listings: UL, CE, IEC, CSA, IEEE, KOSHA, etc.
- Motor accessories: Heaters, starters, switches, VFD, etc.
- Skid mounted units for ease of transport & installation
- Service and maintenance platforms
- GOST certification

* Reciprocating Internal Combustion Engines
Closed Crankcase Ventilation Systems
Capture Vented Crankcase Emissions

CCV Series

Solberg designs and manufactures high efficiency Closed Crankcase Ventilation Systems to capture oil mist and particulate emissions (blow-by) from the crankcases of a reciprocating engine.

Solberg’s closed systems protect an engine’s turbocharger, intercoolers and exhaust catalysts from oil mist and particulate contamination. The results are optimized engine performance and a reduction in costly repairs and maintenance.

Solutions Designed For

- Caterpillar
- Jenbacher
- Waukesha
- MTU
- Guascor
- Wartsila
- Cummins
- Fairbanks Morse

Typical Applications

- Electric Power Generation
- Marine Power Generation
- Marine Propulsion
- Gas Compression

Benefits & Purpose

- Captures the hazardous oil mist and particulate emissions “blow-by” vented from the crankcase.
- Achieves 99.97% efficiency for 0.3 micron oil mist and particulate
- Protects the turbocharger, intercoolers and exhaust catalysts from contamination and damage.
- Prevents potential health hazards from entering the surrounding environment and workplace
- Maintains required crankcase vacuum via integrated self-regulating valve
- Recovers expensive lube oil lost during the venting process, which allows for efficient operation and lower maintenance costs

Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.
**Series Specific Applications**

- Vents for Oil Reservoirs, Crankcases, Bearings, Coupling Guards
- Compressor, Turbine, Gearbox, Engine Applications

**Features**

- Eliminates visible vented oil mist emissions
- High efficiency fiberglass filter elements: 99.97% removal efficiency for 0.3 μm oil mist
- Corrosive resistant carbon steel construction
- Powder coat finish
- Low back pressure filter element design: Pleated and wrapped fiberglass options
- Extensive flow range
- Continuous operating temp: 68°F (20°C) to 180°F (80°C)
- Contact factory for specific flows and sizes.

**Options**

- Stainless steel construction
- Special coatings and finishes
- Internal drain-back mechanism
- Alternative filtration media (wire mesh demister, vane separator)
- Multiple configurations
- Vacuum assisted oil mist eliminators (See page 5-10 to 5-11)

Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.
Static Vent Oil Mist Eliminators
CVB Series

Features
- Eliminates visible vented oil mist emissions
- Carbon steel construction with powder coat finish
- Low back pressure wrapped filter element design
- External drain-back

Series Specific Applications
- Air/Oil Separation Vents for oil reservoirs, crankcases, bearings, coupling guards
- Compressors, turbines, gearboxes, and engines

Technical Specifications
- 0.3 micron media; 99.97% efficiency;
- Typically 5 PPM or less (Consult factory for challenge)
- Continuous operating temp: 68°F (20°C) to 180°F (80°C)

Options
- Stainless steel construction and resistance coatings
- Alternative filtration media (Wire mesh demister)
- Pleated coalescing elements
- Vacuum assisted style available
- Extensive flow range available upon request

<table>
<thead>
<tr>
<th>Outlet Size</th>
<th>Assembly Part Number</th>
<th>Dimensions - inches</th>
<th>Approx. Wt. lbs</th>
<th>Replacement Element Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; MPT</td>
<td>CVB-WP848-100</td>
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Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.