

# Datasheet





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Model PH731 (Accessories shown on following page)

#### ProHood Capture Hood Model PH731

The PH731 ProHood 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 PH731 ProHood 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

#### **Applications**

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





Model PH730 (Micromanometer shown with standard and optional accessories)

## Detachable Micromanometer Model PH730

The PH731 ProHood Capture Hood includes a detachable PH730 micromanometer—one of the most advanced, versatile, and easy to use micromanometers on the market today. The PH730 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









### Air Volume Instruments

#### Models PH730 and PH731

## Specifications Models PH730 and PH731

**Velocity Range** 

Pitot probes 25 to 15,500 ft/min (0.125 to 78 m/s) 25 to 5,000 ft/min (0.125 to 25 m/s) Air flow probe 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<sub>2</sub>O (±3735 Pa); 150 in. H<sub>2</sub>0 (37.5 kPa),

maximum safe operating pressure Absolute pressure 15 to 40 in. Hg (356 to 1016 mm Hg) Accuracy  $\pm 2\%$  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<sub>2</sub>O, in. Hg, Pa, hPa, kPa, mm Hg,

cm Hg, mm  $H_2O$ , cm  $H_2O$ ,

0.00001 in. H<sub>2</sub>O (0.001 Pa) static and Resolution

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

Volume

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

±3% of reading ±7 ft3/min (±12 m3/h) at Accuracy

flows >50 ft3/min (>85 m3/h) ft3/min, m3/h, m3/min, l/s

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

RH

5 to 95% RH temperature/RH probe Range

±3% RH Accuracy 0.1% RH Resolution

**Temperature** 

Sensor in base 40 to 140°F (4.4 to 60°C) Temperature/RH probe 14 to 140°F (-10 to 60°C)

±0.5°F (±0.3°C) Accuracy °F, °C Units 0.1°F (0.1°C) Resolution

**Instrument Temperature Range** 

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

**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** 

1/4 in. (6.35 mm) OD straight ports with barbed ends for use with <sup>3</sup>/<sub>16</sub> in. (4.76 mm) ID flexible tubing

Weight with Batteries

PH730 17 oz (0.5 kg) PH731 7.4 lb (3.4 kg)

**Power Requirements** 

Four AA-size cells or AC adapter

**Ordering Information** 

PH730 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.

PH731 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.

## **Air Volume Instruments**

#### Models PH730 and PHT731

#### Hood Sizes Available (PH731)

Standard Hood Kits

**801208** 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) 3 ft x 3 ft (915 mm x 915 mm) 801203 16 in. x 16 in. (406 mm x 406 mm) 801209 5.25 in. x 4 ft (133 mm x 1220 mm) 801210 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 (straight pitot), 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, Temperature, and Humidity, Straight Probe

**966** Air Velocity, 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)

 634650002
 Duct plug, 3/8 in. (9.5 mm) diameter - 1000 pieces

 634650003
 Duct plug, 3/8 in. (9.5 mm) diameter - 5000 pieces

8934 Wireless Bluetooth Printer

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Optional Accessories	Description / Part Number
	Airflow Probe 800187  18 in. (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.
	Velocity Matrix 801090 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.
	Thermoanemometer Air Velocity Probe Models 960, 962, 964, 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.
	Temperature and Humidity Probe 800220 Telescopic probe extends from 9 to 39 in. (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.

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## **LOCATIONS**

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#### **REDCAR**

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