



Model EBT731 (Accessories shown on following page)

# EBT Balometer Capture Hood Model EBT731

The EBT731 Balometer\* Capture Hood is a multipurpose electronic air balancing instrument primarily used for efficiently taking direct air volume readings at diffusers and grilles. It features a detachable micromanometer which can be used with optional probes for increased flexibility in multiple measurement applications.

Offering durable, trouble-free operation, this lightweight, ergonomically designed capture hood kit saves time and money by combining multiple measurement tools into one package. The EBT731 Balometer \*Capture Hood helps you create healthy and energy efficient environments while meeting local codes, guidelines and regulations for ventilation systems.

### Features and Benefits

- Ergonomic design and ultra light weight for easy, one-person operation
- Automatically senses and displays supply or return flows, saving time on the job
- Back pressure compensation ensures accurate readings
- Multiple hood sizes available for easy, cost effective use across multiple jobs
- Detachable digital micromanometer offers flexibility to use in multiple applications

## **Applications**

- Test and balance contractors
- Commissioning agents
- Facilities managers
- Health and safety specialists
- Ventilation system installers



Model EBT730 (Micromanometer shown with standard and optional accessories)

# Detachable Micromanometer Model EBT730

The EBT731 Balometer® Capture Hood includes a detachable EBT730 micromanometer—one of the most advanced, versatile, and easy to use micromanometers on the market today. The EBT730 features an auto-zeroing pressure sensor that increases measurement resolution and accuracy along with an intuitive menu structure for ease of operation.

#### **Features and Benefits**

- Accurately measures pressure, velocity and flow to help you meet industry standards
- Auto-zeroing pressure sensor reduces user-steps and saves time
- Automatic density correction increases reading accuracy
- Intuitive menu structure allows for ease of use and setup
- Large graphic display with backlight offers easy-to-use interface
  - Displays up to five measurements simultaneously
  - On-screen messages and instructions
  - Programmed for multiple languages
- Integrated Log-Tchebycheff duct traverse application simplifies calculations
- Bluetooth communications for transferring data or remote polling
  - Compatible with AiRNAB™ digital documentation system
- Includes downloading software with USB cable
- Accommodates optional pitot, air flow (straight pitot), temperature/relative humidity, velocity matrix, or thermoanemometer probes for use in multiple applications









# Air Volume Instruments

## Models EBT730 and EBT731

## **Specifications**

Models EBT730 and EBT731

**Velocity Range** 

 Pitot probes
 25 to 15,500 ft/min (0.125 to 78 m/s)

 Air flow probe
 25 to 5,000 ft/min (0.125 to 25 m/s)

 Velocity matrix
 25 to 2,500 ft/min (0.125 to 12.5 m/s)

 Accuracy
 ±3% of reading ±7 ft/min (±0.04 m/s) at

velocities >50 ft/min (>0.25 m/s)

Units ft/min, m/s Resolution ft/min (0.01 m/s)

Pressure

Differential pressure

±15 in. H<sub>2</sub>O (±3735 Pa); 150 in. H<sub>2</sub>O (37.5 kPa),

Absolute pressure maximum safe operating pressure 15 to 40 in. Hg (356 to 1016 mm Hg)  $\pm 2\%$  of reading  $\pm 0.0001$  in. H<sub>2</sub>O ( $\pm 0.025$  Pa)

static and differential; ±2% of reading absolute

**Units** in.  $H_2O$ , in. Hg, Pa, hPa, kPa, mm Hg,

cm  $H_{\overline{9}}$ , mm  $H_{2}$ 0, cm  $H_{2}$ 0,

**Resolution** 0.00001 in.  $H_2^0$  (0.001 Pa) static and

differential; 0.01 in. Hg (1 mm Hg) absolute

Volume

**Range** 25 to 2,500 ft<sup>3</sup>/min (42 to 4250 m<sup>3</sup>/h) capture hood

Accuracy  $\pm 3\%$  of reading  $\pm 7$  ft<sup>3</sup>/min ( $\pm 12$  m<sup>3</sup>/h) at

flows >50 ft<sup>3</sup>/min (>85 m<sup>3</sup>/h)

**Units** ft³/min, m³/h, m³/min, l/s

**Resolution** 1 ft<sup>3</sup>/min (1 m<sup>3</sup>/h)

RH

Range 5 to 95% RH temperature/RH probe

 $\begin{array}{lll} \textbf{Accuracy} & \pm 3\% \text{ RH} \\ \textbf{Resolution} & 0.1\% \text{ RH} \\ \end{array}$ 

Temperature

 $\begin{array}{lll} \textbf{Accuracy} & \pm 0.5^{\circ} F \; (\pm 0.3^{\circ} C) \\ \textbf{Units} & {}^{\circ} F, \; {}^{\circ} C \\ \textbf{Resolution} & 0.1^{\circ} F \; (0.1^{\circ} C) \\ \end{array}$ 

**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

**Data Storage** 

26,500 samples, time and date stamped

**Logging Interval** 

User selectable

**Response Time** 

2 to 8 seconds, differential pressure sensor

**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** 

 $\frac{1}{4}$  in. (6.35 mm) OD straight ports with barbed ends for use

with 3/16 in. (4.76 mm) ID flexible tubing

Weight with Batteries

**EBT730** 17 oz (0.5 kg) **EBT731** 7.4 lb (3.4 kg)

**Power Requirements** 

Four AA-size cells or AC adapter

**Ordering Information** 

**EBT730** Manometer with carrying case, 4 AA size

rechargeable NiMH batteries, multi-country AC adapter, 18 in. (46 cm) Pitot probe, 2 Static Pressure probes, 16 ft (4.8 m) Neoprene tubing, downloading software, USB interface cable, NIST-traceable calibration certificate, and manual.

**EBT731** 2 ft x 2 ft (610 mm x 610 mm) air capture

hood/frame/base, manometer with carrying case, 4 AA size rechargeable NiMH batteries, multi-country AC adapter, 18 in. (46 cm) Pitot probe, 2 Static Pressure probes, 16 ft (4.8 m) Neoprene tubing, wheeled luggage-style carrying case, NIST-traceable calibration certification, downloading software,

USB interface cable, and manual.

# Air Volume Instruments

### Models EBT730 and EBT731

#### Hood Sizes Available (EBT731)

Standard Hood Kits

801097 2 ft x 2 ft (610 mm x 610 mm)

#### Optional Hood Kits

801201	2 ft x 4 ft (610 mm x 1220 mm)
801200	1 ft x 4 ft (305 mm x 1220 mm)
801202	1 ft x 5 ft (305 mm x 1525 mm)
801203	3 ft x 3 ft (915 mm x 915 mm)
801209	16 in. x 16 in. (406 mm x 406 mm)
801210	5.25 in. x 4 ft (133 mm x 1220 mm)
801211	28 in. x 28 in. (710 mm x 710 mm)
801212	28 in. x 50 in. (710 mm x 1270 mm)

#### BSC Hood Kit

801204 8 in. x 22 in. (205 mm x 560 mm) 801205 10 in. x 22 in. (255 mm x 560 mm)

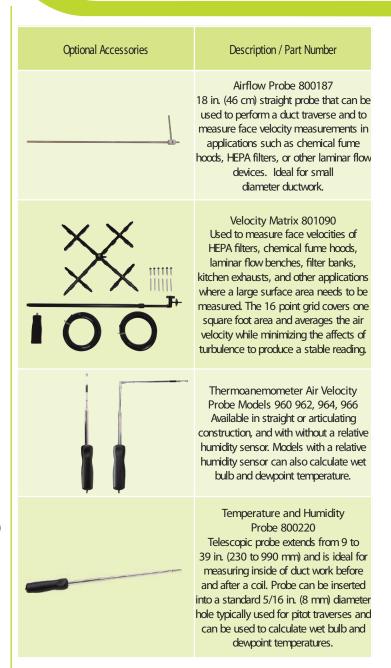
The BSC hood kits are used to certify Class II bio-safety cabinets by taking direct in-flow measurements for NSF compliance.

#### Recommended Accessories

800187	Air flow probe, 18 in. (46 cm)
800218	Temperature probe
800219	Humidity and temperature probe
801090	Velocity matrix, telescopic handle,
	(2) 8 ft. (2.4 m) neoprene tubing sections
960	Air Velocity and Temperature, Straight Probe
962	Air Velocity and Temperature, Articulating Probe
964	Air Velocity and Temperature and Humidity,
	Straight Probe
966	Air Velocity and Temperature and Humidity,
	Articulating Probe

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) Duct plug, 3/8 in. (9.5 mm) diameter - 1000 pieces 634650002 Duct plug, 3/8 in. (9.5 mm) diameter - 5000 pieces 634650003 8934 Wireless Bluetooth Printer

Specifications subject to change without notice.
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