**DUCT MOUNTED AIRFLOW MEASUREMENT STATIONS**

Integral Flow Straightener, Ideal for Turbulent Measuring Conditions

The Series STRA® Duct Mounted Airflow Measurement Stations utilize an airflow averaging element generating a velocity pressure signal similar to the orifice, venturi, and other primary elements. Single or multiple airflow elements are factory mounted and pre-piped in a casing designed for flanged connection to the ductwork. Multiple elements are joined together for connection to a differential measurement device (gage, transmitter, etc.) for flow measurement and indication purposes. It has been developed with a honeycomb airflow straightening section for use in duct systems having highly turbulent conditions at the point of measurement.

**FEATURES/BENEFITS**
- Honeycomb airflow straightening section with 1/2 opening by 3” depth
- Low signal-to-noise ratio
- Factory mounted and pre-piped in a flanged duct section (casing)
- Standard construction includes galvanized casing and 6063-T5 anodized aluminum flow sensors
- Standard airflow stations can be operated (in air) continuously in temperatures up to 350°F or intermittently in temperatures up to 400°F

**APPLICATIONS**
- Building air intake and exhaust flow rate measurement
- HVAC air flow measurement

### Circular Models

**STRAC**

**DIMENSIONS - CIRCULAR FLANGE**

<table>
<thead>
<tr>
<th>Station Size “D”</th>
<th>Flange Thickness</th>
<th>Flange Size “F”</th>
<th>Casing Length “L”</th>
</tr>
</thead>
<tbody>
<tr>
<td>8” - 15”</td>
<td>.064”</td>
<td>1-1/2”</td>
<td>8”</td>
</tr>
<tr>
<td>16” - 44”</td>
<td>.064”</td>
<td>1-1/2”</td>
<td>8”</td>
</tr>
<tr>
<td>45” - 72”</td>
<td>.188”</td>
<td>1-1/2”</td>
<td>10”</td>
</tr>
<tr>
<td>73” &amp; over</td>
<td>.188”</td>
<td>2”</td>
<td>12”</td>
</tr>
</tbody>
</table>

### Rectangular or Oval Models

**STRAD**

**CONFIGURATION**

- R – Rectangular
- O – Oval

**STANDARD OPTIONS**

- IM – Internal pressure connections
- F – Flange for oval mount station

**SPECIFICATIONS**

- **Accuracy:** Within 2% of actual flow when installed in accordance with published recommendations.
- **K Factor:** 0.97.
- **Velocity Range:** 100 to 10,000 FPM (0.51 to 51 m/s).
- **Wetted Materials:** Elements: 6063-T5 anodized aluminum; Casings: 16 ga G90 galvanized steel, 3003 aluminum air flow straightener.
- **Temperature Limits:** Galvanized casings and aluminum elements 350°F (177°C) continuous operation (in air), 400°F (204°C) intermittent operation (in air).
- **Humidity Limits:** All airflow stations 0 to 100% non condensing.
- **Process Connections:** 1/4” compression fittings.

### Flow Sensors

**AIR QUALITY**

**DIMENSIONS - CIRCULAR FLANGE**

<table>
<thead>
<tr>
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### ALL DIMENSIONS

- **Rectangular or Oval Models:**
  - **DIMENSIONS - CIRCULAR FLANGE**
  - **DIMENSIONS - OVAL FLANGE (OPTIONAL)**
  - **DIMENSIONS - RECTANGULAR FLANGE**

**Note:** When ordering rectangular or oval flow stations, pressure taps will always be located on the longer of the two dimensions.

***Metric dimensions available upon request.**
### Duct Mounted Airflow Measurement Station

**Integral Flow Straightener, Ideal for Turbulent Measuring Conditions**

<table>
<thead>
<tr>
<th>Size</th>
<th>8˝</th>
<th>10˝</th>
<th>12˝</th>
<th>14˝</th>
<th>16˝</th>
<th>18˝</th>
<th>20˝</th>
<th>22˝</th>
<th>24˝</th>
<th>26˝</th>
<th>28˝</th>
<th>30˝</th>
<th>32˝</th>
<th>34˝</th>
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</thead>
<tbody>
<tr>
<td>Price</td>
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<td>$335.00</td>
<td>$343.00</td>
<td>$350.00</td>
<td>$357.00</td>
<td>$364.00</td>
<td>$369.00</td>
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<td>$398.00</td>
<td>$403.00</td>
<td>$409.00</td>
<td>$417.00</td>
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</tbody>
</table>

**Note:**
- When ordering rectangular or oval flow stations, pressure taps will always be located on the longer of the two dimensions.

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### Flow Sensors

**Model Chart - Series STRA Rectangular or Oval**

<table>
<thead>
<tr>
<th>Size</th>
<th>40˝</th>
<th>44˝</th>
<th>48˝</th>
<th>52˝</th>
<th>56˝</th>
<th>60˝</th>
<th>66˝</th>
<th>72˝</th>
<th>78˝</th>
<th>84˝</th>
<th>90˝</th>
<th>102˝</th>
<th>108˝</th>
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<th>120˝</th>
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<tbody>
<tr>
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<td>$524.00</td>
<td>$537.00</td>
<td>$555.00</td>
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<td>$601.00</td>
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<td>$656.00</td>
<td>$677.00</td>
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<td>$727.00</td>
<td>$750.00</td>
<td>$751.00</td>
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</tbody>
</table>

**Note:**
- When ordering rectangular or oval flow stations, pressure taps will always be located on the longer of the two dimensions.

### OPTIONS

**To order add suffix:**
- ‐dM: Internal pressure connections (rectangular stations only)
- ‐f: Flange (oval stations only)

**Price:** +$111.00

**Multiply price by 1.5**

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### Model Chart - Series STRA Circular

<table>
<thead>
<tr>
<th>Size</th>
<th>8˝</th>
<th>10˝</th>
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<th>16˝</th>
<th>18˝</th>
<th>20˝</th>
<th>22˝</th>
<th>24˝</th>
<th>26˝</th>
<th>28˝</th>
<th>30˝</th>
<th>32˝</th>
<th>36˝</th>
<th>40˝</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
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<td>$428.00</td>
<td>$555.00</td>
<td>$580.00</td>
<td>$626.00</td>
<td>$661.00</td>
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<td>$964.00</td>
<td>$1067.00</td>
<td>$1283.00</td>
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</tr>
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**Note:**
- All pricing is Schedule 40.
- Items are subject to Schedule B discounts.