The Donn® brand air diffuser provides air delivery and return for the ceiling system. Air is supplied through the lay-in diffuser, which is placed on the 2’ x 2’, narrow-suspension module. The plenum rests on the diffuser, which completes the installation.

The diffuser can be used for return air as well as supply. However, air is more commonly returned through slots in light fixtures, a method which also helps cool lamps to more efficient operating temperatures.

### Components

**Diffuser**
- The Donn air diffuser interfaces with the ceiling surface to maintain visual appeal and provide a clean, discreet slot for air flow.
- Designed to fit flush with Fineline® suspensions and to provide a slight reveal edge for a bolder look with Centricitee™ suspensions.
- Four-way throw capability provides optimum directional control.
- Available in one-, two-, three-, or four-slot versions for maximum flexibility in air delivery.

**Plenum**
The Donn air diffuser plenum is internally insulated and made of galvanized steel. The plenum nests into the diffuser frame and is available with standard collar sizes to suit air delivery requirements.

**Details**

---

![Diagram of Donn Air Diffuser](image)
Technical Data

Donn® Air Diffuser

One-Slot Diffuser

8" collar standard
(6" collar optional)

insulation

plenum

diffuser frame

field-cut foil-backed USG ceiling panel

Two-Slot Diffuser

8" collar standard
(6" collar optional)

insulation

plenum

diffuser frame

field-cut foil-backed USG ceiling panel

plenum

two-slot diffuser frame
Three-Slot Diffuser

Four-Slot Diffuser
### Technical Data

#### Donn® Air Diffuser

##### DONN Air Throw
One-Slot Air Diffuser

---

**Static Pressure**

![Graph: Static Pressure vs. CFM Capacity]

**Noise Criteria**

![Graph: Noise Criteria vs. CFM Capacity]

---

**Balancing Air Diffusers**

\( A_w = 0.238 \)

**Velometer Measurement Points**

**Probe Location**

(3802 Velometer Probe)

Note: When balancing the units, use the average of the readings at each probe location.

---

**Return-Air Data**

**One-Slot Diffuser**

- Open Area Sq. Ft.: 0.31
- CFM Capacity @ 500 FPM: 150
- Collar Size if Ducted: 8

---

**Test Report No. 457880**

Note: Terminal velocity 50 FPM.
## DONN Air Throw

### Two-Slot Air Diffuser

- **Note:** Terminal velocity 50 FPM.

### Static Pressure

<table>
<thead>
<tr>
<th>CFM</th>
<th>200 CFM</th>
<th>300 CFM</th>
<th>400 CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>INLET STATIC PRESSURE INCHES WATER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>170</td>
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<td></td>
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<td>190</td>
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<td>210</td>
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<td>390</td>
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<td>410</td>
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<td>430</td>
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<td>450</td>
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<tr>
<td>590</td>
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</tr>
</tbody>
</table>

### Noise Criteria

- **Note:** Test Report No. 457880

### Balancing Air Diffusers

- **A_k = .413**

- **Velometer Measurement Points**

- **Probe Location (3002 Velometer Probe)**

- **Note:** When balancing the units, use the average of the readings at each probe location.

### Return-Air Data

<table>
<thead>
<tr>
<th>Two-Slot Diffuser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Area Sq. Ft.</td>
</tr>
<tr>
<td>CFM Capacity @ 500 FPM</td>
</tr>
<tr>
<td>Collar Size if Ducted</td>
</tr>
</tbody>
</table>
Technical Data

Donn® Air Diffuser

**Donn® Air Throw**

Three-Slot Air Diffuser

<table>
<thead>
<tr>
<th>CFM</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
<th>10'</th>
<th>11'</th>
<th>12'</th>
<th>13'</th>
<th>14'</th>
<th>15'</th>
<th>16'</th>
<th>17'</th>
<th>18'</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 CFM</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>400 CFM</td>
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<tr>
<td>500 CFM</td>
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</tr>
</tbody>
</table>

**Note:** Terminal velocity 50 FPM.

### Static Pressure

![Static Pressure Graph]

**Test Report No. 457880**

### Noise Criteria

![Noise Criteria Graph]

**Test Report No. 457880**

### Balancing Air Diffusers

**A<sub>c</sub> = .344**

### Volumeter Measurement Points

![Volumeter Measurement Points Diagram]

### Probe Location (3002 Volumeter Probe)

![Probe Location Diagram]

**Note:** When balancing the units, use the average of the readings at each probe location.

### Return-Air Data

<table>
<thead>
<tr>
<th>Three-Slot Diffuser</th>
<th>Open Area Sq. Ft.</th>
<th>CFM Capacity @ 500 FPM</th>
<th>Collar Size if Ducted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>.84</td>
<td>420</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>

**Technical Data**
**DONN Air Throw**

**Four-Slot Air Diffuser**

**Note:** Terminal velocity 50 FPM.

**Static Pressure**

**Noise Criteria**

**Balancing Air Diffusers**

\[ A_k = 0.317 \]

**Velometer Measurement Points**

**Probe Location**

(3002 Velometer Probe)

**Note:** When balancing the units, use the average of the readings at each probe location.

**Return-Air Data**

**Four-Slot Diffuser**

- Open Area Sq. Ft.: 1.06
- CFM Capacity @ 500 FPM: 530
- Collar Size if Ducted: 14"
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