



® Knowledge Beyond Measure.

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.

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
- Compatible LogDat™ Mobile Remote Reader and Data
- Logger Software option simplifies documenting of results and emailing of reports
- Capture hood stand eliminates the need for ladders reaching diffusers up to 4,5m (15 ft.)

Applications

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





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Detachable Micromanometer

Model 8715



Model 8715 (Micromanometer shown with standard and optional accessories)

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
- Optional LogDat™ Mobile Android™ App connects to the instrument via bluetooth to remotely take readings and datalog measurements for review or export
- 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



Plug and play thermoanemometer probes enables use in multiple applications.

Specifications

AccuBalance® Air Capture Hood Model 8380 Detachable Micromanometer Model 8715

Velocity Range

| | |
|-----------------|---|
| Pitot probes | 0.125 to 78 m/s (25 to 15,500 ft/min) |
| Air flow probe | 0.125 to 12.5 m/s (25 to 2,500 ft/min) |
| Velocity matrix | 0.125 to 12.5 m/s (25 to 2,500 ft/min) |
| Accuracy | ±3% of reading ±0.04 m/s (±7 ft/min) at velocities >0.25 m/s (50 ft/min) |
| Units | m/s, ft/min |
| Resolution | 0.01 m/s (1 ft/min) |

Pressure

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

Volume

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

Temperature

| | |
|----------------------|---------------------------|
| Sensor in base | 4.4 to 60°C (40 to 140°F) |
| Temperature/RH probe | -10 to 60°C (14 to 140°F) |
| Accuracy | ±0.3°C (±0.5°F) |
| Units | °C, °F |
| Resolution | 0.1°C (0.1°F) |

RH

| | |
|------------|------------------------------------|
| Range | 5 to 95% RH (temperature/RH probe) |
| Accuracy | ±3% RH |
| Resolution | 0.1% RH 0.1% RH |

Instrument Temperature Range

| | |
|-----------|---------------------------|
| Operating | 4.4 to 60°C (40 to 140°F) |
| Storage | -20 to 71°C (-4 to 160°F) |

Statistics

min, max, average and sum

Data Storage

26,500 samples, time and date stamped

Logging Interval

User selectable

Response Time

2 to 8 seconds, differential pressure sensor

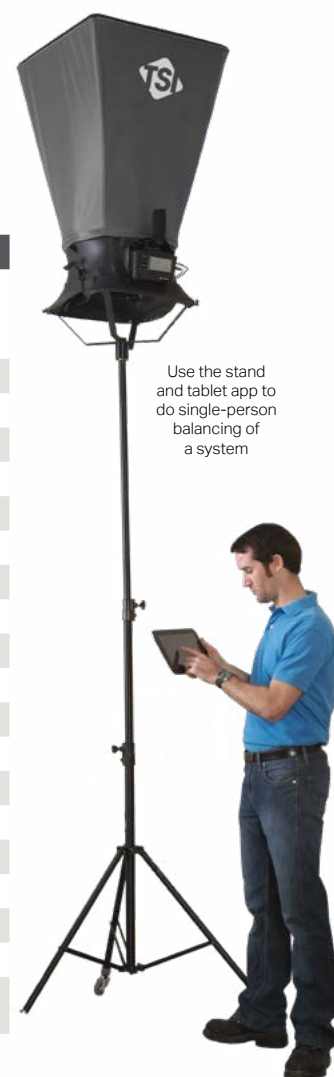
Power Requirements

Four AA-size cells or AC adapter

Physical Characteristics

| | |
|-----------------------|---|
| Dimensions | 18.8 cm x 11.4 cm x 5.8 cm (7.4 in. x 4.5 in. x 2.3 in.) |
| Weight with Batteries | 8715 0.5 kg (17 oz.) 8380 3.4 kg (7.4 lb.) |
| Pressure Connection | 6.35 mm (1/4 in.) OD straight ports with barbed ends for use with 4.76 mm (3/16 in.) ID flexible tubing |

| Model | 8380-B | 8380 | 8380-STA | 8715 |
|--|---|--|---|--------------------|
| Description | Basic 610 mm x 610 mm (2 ft x 2ft) AccuBalance Capture Hood Kit | Standard 610 mm x 610 mm (2 ft x 2ft) AccuBalance Capture Hood Kit | Bundled 610 mm x 610 mm (2 ft x 2ft) AccuBalance Capture Hood Kit | Micromanometer Kit |
| Capture hood base, poles, frame and fabric | ■ | ■ | ■ | |
| Micromanometer | ■ | ■ | ■ | ■ |
| (4) support poles | ■ | | | |
| (6) support poles | | ■ | ■ | |
| (4) AA alkaline batteries | ■ | | | |
| (4) AA rechargeable NiMH batteries | | ■ | ■ | ■ |
| (2) battery holders | ■ | ■ | ■ | ■ |
| Multi-country AC power adaptor | | ■ | ■ | ■ |
| 46 cm (18 in.) pitot probe | | ■ | ■ | ■ |
| 5.0 m (16 ft.) tubing | | ■ | ■ | ■ |
| (2) static pressure probes | | ■ | ■ | ■ |
| Neck strap | | ■ | ■ | ■ |
| Capture hood stand | | | ■ | |
| Android Tablet loaded with LogDat Mobile | | | ■ | |
| Wheeled carrying case | ■ | ■ | ■ | |
| Handheld carrying case | | | | ■ |
| LogDat CH downloading software with cable | ■ | ■ | ■ | ■ |
| User manual | ■ | ■ | ■ | ■ |
| Calibration certificate, pressure: 5-points (differential), 3-points (barometric), 3-points (temperature) | ■ | ■ | ■ | ■ |
| Calibration certificate, flow: 7-points (supply), 7-points (return) | ■ | ■ | ■ | |



Specifications

AccuBalance® Air Capture Hood Model 8380 Detachable Micromanometer Model 8715

Recommended Optional Accessories

Hood Kits

| | |
|-------------------|--|
| 801180 (standard) | 610 mm x 610 mm (2 ft x 2 ft) |
| 801200 | 305 mm x 1220 mm (1 ft x 4 ft) |
| 801216 | 610 mm x 915 mm (2 ft x 3 ft) |
| 801201 | 610 mm x 1220 mm (2 ft x 4 ft) |
| 801202 | 305 mm x 1525 mm (1 ft x 5 ft) |
| 801203 | 915 mm x 915 mm (3 ft x 3 ft) |
| 801206 | 305 mm x 1,220 mm (1 ft x 4 ft) and 610 mm x 1,220 mm (2 ft x 4 ft) |
| 801207 | 305 mm x 1,525 mm (1 ft x 5 ft) and 915 mm x 915 mm (3 ft x 3 ft) |
| 801209 | 406 mm x 406 mm (16 in. x 16 in.) |
| 801210 | 133 mm x 1220 mm (5.25 in. x 4 ft) |
| 801211 | 710 mm x 710 mm (28 in. x 28 in.) |
| 801212 | 710 mm x 1270 mm (28 in. x 50 in.) |
| 801215 | 305 mm x 915 mm (1 ft x 3 ft) |
| 801204 (BSC*) | 205 mm x 535 mm (8 in. x 21 in.) |
| 801205 (BSC*) | 255 mm x 535 mm (10 in. x 21 in.) |

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

Duct Plugs

| | |
|-----------|---|
| 634650002 | 9.5 mm (3/8 in.) diameter - 1000 pieces |
| 634650003 | 9.5 mm (3/8 in.) diameter - 5000 pieces |

Printer

| | |
|------|----------------------------|
| 8934 | Wireless Bluetooth printer |
|------|----------------------------|

LogDat™ Mobile Software

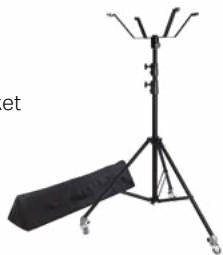
Remote reader and data logger Android™ Software App available via Google Play™



Capture Hood Stand

CH-Stand*

Extends up to 4.5 m (15 ft) with 8380 attached to take readings from ceiling diffuser without the use of a ladder. Capture hood is secured onto quad bracket and two extension pole sections can be raised to desired height and locked in place. Hood stand uses wheels for ease of movement and portability.



Optional Probes

Airflow Probe 800187

Straight air flow probe, 46 cm (18 in.). Used to perform a duct traverse and to measure face velocity measurements. Ideal for small diameter ductwork.



Temperature and Humidity Probe 800220

Telescopic temperature and humidity probe, extends 230-990 mm (9-39 in.). Used for measuring inside of duct work. Can be inserted into a standard 8 mm (5/16 in.) diameter hole typically use for pitot traverses with the ability to calculate wet bulb and dewpoint temperatures.



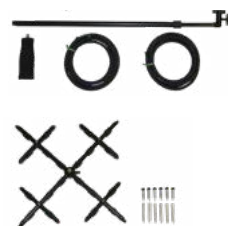
Thermoanemometer Air Velocity Probes Models 960, 962, 964, and 966

Available in straight or articulating construction, and with or without a relative humidity sensor. Models with a relative humidity sensor can also calculate wet bulb and dewpoint temperature.



Velocity Matrix 801090

16 point Telescopic Velocity Matrix. Used for measuring face velocities of HEPA filters, chemical fume hood, laminar flow benches, filter banks, kitchen exhausts and other applications where a large surface area needs to be measured. Grid covers 0.09 m² (1 ft²) and averages the air velocity while minimizing the effects of turbulence to produce a stable reading.



Pitot Probes

| | |
|------------|---|
| 634634000 | 8 mm–30 cm (5/16–12 in.) diameter |
| 634634001* | 8 mm–46 cm (5/16–18 in.) diameter |
| 634634002 | 8 mm–61 cm (5/16–24 in.) diameter |
| 634634003 | 8 mm–91 cm (5/16–36 in.) diameter |
| 634634005 | 8 mm – 152 cm (5/16–60 in.) diameter |

*included in specific bundles. Please refer to model matrix on page 3.



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Knowledge Beyond Measure.

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Specifications subject to change without notice.

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