DUCT MOUNTED AIRFLOW MEASUREMENT STATIONS

Rectangular, Oval or Circular Configurations

The Series FLST 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.

FEATURES/BENEFITS
- 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

**FLST-C**

DIAMETER (IN)*

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**DIMENSIONS - CIRCULAR FLANGE**

<table>
<thead>
<tr>
<th>Station Size &quot;D&quot;</th>
<th>Flange Thickness</th>
<th>Flange Size &quot;F&quot;</th>
<th>Casing Length &quot;L&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>8” - 15”</td>
<td>.064”</td>
<td>1”</td>
<td>6”</td>
</tr>
<tr>
<td>16” - 44”</td>
<td>.064”</td>
<td>1-1/2”</td>
<td>6”</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>

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**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 (0.51-51 m/s).
Wetted Material: Elements: 6063-T5 anodized aluminum; Casings: 16 ga G90 galvanized steel.
Temperature Limits: Galvanized casings and aluminum elements 350°F (177°C) continuous operation (in air) 400°F (204°C) intermittent operation (in air).
Humidity: All airflow stations 0 to 100% non condensing.
Process Connections: 1/4” compression fittings.

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**DIMENSIONS - OVAL FLANGE**

<table>
<thead>
<tr>
<th>Station Width &quot;W&quot;</th>
<th>Flange Thickness</th>
<th>Flange Size &quot;F&quot;</th>
<th>Casing Length &quot;L&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 48”</td>
<td>.064”</td>
<td>1-1/2”</td>
<td>6”</td>
</tr>
<tr>
<td>Over 48”</td>
<td>.188”</td>
<td>1-1/2”</td>
<td>8”</td>
</tr>
</tbody>
</table>

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**DIMENSIONS - RECTANGULAR FLANGE**

<table>
<thead>
<tr>
<th>Station Size &quot;H&quot; or &quot;W&quot;</th>
<th>Flange Size &quot;F&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>8” - 72”</td>
<td>1-1/2”</td>
</tr>
<tr>
<td>73” &amp; Over</td>
<td>2”</td>
</tr>
</tbody>
</table>

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**SERIES FLST CONFIGURATIONS**

R – Rectangular
O – Oval

**OPTION**

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

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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 Stations

**Rectangular, Oval or Circular Configurations**

#### Model Chart - Series FLST Rectangular or Oval

<table>
<thead>
<tr>
<th>Size</th>
<th>8&quot;</th>
<th>10&quot;</th>
<th>12&quot;</th>
<th>14&quot;</th>
<th>16&quot;</th>
<th>18&quot;</th>
<th>20&quot;</th>
<th>22&quot;</th>
<th>24&quot;</th>
<th>26&quot;</th>
<th>28&quot;</th>
<th>30&quot;</th>
<th>32&quot;</th>
<th>34&quot;</th>
<th>36&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$281.00</td>
<td>$282.00</td>
<td>$289.00</td>
<td>$298.00</td>
<td>$296.00</td>
<td>$305.00</td>
<td>$304.00</td>
<td>$305.00</td>
<td>$308.00</td>
<td>$307.00</td>
<td>$313.00</td>
<td>$319.00</td>
<td>$329.00</td>
<td>$341.00</td>
<td>$354.00</td>
</tr>
</tbody>
</table>

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

#### Model Chart - Series FLST Rectangular or Oval

<table>
<thead>
<tr>
<th>Size</th>
<th>40&quot;</th>
<th>44&quot;</th>
<th>48&quot;</th>
<th>52&quot;</th>
<th>56&quot;</th>
<th>60&quot;</th>
<th>66&quot;</th>
<th>72&quot;</th>
<th>78&quot;</th>
<th>84&quot;</th>
<th>90&quot;</th>
<th>96&quot;</th>
<th>102&quot;</th>
<th>108&quot;</th>
<th>114&quot;</th>
<th>120&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
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<td>$388.00</td>
<td>$405.00</td>
<td>$456.00</td>
<td>$474.00</td>
<td>$508.00</td>
<td>$526.00</td>
<td>$531.00</td>
<td>$560.00</td>
<td>$582.00</td>
<td>$600.00</td>
<td>$617.00</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</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:**
- **-I** Internal pressure connections (rectangular stations only)
- **-F** Flange (oval stations only)
- **-SS1** 316 SS elements with 16 GA galvanized casing
- **-SS2** 316 SS elements with 16 GA 304 SS casing
- **-SS3** 316 SS elements with 16 GA 316 SS casing

**Price:** Multiply price by: 1.5, 3.2, 4.2, 4.7

### Model Chart - Series FLST Circular

<table>
<thead>
<tr>
<th>Size</th>
<th>8&quot;</th>
<th>10&quot;</th>
<th>12&quot;</th>
<th>14&quot;</th>
<th>16&quot;</th>
<th>18&quot;</th>
<th>20&quot;</th>
<th>22&quot;</th>
<th>24&quot;</th>
<th>26&quot;</th>
<th>28&quot;</th>
<th>30&quot;</th>
<th>32&quot;</th>
<th>34&quot;</th>
<th>36&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$355.00</td>
<td>$375.00</td>
<td>$495.00</td>
<td>$525.00</td>
<td>$555.00</td>
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<td>$606.00</td>
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<td>$714.00</td>
<td>$777.00</td>
<td>$642.00</td>
<td>$989.00</td>
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**Note:** All pricing is Schedule 10. Items are subject to Schedule B discounts.

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**Dwyer Instruments, Inc.**

**dwyer-inst.com**

**Air Quality**

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