Features and Benefits

- Ergonomic design and ultra light weight for easy one person operation
- Detachable digital manometer for use in other applications
- Use with Pitot, air flow, temperature, velocity matrix, or relative humidity probes
- Back pressure compensation
- Bio-Safety hood kit available

Manometer

**Model EBT720**

The EBT720 is one of the most advanced, versatile, and easy to use manometers on the market today. Auto-zeroing allows you to make measurements throughout the day. The velocity matrix accessory is useful in measuring face velocity through filters, coils, and other specialized spaces.

Features and Benefits

- Accurately measures pressure, velocity (Pitot), and flow
- Large, easy to read display
- Data logging and downloading software included
- Automatic density correction

EBT Balometer® Capture Hood

**Model EBT721**

The EBT721 Balometer® Capture Hood is a multipurpose electronic air balancing instrument for reading air volume flow at diffusers and grilles. It is ideally suited for commissioning agents, test and balance contractors, facilities managers, health and safety specialists, and ventilation installers. This light weight, ergonomically designed kit saves time and money while helping to create a healthy and energy efficient environment.
Applications

- HVAC commissioning
- Clean room certification
- Troubleshooting HVAC systems
- Testing and balancing HVAC systems

Optional Accessories for EBT720 AND EBT721

- Pitot tubes
- 16-point velocity matrix with telescoping handle
- Air flow probe
- Temperature probe
- Temperature/humidity probe
- Multiple hood sizes available
- Bio-safety cabinet hood kit

<table>
<thead>
<tr>
<th>Optional Accessories</th>
<th>Description / Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Airflow Probe 800187</strong></td>
<td>18” (46 cm) straight probe that can be used to perform a duct traverse and to measure face velocity measurements in applications such as chemical fume hoods, HEPA filters, or other laminar flow devices. Ideal for small diameter ductwork.</td>
</tr>
<tr>
<td><strong>Velocity Matrix 801090</strong></td>
<td>Used to measure face velocities of HEPA filters, chemical fume hoods, laminar flow benches, filter banks, kitchen exhausts, and other applications where a large surface area needs to be measured. The 16 point grid covers one square foot area and averages the air velocity while minimizing the affects of turbulence to produce a stable reading.</td>
</tr>
<tr>
<td><strong>Temperature Probe 800218</strong></td>
<td>Telescopic probe extends from 9 to 40.5 inches (230 to 1030 mm) and can be inserted into a standard 5/16 in. (8 mm) diameter hole typically used for pitot traverses.</td>
</tr>
<tr>
<td><strong>Temperature and Humidity Probe 800219</strong></td>
<td>Telescopic probe extends from 9 to 39 inches (230 to 990 mm) and is ideal for measuring inside of duct work before and after a coil. Probe can be inserted into a standard 5/16 in. (8 mm) diameter hole typically used for pitot traverses and can be used to calculate wet bulb and dewpoint temperatures.</td>
</tr>
</tbody>
</table>
**Specifications**
Models EBT720 and EBT721

### Velocity Range
- **Pitot probes**: 25 to 15,500 ft/min (0.125 to 78 m/s)
- **Air flow probe**: 25 to 15,500 ft/min (0.125 to 78 m/s)
- **Velocity matrix**: 25 to 5,000 ft/min (0.125 to 25 m/s)

### Accuracy
- ±3% of reading ± ft/min (±0.04 m/s) at velocities >50 ft/min (>0.25 m/s)
- Units: ft/min, m/s
- Resolution: 1 ft/min (0.01 m/s)

### Pressure
- **Differential pressure**: ±15 in. H2O (±3735 Pa), 150 in. H2O (37.5 kPa), maximum safe operating pressure ±15 in. H2O (±3735 Pa), 150 in. H2O (37.5 kPa)
- **Absolute pressure**: 15 to 40 in. Hg (356 to 1016 mm Hg)
- **Accuracy**: ±2% of reading ±0.001 in. H2O (±0.25 Pa) static and differential; ±2% of reading absolute
- **Units**: in. H2O, in. Hg, Pa, kPa, mm Hg, cm Hg, mm H2O, cm H2O
- **Resolution**: 0.00001 in. H2O (0.001 Pa) static and differential; 0.01 in. Hg (1 mm Hg) absolute

### Volume
- **Range**: 25 to 2,500 ft³/min (42 to 4250 m³/h) capture hood
- **Accuracy**: ±3% of reading ± ft³/min (±12 m³/h) at flows >50 ft³/min (>85 m³/h)
- **Units**: ft³/min, m³/h, m³/min, l/s
- **Resolution**: 1 ft³/min (1 m³/h)

### RH
- **Range**: 0 to 95% RH temperature/RH probe
- **Accuracy**: ±3% RH
- **Resolution**: 0.1% RH

### Temperature
- **Sensor in base**: 40 to 140°F (4.4 to 60°C)
- **Temperature probe**: -40 to 250°F (-40 to 121°C)
- **Temperature/RH probe**: 14 to 140°F (-10 to 60°C)
- **Accuracy**: ±0.5°F (±0.3°C) from 32 to 160°F (0 to 71°C)
- **Units**: °F, °C
- **Resolution**: 0.1°F (0.1°C)

### Instrument Temperature Range
- **Operating**: 40 to 140°F (4.4 to 60°C)
- **Storage**: -4 to 160°F (-20 to 71°C)

### Statistics
- min, max, average up to 1000 readings

### Data Storage
- 1,000 readings, time and date stamped

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**Logging Interval**
- User selectable

**Response Time**
- 2 to 8 seconds

**Display**
- 6 digit, 0.75 in. (19 mm) character height, multi-line, sectored, multiple symbolic icons, high-contrast backlit LCD

**Dimensions (manometer only)**
- 7.4 in. x 4.5 in. x 2.3 in. (18.8 cm x 11.4 cm x 5.8 cm)

**Pressure Connection**
- ¼ in. (6.35 mm) OD straight ports for use with ¼ in. (4.76 mm) ID flexible tubing

**Weight with Batteries**
- **EBT720**: 17 oz (0.5 kg)
- **EBT721**: 7.4 lb (3.4 kg)

**Power Requirements**
- Four AA-size cells or AC adapter

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<table>
<thead>
<tr>
<th>Feature</th>
<th>EBT720</th>
<th>EBT721</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air capture hood, frame and base</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Measures air volume/flow rate</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Static/Differential Pressure (air)</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Air velocity, temperature, relative humidity probes (optional)</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Pressure sensor</td>
<td>•</td>
<td>•</td>
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<tr>
<td>Automatic density correction</td>
<td>•</td>
<td>•</td>
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<tr>
<td>Backpressure compensation</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Data logging (download/recall)</td>
<td>•</td>
<td>•</td>
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<tr>
<td>Field calibration</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Statistics (minimum, maximum, average)</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Certificate of Calibration</td>
<td>•</td>
<td>•</td>
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</tbody>
</table>
Ordering Information

EBT720  Manometer with carrying case, 4 AA size rechargeable NiMH batteries, multi-country AC adapter, 18” Pitot probe, 2 Static Pressure probes, 16 ft Neoprene tubing, downloading software, RS-232 interface cable, NIST-traceable calibration certificate, and manual.

EBT721  2’ x 2’ air capture hood/frame/base, manometer with carrying case, 4 AA size rechargeable NiMH batteries, multi-country AC adapter, 18” Pitot probe, 2 Static Pressure probes, 16 ft Neoprene tubing, wheeled luggage-style carrying case, NIST-traceable calibration certification, downloading software, RS-232 interface cable, and manual.

Hood Sizes Available (EBT721)

<table>
<thead>
<tr>
<th>Standard Hood Kits</th>
<th>Optional Hood Kits</th>
<th>BSC Hood Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>801097  2 ft x 2 ft (610 mm x 610 mm)</td>
<td>801201  2 ft x 4 ft (610 mm x 1220 mm)</td>
<td>801204  8 in. x 22 in. (205 mm x 560 mm)</td>
</tr>
<tr>
<td>801200  1 ft x 4 ft (305 mm x 1220 mm)</td>
<td>801202  1 ft x 5 ft (305 mm x 1525 mm)</td>
<td>801205  10 in. x 22 in. (255 mm x 560 mm)</td>
</tr>
<tr>
<td>801203  3 ft x 3 ft (915 mm x 915 mm)</td>
<td>801209  16 in. x 16 in. (406 mm x 406 mm)</td>
<td></td>
</tr>
<tr>
<td>801210  5.25 in. x 4 ft (133 mm x 1220 mm)</td>
<td>801211  28 in. x 28 in. (710 mm x 710 mm)</td>
<td></td>
</tr>
<tr>
<td>801212  28 in. x 50 in. (710 mm x 1270 mm)</td>
<td>801209  16 in. x 16 in. (406 mm x 406 mm)</td>
<td></td>
</tr>
</tbody>
</table>

The BSC hood kits are used to certify Class II bio-safety cabinets by taking direct in-flow measurements for NSF compliance.

Recommended Accessories

| 800187  Air flow probe, 18 in. (46 cm) | 800218  Temperature probe |
| 800219  Humidity and temperature probe | 801090  Velocity matrix, telescopic handle, |
| 634634000  Pitot probe 5/16 in. (8 mm) diameter - 12 in. (30 cm) | 634634001  Pitot probe 5/16 in. (8 mm) diameter - 18 in. (46 cm) |
| 634634002  Pitot probe 5/16 in. (8 mm) diameter - 24 in. (61 cm) | 634634003  Pitot probe 5/16 in. (8 mm) diameter - 36 in. (91 cm) |
| 634634005  Pitot probe 5/16 in. (8 mm) diameter - 60 in. (152 cm) | 634650002  Duct plug, 3/8 in. (9.5 mm) diameter - 1000 pieces |
| 634650003  Duct plug, 3/8 in. (9.5 mm) diameter - 5000 pieces |  |

Specifications subject to change without notice.

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