ENERGY AND COMFORT

Air Volume Instruments

Model 8380
(Accessories shown on following page)

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
- Includes Swirl X Flow Conditioner for use with twist or swirl type supply air diffusers

Applications

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

AccuBalance® Air Capture Hood

Model 8380

The 8380 AccuBalance® Air 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 8380 AccuBalance Air Capture Hood helps you create healthy and energy efficient environments while meeting local codes, guidelines and regulations for ventilation systems.

Model 8715 *(Micromanometer shown with standard and optional accessories)*

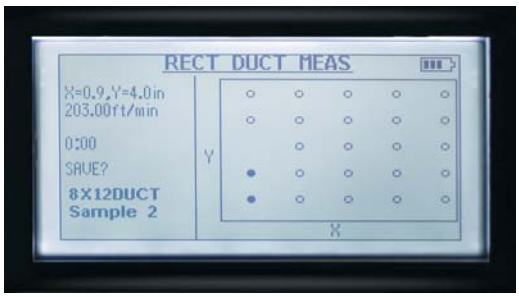
Detachable Micromanometer

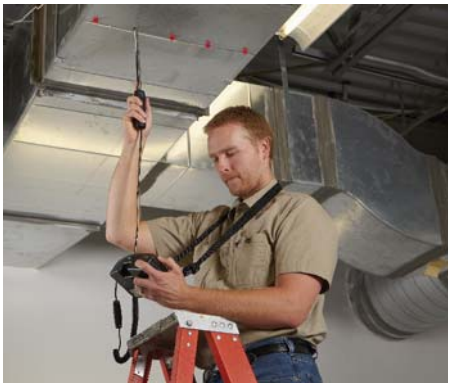
Model 8715

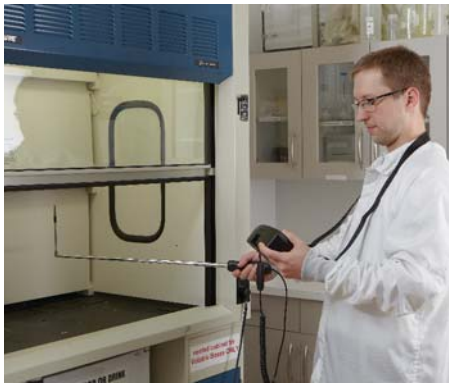
The 8380 AccuBalance Air Capture Hood includes a detachable 8715 micromanometer—one of the most advanced, versatile, and easy to use micromanometers on the market today. The 8715 features an auto-zeroing pressure sensor that increases measurement resolution and accuracy along with an intuitive menu structure 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
- 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







Models 8715 and 8380

Specifications

Models 8715 and 8380

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	1 ft/min (0.01 m/s)

Pressure

Differential pressure	±15 in. H_2O (±3735 Pa); 150 in. H_2O (37.5 kPa), maximum safe operating pressure
Absolute pressure	15 to 40 in. Hg (356 to 1016 mm Hg)
Accuracy	±2% of reading ±0.0001 in. H_2O (±0.025 Pa) static and differential; ±2% of reading absolute
Units	in. H_2O, in. Hg, Pa, hPa, kPa, mm Hg, cm Hg, mm H_2O, cm H_2O,
Resolution	0.00001 in. H_2O (0.001 Pa) static and differential; 0.01 in. Hg (1 mm Hg) absolute

Volume

Range	25 to 2,500 ft^3/min (42 to 4250 m^3/h) capture hood
Accuracy	±3% of reading ±7 ft^3/min (±12 m^3/h) at flows >50 ft^3/min (>85 m^3/h)
Units	ft^3/min, m^3/h, m^3/min, l/s
Resolution	1 ft^3/min (1 m^3/h)

RH

Range	5 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/RH probe	14 to 140°F (-10 to 60°C)
Accuracy	±0.5°F (±0.3°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

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
¼ 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

8715	17 oz (0.5 kg)
8380	7.4 lb (3.4 kg)

Power Requirements
Four AA-size cells or AC adapter

Ordering Information

8715	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.
8380	2 ft x 2 ft (610 mm x 610 mm) air capture hood/frame/base, Swirl X Flow Conditioner, 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.