LFD LAMINAR FLOW DIFFUSER

**Nominal Inlet** - 1/8 [3]

Optional Damper (Open Position Shown)

Optional External Insulation

Hanger Brackets

Plug Only Included with Optional Face Adjustable Damper

T-Bar (Not Included)

See: Unitree CR or HR

Surface Mount Detail

Surface Mount

Actual Opening = Nominal Size - 1/4" [6]

T-Bar Mount

Ceiling Module = Nominal Size

Steel Channel Blocking & Fastening by Others. Use Shims to Center Diffuser in Opening Against Blocking.

**Nominal Sizes**

<table>
<thead>
<tr>
<th>Imperial</th>
<th>Hard Metric</th>
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</thead>
<tbody>
<tr>
<td>INLET SIZES</td>
<td>W x L</td>
</tr>
<tr>
<td>6, 8</td>
<td>12x24</td>
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<tr>
<td>6, 8</td>
<td>12x36</td>
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<tr>
<td>6, 8</td>
<td>12x48</td>
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<tr>
<td>6, 8</td>
<td>12x60</td>
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<tr>
<td>6, 8</td>
<td>12x72</td>
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<tr>
<td>6, 8, 10, 12</td>
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</tr>
</tbody>
</table>

**Standard Construction:**
- Spot Welded Corner Seams
- Stainless Steel Quick Release [1/4 Turn] Fasteners
- Dual Chamber Design - Engineered Equalization Baffle
- Stainless Steel Retainer Cables Two per Unit

**Plenum Material:**
- Aluminum
- Stainless Steel - 304
- Steel

**Plenum Finish:**
- White Powder Coat - B12
- Stainless Steel - 2B (Optional Finishes Available)

**Options:**
- Continuously Welded Plenum, Spot Welded Inlet (Not Available with Steel Plenum)
- 0.5" Thick Aluminum Foil-Backed Fiberglass External Insulation
- Butterfly Damper - White Powder Coated Steel Blades
- Butterfly Damper - Stainless Steel Blades
- Face Adjustable Butterfly Damper - White Powder Coated Steel Blades
- Face Adjustable Butterfly Damper - Stainless Steel Blades

**Notes:**
- Factory Tolerance: +/- 1/32(1)

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

**PROJECT:**

DK

LFD

LAMINAR FLOW DIFFUSER

**ENGINEER:**

CUSTOMER:

SUBMITTAL DATE: 266866

SPEC. SYMBOL: 2017/10/24

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LFD3 LAMINAR FLOW DIFFUSER

SURFACE MOUNT

ACTUAL OPENING = NO. SIZE - 13/16" [21]

4 3/4" [12]

2" [5]

STEEL CHANNEL, BLOCKING & FASTENER
BY OTHERS

T-BAR MOUNT

CEILING MODULE = NO. SIZE

OPTIONAL DAMPER
FACE ACCESS PLUG

OVERALL = NO. SIZE - 1/4" [6]

OPTIONAL DAMPER
FACE ACCESS PLUG

SURFACE MOUNT DETAIL:
[UNINSULATED PLENUMS ONLY]

T-BAR MOUNT DETAIL:

QUICK RELEASE
[1/4 TURN]

FASTENERS

STANDARD CONSTRUCTION:
• CONTINUOUSLY WELDED CORNERS
• QUICK RELEASE [1/4 TURN]
• FASTENERS - STAINLESS STEEL
• CONE DAMPER
• REMOVABLE BAFFLE PACK
• TWO STAINLESS STEEL RETAINTER CABLES PER UNIT

OPTIONS:
• AFI-0.5: 0.5" THICK ALUMINUM FOIL - BACKED INSULATION
• AFI-1.5: 1.5" THICK ALUMINUM FOIL - BACKED INSULATION
• BRAPP - BALANCING ROOMSIDE ACCESS PORT & PLUG
• PF - PROTECTIVE FILM

NOTES:
• FACTORY TOLERANCE +/1 1/32" [1]

PLENUM MATERIAL:
• ALUMINUM
• STAINLESS STEEL - 304

FACE MATERIAL:
• ALUMINUM (EXTRUDED FRAMES)
• STAINLESS STEEL - 304

PLENUM FINISH:
• WHITE POWDER COAT - B12
• BRIGHT WHITE - B11
• CUSTOM MATCHED COLOR - B25
• STAINLESS STEEL - 2B
(ONE OPTION FINISHES AVAILABLE)

FACE AND FRAME FINISH:
• WHITE POWDER COAT - B12
• BRIGHT WHITE - B11
• CUSTOM MATCHED COLOR - B25
• STAINLESS STEEL - #4
(ONE OPTION FINISHES AVAILABLE)

NOMINAL SIZES

INLET SIZES

IMPERIAL METRIC

L x W L x W

6 24 x 12 [610 x 305] 600 x 300

6 36 x 12 [914 x 305] 900 x 300

6 48 x 12 [1219 x 305] 1200 x 300

6 60 x 12 [1524 x 305] 1500 x 300

6 72 x 12 [1829 x 305] 1800 x 300

8, 10, 12 24 x 24 [610 x 610] 600 x 600

8, 10, 12 36 x 24 [914 x 610] 900 x 600

8, 10, 12 48 x 24 [1219 x 610] 1200 x 600

8, 10, 12 60 x 24 [1524 x 610] 1500 x 600

8, 10, 12 72 x 24 [1829 x 610] 1800 x 600

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