## Inlet Filter Silencers / Silencers

### Technical Data

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**SOLBERG®**

Filtration • Separation • Silencing

**Jamieson Equipment Company**

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Technical Data
Inlet Filter Silencers/Silencers

Applications & Equipment

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- Piston Compressors
- Screw Compressors
- Centrifugal Compressors
- Hydraulic Breathers – fine filtration
- Engines
- Fans
- Vacuum Pumps & Systems
- Construction\Contractor Industry
- Medical
- Pneumatic Conveying
- Waste Water Aeration
- Sparging
- Factory Air
- Vacuum Vent Breathers
- Cement Processing
- Power Plants
- Centralized Air Intakes

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 “FS” design filter with a “275” element, “P” prefilter and 3” MPT connection size.

FS-275P-300

Typical Noise Attenuation

See chart for typical noise attenuation for filter silencers. It may vary due to the wide range of applications, installations, and machines.
Choosing the Best Filter for your Equipment

A. Connection & Airflow Known: When the connection & airflow is known:
   1. Select appropriate connection style. (i.e.: MPT, Flange, NPSC, etc.)
   2. Check assembly SCFM (flow) rating. Compare with your required airflow. (Note: Assembly flow ratings are based on 6,000 FPM or 30m/sec for a given connection size to achieve low pressure drop performance. When required flow exceeds assembly flow rating, the pressure drop through the outlet connection will increase. In such cases select by element SCFM (flow) rating.)
   3. When required flow rating matches connection size; skip to “C. Selecting Elements”.

B. Unknown Connection: When the connection size is unknown, flexible, or the required flow rating exceeds assembly flow rating:
   1. Match required flow rating with the element flow rating.
   2. Choose related connection size.

C. Selecting Elements: The filter performance is influenced by the actual application duty and the equipment it is installed on. Regular maintenance checks and proper servicing is required.

Application Duty Descriptions:
Industrial Duty: Clean workshop or clean outdoor environment - small element sizing is sufficient.
Severe Duty: Dirty workshop, wastewater – medium to large element is recommended.
Extreme Duty: Cement, steel making, plastics or dusty material conveying – Largest element sizing is recommended.

1. Select media required by your application. Options include:
   a. Standard media
      1. Polyester: All purpose; it withstands pulses, moisture and oily air
      2. Paper: Mostly dry, smooth flow applications
   b. Special Media: For a variety of micron levels and media types, see the “Filter Media Specifications” in the Replacement Element Section or contact Solberg.
   2. Select element size by matching the element with the anticipated duty and upsize accordingly.

Filter Assembly Maintenance

Request the appropriate maintenance manual for more in-depth information from your Solberg representative or through www.solbergmfg.com.

Element Maintenance

Solberg elements should be replaced once the pressure drop reaches 15-20” H2O above the initial pressure drop of the installation. Cleaning an element is also an option.

Solberg recommends replacing dirty elements for optimal performance. Any damage which results from by-pass or additional pressure drop created by element cleaning is the sole responsibility of the operator.

Note: The overall performance of a filter element is altered once cleaned. The initial pressure drop after subsequent cleanings will be greater than the original, clean pressure drop of the element. After each cleaning, the pressure drop will continue to increase. Under all circumstances, the initial pressure drop of the element needs to be maintained at less than 15” H2O.

If the pressure drop exceeds 20” H2O at start-up; it should be replaced with a new element. With many types of equipment, the maximum pressure drop allowed will be dictated by the ability of the equipment to perform to its rated capacity. Under all circumstances, the operator should avoid exceeding the manufacturer’s recommended maximum pressure drop for their specific equipment.
**Miniature Filter Silencers**

**FS Series 1/4” - 1” MPT**

**Features**

- High grade filter element with integrated gasket seal
- Fully drawn weatherhood
- Tubular silencing design - tube maximizes attenuation and air flow while minimizing pressure drop
- Corrosion resistant carbon steel construction
- Black powder coat finish
- Ability to mount vertically and horizontally

**Options**

- Various media for different environments
- Straight through configuration
- Various nonstandard finishes and connection styles

**Technical Specifications**

- Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
- Filter change out differential: 15-20" H2O over initial ΔP
- Polyester: 99%+ removal efficiency standard to 25 micron
- Paper: 99%+ removal efficiency standard to 2 micron
- Pressure drop graphs available upon request

**Assembly No. of Element SCFM Silencing Approx. SCFM Outlet Rating Polyester Paper A B C Tubes Wt. lbs. Polyester Paper Rating**

<table>
<thead>
<tr>
<th>MPT Outlet</th>
<th>Assembly SCFM Rating</th>
<th>Assembly Part Number Polyester Paper</th>
<th>Dimensions - inches A B C</th>
<th>No. of Silencing Tubes</th>
<th>Approx. Wt. lbs.</th>
<th>Replacement Element Part No. Polyester Paper</th>
<th>Element SCFM Rating</th>
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<td>11 10</td>
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</table>

See Filter Silencer Technical Data section for sizing guidelines.

**Tidbit:** Charlie Solberg Jr. created a patented process to manufacture our Hockey Puck Style Filter Elements that are used in these housings.
Features

- Easy snap-on design for quick servicing
- Durable glass reinforced nylon housing
- Compact, low profile configuration
- Noise reducing silencing design
- High grade filter element with integrated gasket seal

Benefits

- Longer element life with maximized surface area
- Cost efficient solution
- Low restriction improves equipment performance

Technical Specifications

- Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
- Filter change out differential: 15-20” H2O over initial ΔP
- Pressure drop graphs available upon request
- Polyester: 99%+ removal efficiency standard to 25 micron
- Paper: 99%+ removal efficiency standard to 2 micron

Options

- Various media for different environments

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**Miniature Plastic Filter Silencers**

**PS Series 1/8” - 1” MPT**

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### Technical Specifications

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<tr>
<th>MPT Outlet</th>
<th>Assembly SCFM Rating</th>
<th>Assembly Part Number Polyester</th>
<th>Assembly Part Number Paper</th>
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<th>Approx. Wt. lbs</th>
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* Contact factory for availability and lead times.

See Filter Silencer Technical Data section for sizing guidelines.
Compact Filter Silencers
FS Series 1/2”-6”MPT, 4”-6”FLG

Features

• Fully drawn weatherhood
• Tubular silencing design - tubes are positioned to maximize attenuation and air flow while minimizing pressure drop
• Corrosion resistant carbon steel construction
• Powder coat finish

Technical Specifications

• Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
• Filter change out differential: 15-20” H2O over initial Δ P
• Pressure drop graphs available upon request
• Polyester: 99%+ removal efficiency standard to 5 micron
• Paper: 99%+ removal efficiency standard to 2 micron

Options

• Tap holes available
• Pressure drop indicator (See page 3-12)
• Various media for different environments
• Stainless steel construction
• Various nonstandard finishes and connection styles
• Side Access Silencer Filters (LQB Series) for space restricted enclosures (select models)

Tidbit: Charlie Solberg Sr. “Senior” designed our first filter silencer in 1966. The FS-15 size filter was created for small air compressors.
### MPT Outlet Assemblies

<table>
<thead>
<tr>
<th>MPT Outlet</th>
<th>Assembly SCFM Rating</th>
<th>Assembly Part Number</th>
<th>Dimensions - inches</th>
<th>No. of Silencing Tubes</th>
<th>Approx. Wt. lbs</th>
<th>Replacement Assembly Part Number</th>
<th>Element SCFM Rating</th>
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See Filter Silencer Technical Data section for sizing guidelines.

### Flange Outlet Assemblies

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<th>Flange Outlet</th>
<th>Assembly SCFM Rating</th>
<th>Assembly Part Number</th>
<th>Dimensions - inches</th>
<th>No. of Silencing Tubes</th>
<th>Approx. Wt. lbs</th>
<th>Replacement Assembly Part Number</th>
<th>Element SCFM Rating</th>
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See Filter Silencer Technical Data section for sizing guidelines.

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**Note:** Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.
Big Boy Filter Silencers
FS Series 6” to 14” FLG

Features

- Tubular silencing design - tubes are positioned to maximize attenuation and airflow while minimizing pressure drop
- Corrosion resistant carbon steel construction
- Powder coat finish
- Low pressure drop center bracket & outlet pipe design

Options

- Tap holes available
- Pressure drop indicator (See page 3-12)
- Various media for different environments
- Stainless steel construction

Technical Specifications

- Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
- Filter change out differential: 15-20" H2O over initial ΔP
- Pressure drop graphs available upon request
- Polyester: 99%+ removal efficiency standard to 5 micron
- Paper: 99%+ removal efficiency standard to 2 micron

Options

- Various nonstandard finishes and connection styles
- Side Access Silencer Filters (LQB Series) for space restricted enclosures (select models)

Assembly No. of Element

<table>
<thead>
<tr>
<th>Flange Outlet</th>
<th>Assembly SCFM Rating</th>
<th>Assembly Part Number</th>
<th>Dimensions - inches</th>
<th>No. of Silencing Tubes</th>
<th>Approx. Wt. lbs</th>
<th>Replacement Element Part No.</th>
<th>Element SCFM Rating</th>
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</thead>
<tbody>
<tr>
<td>6”</td>
<td>1100</td>
<td>FS-377P-600F</td>
<td>22 11/16 5 1/4 21 7/8</td>
<td>6</td>
<td>95</td>
<td>377P</td>
<td>1825</td>
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<td>8”</td>
<td>1800</td>
<td>FS-377P-800F</td>
<td>24 6 28 5/16 16</td>
<td>12</td>
<td>125</td>
<td>385P</td>
<td>3295</td>
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<td>10”</td>
<td>3300</td>
<td>FS-377P-1000F</td>
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<td>16</td>
<td>143</td>
<td>485P</td>
<td>4705</td>
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<td>4700</td>
<td>FS-385P-1200F</td>
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<td>6000</td>
<td>FS-385P(2)-1400F</td>
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<td>245</td>
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</tbody>
</table>

See Filter Silencer Technical Data section for sizing guidelines.

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

- Layered sound absorbent media
- Designed for minimal pressure drop; baffles, internal tubes, and other restrictive devices are unnecessary
- For inlet and discharge inline air service
- Corrosion resistant carbon steel construction
- Powder coat finish: 1/2” to 1-1/2”
- Epoxy coat finish: 2” to 4”

Technical Specifications

- Max. temperature (continuous): 225°F (107°C)
- Due to the wide range of equipment and environments; please contact factory for typical noise attenuation for your application.

Options

- Flange adapters
- Larger sizes
- Special connections
- Hi-temp models

### Typical Noise Attenuation

- Noise attenuation may vary due to the wide range of applications and machines

<table>
<thead>
<tr>
<th>Inlet/Outlet Size</th>
<th>Assembly Type</th>
<th>Assembly Part Number</th>
<th>Dimensions - inches</th>
<th>Approx. Wt. lbs.</th>
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<tbody>
<tr>
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<td>NPSC</td>
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<td>FPT</td>
<td>SLCR200</td>
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<td>SLCR250</td>
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<td>SLCR300</td>
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<td>FPT</td>
<td>SLCR400</td>
<td>A: 24 11/16 13/4 10</td>
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<td>SLCRT050</td>
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<td>MPT</td>
<td>SLCRT150</td>
<td>A: 14 1/2 2 2 5/8</td>
<td>3</td>
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<tr>
<td>2”</td>
<td>MPT</td>
<td>SLCRT200</td>
<td>A: 18 1/2 2 1/8 3 5/8</td>
<td>4</td>
</tr>
<tr>
<td>2 1/2”</td>
<td>MPT</td>
<td>SLCRT250</td>
<td>A: 23 11/16 2 5/8 5 1/8</td>
<td>10</td>
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<tr>
<td>3”</td>
<td>MPT</td>
<td>SLCRT300</td>
<td>A: 28 2 5/8 5 1/8</td>
<td>10</td>
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<tr>
<td>4”</td>
<td>MPT</td>
<td>SLCRT400</td>
<td>A: 29 5/16 4 10 26</td>
<td>26</td>
</tr>
</tbody>
</table>

Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.
Heavy Duty Silencer Filters for Blowers
2G Series 3”-4”MPT, 4”-12”FLG

QB Series 2” - 3” MPT

**Benefits**

- Overall cost of the blower package is dramatically lowered
- Differentiate your blower package from “traditional”
- The number of costly components in a system are reduced, shrinking the footprint.
- Power consumption (amp draw) is reduced allowing for increased performance and lower pressure drop is achieved with the removal unnecessary components.
- Material, handling, labor & freight costs are minimized.

**Features**

- Fully drawn carbon steel weatherhood (2” to 6” connections only)
- Multiple silencing features to reduce and deaden sound
  - Tubular Silencing - Tubes placed to maximize attenuation
  - Quiet Band Support - “Quiet band” technology utilizes sound suppression in the design of the housing
- Internal Silencer - Center tubular silencer (2G Series only)
- 1/8” tap hole standard (2G Series only)

**Technical Specifications**

- Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
- Filter change out differential: 15-20” H2O over initial Δ P
- Pressure drop graphs available upon request
- Polyester: 99%+ removal efficiency standard to 5 micron
- Paper: 99%+ removal efficiency standard to 2 micron

**Options**

- Pressure drop indicator
- Various media for different environments
- Stainless steel construction
- Various nonstandard finishes and connection styles
- Side Access Filter Silencers (LQB Series) for space restricted enclosures (select models)
### QB Series: MPT Outlet Assemblies

<table>
<thead>
<tr>
<th>MPT Outlet</th>
<th>SCFM Rating</th>
<th>Assembly Part Number</th>
<th>Assembly Model Number</th>
<th>Dimensions - inches</th>
<th>No. of Silencing Tubes</th>
<th>Approx. Wt. lbs</th>
<th>Replacement Element Part No.</th>
<th>Element SCFM Rating</th>
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<tbody>
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<td>QB-231P-250</td>
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<td>16</td>
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<tr>
<td>3&quot;</td>
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<td>QB-231P-300</td>
<td>QB-230P-300</td>
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<td>16</td>
<td>231P 230P</td>
<td>300</td>
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</table>

### 2G Series: MPT Outlet Assemblies

<table>
<thead>
<tr>
<th>MPT Outlet</th>
<th>SCFM Rating</th>
<th>Assembly Part Number</th>
<th>Assembly Model Number</th>
<th>Dimensions - inches</th>
<th>No. of Silencing Tubes</th>
<th>Approx. Wt. lbs</th>
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<th>Element SCFM Rating</th>
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<td>2G-275P-300</td>
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<td>520</td>
<td>2G-275P-400</td>
<td>2G-274P-400</td>
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<td>800</td>
<td>2G-275P-500</td>
<td>2G-274P-500</td>
<td>A: 14             B: 4 C: 16</td>
<td>14</td>
<td>41</td>
<td>275P 274P</td>
<td>1100</td>
</tr>
<tr>
<td>6&quot;</td>
<td>1100</td>
<td>2G-275P-600</td>
<td>2G-274P-600</td>
<td>A: 15             B: 5 C: 16</td>
<td>18</td>
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<td>1100</td>
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### 2G Series: Flange Outlet Assemblies

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<th>Assembly Part Number</th>
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<th>No. of Silencing Tubes</th>
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</thead>
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<td>6&quot;</td>
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<td>2G-275P-600F</td>
<td>2G-274P-600F</td>
<td>A: 15             B: 5 C: 16</td>
<td>18</td>
<td>47</td>
<td>275P 274P</td>
<td>1100</td>
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<tr>
<td>8&quot;</td>
<td>1600</td>
<td>2G-377P-800F</td>
<td>2G-376P-800F</td>
<td>A: 23             B: 9/16 C: 6 1/8</td>
<td>21 7/8</td>
<td>12</td>
<td>377P 376P</td>
<td>1825</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1800</td>
<td>2G-485P-800F</td>
<td>2G-484P-800F</td>
<td>A: 31 1/2         B: 6 C: 28 5/16</td>
<td>12</td>
<td>142</td>
<td>485P 484P</td>
<td>4705</td>
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</table>

See Filter Silencer Technical Data section for sizing guidelines.
A Wise Business Decision
Cut Your Labor and Assembly Time

No Welding, Painting, Cutting, or Drilling Required

- **Maximize Productivity** - From junior to experienced technicians, assemble and ship blower packages faster with fewer resources

- **Significant Costs Savings** - Only one vendor needed to help you improve margins through lower labor and material handling costs, Solberg provides the complete solution

- **Engineering Support** - Design specifications and drawings are available to help you configure and present your package to your customers

- **Ultra Compact Design** - Integrated Discharge Silencer offers a low profile and small footprint

- **Build Your Sound Enclosure Competitively** - The compact design allows you to build significantly smaller and less costly enclosures to meet more stringent noise level requirements

**Solberg Kit Components:**

- Silencer Base Frame w/Pre-Assembled Rails, Easy Accessible Belt Guard, Complete Hardware Kit, Assembly Instructions, Engineering Assistance upon request

**Solberg Filters and Silencers:**

- Protect your Investment
- Premium Grade Silencer Filters / Inlet Vacuum Filters

Optional Accessory
Silencer Frames for Blower Packagers

BBF Series 2”- 6”

Features

• Reactive style silencing design
• Integrated discharge silencer
• Adjustable motor supports for belt tensioning
• Pre-assembled rails to frame
• Corrosion resistant carbon steel construction
• External black powder coat finish

Benefits

• Compact design for small blower package footprint
• Low profile allows for easier maintenance inspections
• Quick installation time
• Cost Savings (Minimal packaging, freight & storage)
• Sound enclosures are more economical due to compact frame footprint
• Engineering support provided by Solberg for sizing specifications and specific requirements

Technical Specifications

• Pressure Rating: 14.7 psi
• Hardware Kit (SAE std. nuts, bolts, washers) included
• Ports for: relief valve, pressure & temperature gauges

Options

• Purpose built belt guard
• Flexible boot kit (clamp, flex adapter)
• Flange adapters
• Snubber discharge silencer for vacuum applications
• Contact factory for best Solberg filter for your package

<table>
<thead>
<tr>
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<td>2”</td>
<td>2”</td>
<td>135</td>
<td>BBF-200</td>
<td>26 30 12</td>
<td>2-1/2”</td>
<td>5-20</td>
<td>130</td>
<td>DL-200</td>
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<tr>
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<td>2 1/2”</td>
<td>195</td>
<td>BBF-250</td>
<td>26 30 12</td>
<td>2-1/2”</td>
<td>5-20</td>
<td>130</td>
<td>DL-200</td>
<td>20</td>
</tr>
<tr>
<td>3”</td>
<td>3”</td>
<td>300</td>
<td>BBF-300</td>
<td>30 1/2 35 15 3/16</td>
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<td>10-50</td>
<td>180</td>
<td>DL-300</td>
<td>23</td>
</tr>
<tr>
<td>4”</td>
<td>4”</td>
<td>520</td>
<td>BBF-400</td>
<td>30 1/2 35 15 3/16</td>
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<td>10-50</td>
<td>180</td>
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<td>6”</td>
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<td>BBF-600F</td>
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<td>3”</td>
<td>20-60</td>
<td>398</td>
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</tbody>
</table>

Note: Model offerings and design parameters may change without notice. See www.solbergmfg.com for most current offering.
Lateral Access Filter Silencer
LQB Series

Features

• Multiple silencing features to reduce and deaden sound
  - Tubular Silencing - Tubes placed to maximize attenuation
  - Quiet Band Support - “Quiet band” technology utilizes sound suppression in the design of the housing
• Side access door with seal
• Corrosive resistant carbon steel construction
• Powder coat finish
• 1/8” tap hole
• Please contact Solberg for model offerings and availability.

Benefits

• Easy maintenance due to easy accessible element
• Compact housing design ideal for
  - Blower packages with enclosures
  - Space restricted work areas
• Cost savings due to smaller sound enclosure
• Differentiate your package from traditional
• Designed to be used with Solberg’s BBF Series Silencer Base Frame

Technical Specifications

• Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
• Filter change out differential: 15-20” H2O over initial Δ P
• Pressure drop graphs available upon request
• Polyester: 99%+ removal efficiency standard to 5 micron
• Paper: 99%+ removal efficiency standard to 2 micron

Options

• Various media for different environments
• Stainless steel construction
• Various nonstandard finishes and connection styles
• Pressure drop indicator (See page 3-11)

Why Solberg’s LQB Series?

LQB Series helps make enclosures feasible and simplifies the maintenance process. Typical filter silencers require service area above the filter housing which increases the height and cost of the enclosure and makes servicing the unit difficult. The LQB Filter Silencer has an easy access side port which simplifies servicing and lowers the cost of your enclosure dramatically.

Examples of LQB Silencer Filter with and without filter element installed. Filter element easily slides out the side port for servicing.
Sumo Class Filter Features

- Single barrel filter design allows for large airflows in space restricted work areas
- 16” to 24” Flange connections available
- Tubular Silencing: Tubes positioned to maximize attenuation and air flow while minimizing pressure drop
- Low pressure drop housing construction
- Please contact Solberg for model offerings and availability.

Technical Specifications

- Designed for airflows up to 8000 SCFM
- Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
- Filter change out differential: 15” - 20” H2O over initial ∆P
- Polyester: 99%+ removal efficiency standard to 5 micron
- Paper: 99%+ removal efficiency standard to 2 micron

Options

- Tap holes
- Pressure drop indicator
- Various media for different environments
- Stainless steel construction
- Various nonstandard finishes and connection styles

Multibarrel Filter Silencers Features

- Designed for large airflow applications
- Cartridge style elements provide:
  - Increased reliability-better positive seal than panel filters
  - Added efficiency with maximum surface area
- 14” to 30” Flange connections available
- Tubular Silencing: Tubes positioned to maximize attenuation and air flow while minimizing pressure drop
- Multiple configurations allows for a variety of environments
- Durable carbon steel construction with powder coat finish
- Please contact Solberg for model offerings and availability.

Technical Specifications

- Designed for airflows up to 25000 SCFM
- Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
- Filter change out differential: 15” - 20” H2O over initial ∆P
- Polyester: 99%+ removal efficiency standard to 5 micron
- Paper: 99%+ removal efficiency standard to 2 micron

Options

- Multiple manifold configurations
- Pressure drop indicator
- Support stands
- Stainless steel construction
- Epoxy coated finish