530FF, 535FF STEEL FILTER GRILLES

MOUNTING/FASTENING:
- SM - SURFACE MOUNT

NOTE:
FOR SIDEWALL INSTALLATION, HINGE TABS MUST BE AT TOP.

TB - 15/16" T-BAR LAY-IN
- DUCT = D = CM - 4" (102)
- OUTSIDE STACK = D - 1/8" (3)
- FILTER SIZE = D - 1/4" (6)
- CEILING MODULE SIZE = CM
- OVERALL = CM - 1/4" (6)

17 - 9/16" TEUGAR OR BOLT SLOT
- CEILING MODULE = CM
- DUCT = CM - 4" (102)
- FILTER SIZE = D - 1/4" (6)
- OVERALL = CM - 1/4" (6)

530FF, 535FF PANEL MOUNTED FILTER GRILLES

3P - 15/16" T-BAR LAY-IN PANEL
- CEILING MODULE SIZE = CM
- OUTSIDE STACK = D - 1/8" (3)
- FILTER SIZE = D - 1/4" (6)
- PANEL OVERALL = CM - 1/4" (6)

916P - 9/16" T-BAR LAY-IN PANEL
- FILTER SIZE = D - 1/4" (6)
- PANEL OVERALL = CM - 1/8" (3)

7P - 9/16" TEUGAR OR BOLT SLOT T-BAR PANEL
- FILTER SIZE = D - 1/4" (6)
- PANEL OVERALL = CM - 5/8" (16)

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERSIONS. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC, SYMBOL:

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530FF, 535FF STEEL FILTER GRILLES

219694

2018/03/19

SHEET 1 OF 2 REV 0
BLADE ORIENTATION:

- L - BLADES ARE PARALLEL TO LONG DIMENSION
- S - BLADES ARE PARALLEL TO SHORT DIMENSION

FILTER SIZE:

- 1" - FILTER FRAME ACCEPTS 1" FILTER
- 2" - FILTER FRAME ACCEPTS 2" FILTER

MATERIAL:

STEEL CONSTRUCTION

FINISHES:

- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

NOTES:

SURFACE MOUNT:

- MIN. SIZE: 8" X 4" (203 X 102)
- MAX. SIZE: 48" X 48" (1219 X 1219)

T-BAR LAY-IN MOUNT:

- 12" X 12" (305 X 305)
- 24" X 12" (610 X 305)
- 24" X 24" (610 X 610)
- 48" X 24" (1219 X 610)

LISTED SIZE FOR T-BAR MOUNTING IS THE CEILING MODULE SIZE.

LISTED SIZE FOR SURFACE MOUNTING IS THE NOMINAL DUCT SIZE.

MOUNTING HOLES IN FILTER FRAME BY INSTALLER.

3P, 916P & 17P T-BAR LAY-IN PANEL MOUNTED:

- CEILING MODULE: 24" X 24" (610 X 610)
- INLET SIZE: MIN. 6" X 6" (152 X 152), MAX. 18" X 18" (457 X 457)
- CEILING MODULE: 48" X 24" (1219 X 610)
- INLET SIZE: MIN. 6" X 6" (152 X 152), MAX. 42" X 18" (1067 X 457)

FILTER MEDIA SUPPLIED BY OTHERS

QUARTER TURN FASTENER LOCATION PER FACTORY STANDARD.

FACTORY TOLERANCE +/- 1/32" (1)

FASTENER ORIENTATION:

- HL - HINGE TABS ARE PARALLEL TO LONG DIMENSION
- HS - HINGE TABS ARE PARALLEL TO SHORT DIMENSION

- OR - 1/4 TURN FASTENERS ONLY

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 219694

SPEC. SYMBOL: 2018/03/19

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53OFF, 535FF
STEEL FILTER GRILLES
630FF, 635FF ALUMINUM FILTER GRILLES

□ SM - SURFACE MOUNT

- Nominal Duct = D
- Outside Stack = D - 1/8" (3)
- Filter Size = D - 1/4" (6)

Overall = D + 2 3/8" (51)

□ TB - 15/16" T-BAR LAY-IN

- Duct = D
- Outside Stack = D - 1/8" (3)
- Filter Size = D - 1/4" (6)

Overall = CM - 1/4" (6)

Ceiling Module Size = CM

630FF, 635FF PANEL MOUNTED FILTER GRILLES

□ 3PA - 15/16" T-BAR LAY-IN PANEL

- Ceiling Module Size = CM
- Filter Size = D - 1/4" (6)

Panel Opening = Nom. Grille Size + 1 13/16 (46)

Panel Overall = CM - 1/4" (6)

□ 916PA - 9/16" T-BAR LAY-IN PANEL

- Ceiling Module = CM
- Filter Size = D - 1/4" (6)

Panel Opening = 9/16" (14)

Panel Overall = CM - 1/8" (3)

□ 17PA - 9/16" TEGULAR OR BOLT SLOT T-BAR PANEL

- Ceiling Module = CM
- Filter Size = D - 1/4" (6)

Panel Opening = 9/16" (14)

Panel Overall = CM - 5/8" (16)

All metric dimensions ( ) are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2018/03/19

SPEC. SYMBOL: 630FF, 635FF ALUMINUM FILTER GRILLES

239549

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BLADE ORIENTATION:

- L - Blades are parallel to long dimension
- S - Blades are parallel to short dimension

FILTER SIZE:

- T" - Filter frame accepts 1" filter
- 2" - Filter frame accepts 2" filter

MATERIAL:

Aluminum construction

FINISHES:

- 812 White
  (Optional finishes available)

NOTES:

- Surface mount:
  Min. size: 6" x 4" (203 x 102)
  Max. size: 48" x 48" (1219 x 1219)
- T-bar lay-in mount:
  12" x 12" (305 x 305)
  24" x 12" (610 x 305)
  24" x 24" (610 x 610)
  48" x 24" (1219 x 610)
  48" x 48" (1219 x 1219)
- Listed size for T-bar mounting is the ceiling module size.
- Listed size for surface mounting is the nominal duct size.
- Mounting holes in filter frame by installer.

- 3PA, 916PA & 17PA T-bar lay-in panel mounted:
  Ceiling module: 24" x 24" (610 x 610)
  Inlet size: Min. 6" x 6" (152 x 152), Max. 18" x 18" (457 x 457)
  Ceiling module: 48" x 24" (1219 x 610)
  Inlet size: Min. 6" x 6" (152 x 152), Max. 42" x 18" (1067 x 457)
- Filter media supplied by others
- Quarter turn fastener location per factory standard.
- MRI compatible construction optional - requires QR fastening
- Factory tolerance +/- 1/32" (1)

FASTENER ORIENTATION:

- HL - Hinge tabs are parallel to long dimension
- HS - Hinge tabs are parallel to short dimension
- QR - 1/4 turn fasteners only

DIMENSIONING SCHEDULE

<table>
<thead>
<tr>
<th>FILTER SIZE</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1(25)</td>
<td>2 3/16 (56)</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2(51)</td>
<td>3 3/16 (81)</td>
</tr>
</tbody>
</table>

Core styles:

- 630FF - 3/4" blade spacing
- 635FF - 1/2" blade spacing

All metric dimensions ( ) are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.

PROJECT: 630FF, 635FF Aluminum filter grilles

ENGINEER: 630FF, 635FF

CUSTOMER: ALUMINUM FILTER GRILLES

SUBMITTAL DATE: 2018/03/19
80OFF STEEL FILTER GRILLES

MOUNTING/FASTENING:
- Nominal Duct = D
- Outside Stack = D - 1/8" (3)
- Filter Size = D - 1/4" (6)
- Notch Ceiling/Wall to Clear Hinge Keeper and Screw

SM - Surface Mount

TB - 15/16" T-Bar Lay-In

Filter Size:
- 1" - Filter Frame
  Accepts 1" Filter
- 2" - Filter Frame
  Accepts 2" Filter

Dimensioning Schedule:

<table>
<thead>
<tr>
<th>FILTER SIZE</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1&quot;</td>
<td>25⁰ (25)</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2&quot;</td>
<td>35⁰ (51)</td>
</tr>
</tbody>
</table>

Fastener Orientation:
- HL - Hinge Tabs are Parallel to Long Dimension
- HB3 - Hinge Tabs are Parallel to Short Dimension
- QR - 1/4 Turn Fasteners Only

Material:
- Steel Construction
  - B12 White

Notes:
- Surface Mount: (Listed sizes are the nominal duct sizes)
  - Min. Size = 8" x 4" (203 x 102)
  - Max. Size = 48" x 24" (1219 x 610)
- T-Bar Lay-In Mount: (Listed sizes are the ceiling module sizes)
  - 12" x 12" (305 x 305)
  - 24" x 12" (610 x 305)
  - 24" x 24" (610 x 610)
  - 48" x 24" (1219 x 610)
- 3P, 916P & 17P T-Bar Lay-In Panel Mounted:
  - Ceiling Module: 24" x 24" (610 x 610)
  - Inlet Size: Min. 6" x 6" (152 x 152), Max. 18" x 18" (457 x 457)
  - Ceiling Module: 48" x 24" (1219 x 610)
  - Inlet Size: Min. 6" x 6" (152 x 152), Max. 42" x 18" (1067 x 457)
- Mounting Holes in Filter Frame by Installer.
- Filter Media Supplied by Others.
- Quarter Turn Fastener Location Per Factory Standard.

Note:
- For sidewall installation, hinge tabs must be at top.

Contact for more information.

Project: 80OFF
Egg crate face filter grilles

Engineer:
Customer:
Submittal Date: 2018/03/12
Spec. Symbol: 222011

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10AFF - ALUMINUM PERFORATED FACE FILTER RETURN

MATERIAL:
ALUMINIUM CONSTRUCTION

FINISH:
□ B12 WHITE  
(OPTIONAL FINISHES AVAILABLE)

FILTER SIZE:
□ 1" - FILTER FRAME ACCEPTS 1" FILTER  
□ 2" - FILTER FRAME ACCEPTS 2" FILTER

FASTENER ORIENTATION:
□ HL HINGE PINS ARE PARALLEL TO LONG DIMENSION  
□ HS HINGE PINS ARE PARALLEL TO SHORT DIMENSION  
□ QR - 1/4 TURN FASTENERS ONLY

NOTES:
• SURFACE MOUNT: (LISTED SIZES ARE THE NOMINAL DUCT SIZES)  
  MIN. SIZE: 8" X 4" (203 X 102)  
  MAX. SIZE: 24" X 24" (610 X 610)  
• T-BAR LAY-IN MOUNT: (LISTED SIZES ARE THE CEILING MODULE SIZES)  
  12" X 12" (305 X 305)  
  24" X 12" (610 X 305)  
  24" X 24" (610 X 610)  
• 3PA, 9/16PA & 17PA T-BAR LAY-IN PANEL MOUNTED:  
  CEILING MODULE: 24" X 24" (610X610)  
  INLET SIZE: MIN. 6"X6" (152X152), MAX. 18" X 18" (457X457)  
  CEILING MODULE: 48" X 24" (1219 X 610)  
  INLET SIZE: MIN. 6"X6" (152X152), MAX. 24" X 18" (610X457)  
• MOUNTING HOLES IN FILTER FRAME BY INSTALLER  
• FILTER MEDIA SUPPLIED BY OTHERS  
• QUARTER TURN FASTENER LOCATION PER FACTORY STANDARD  
• MRI COMPATIBLE CONSTRUCTION OPTIONAL - REQUIRES QR FASTENING  
• FACTORY TOLERANCE +/- 1/32" (1)

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:  
2014/05/27  
249940  

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10FF STEEL FILTER GRILLES

MOUNTING/FASTENING:
- Nominal Duct = D
- Outside Stack = D - 1/8" (3)
- Filter Size = D - 1/4" (6)
- Notch Ceiling/Wall to Clear Hinge Keeper and Screw

FILTER SIZE:
- 1" - Filter Frame Accepts 1" Filter
- 2" - Filter Frame Accepts 2" Filter

HINGE ORIENTATION:
- HL - Hinge Tabs Are Parallel to Long Dimension
- HS - Hinge Tabs Are Parallel to Short Dimension
- OR - 1/4 Turn Fasteners Only

PERFORATED STEEL

DIMENSIONING SCHEDULE

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<thead>
<tr>
<th>FILTER SIZE</th>
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<tbody>
<tr>
<td>1&quot;</td>
<td>1&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
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<td></td>
<td>(59)</td>
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<tr>
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<td>2&quot;</td>
<td>3½&quot;</td>
</tr>
<tr>
<td>(51)</td>
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<td>(85)</td>
</tr>
</tbody>
</table>

NOTE:
- For sidewall installation, hinge tabs must be at top.

MATERIAL:
- Steel Construction
- B12 White

FINISHES:
- Optional finishes available

NOTES:
- Surface Mount: (Listed sizes are the nominal duct sizes)
  - Min. Size = 8" x 4" (203 x 102)
  - Max. Size = 48" x 24" (1219 x 610)
- T-Bar Lay-In Mount: (Listed sizes are the ceiling module sizes)
  - 12" x 12" (305 x 305)
  - 24" x 12" (610 x 305)
  - 24" x 24" (610 x 610)
  - 48" x 24" (1219 x 610)
- 3P, 916P & 17P T-Bar Lay-In Panel Mounted:
  - Ceiling Module: 24" x 24" (610 x 610)
  - Inlet Size: Min. 6" x 6" (152 x 152), Max. 18" x 18" (457 x 457)
  - Ceiling Module: 48" x 24" (1219 x 610)
  - Inlet Size: Min. 6" x 6" (152 x 152), Max. 42" x 18" (1067 x 457)
  - Mounting holes in filter frame by installer.
  - Quarter-turn fastener location per factory standard.
  - Filter media supplied by others.

All metric dimensions ( ) are soft converted, Imperial dimensions are converted to metric and rounded to the nearest millimeter.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL: 2018/03/12

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10FF
FERF. FACE
FILTER GRILLES

PRICE

SHEET 1 OF 1 REV C