



Volume and Pressure Products



Model PH721
(Shown with optional accessories)

ProHood Model PH721

The PH721 Capture Hood is a multipurpose electronic air balancing instrument for reading air volume flow at diffusers, grilles, and linear slots. It is ideally suited for commissioning agents, facilities managers, health and safety specialists, test engineers, and ventilation installers. This light weight, ergonomically designed kit saves time and money while helping to create a healthy and energy efficient environment.

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
- Pre-assembled hood frames save time on site
- Multiple hood sizes available
- Bio-Safety hood kit available

Manometer Model PH720

The PH720 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

Accurate. Reliable. Every Time.





Applications

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

The standard PH720 kit includes manometer with carrying case, 4-AA size rechargeable NiMH batteries, AC adapter, 457 mm (18 in.) Pitot probe, 2 static pressure probes, 4.9 m (16 ft.) Norprene™ tubing, LogDat1 downloading software, Certificate of Calibration, and user manual.

The standard PH721 kit includes 610 x 610 mm (2 ft. x 2 ft.) capture hood, base, manometer, 4-AA size rechargeable NiMH batteries, AC adapter, 457 mm (18 in.) Pitot probe, 2 static pressure probes, 4.9 m (16 ft.) Norprene™ tubing, LogDat1 downloading software, Certificate of Calibration, and user manual, in wheeled luggage style carrying case.

Optional Accessories for PH720 AND PH721

- 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

Specifications

ProHood Models PH720 and PH721

Velocity Range

Pitot probes	0.125 to 40 m/s (25 to 8,000 ft/min.)
Air flow probe	0.125 to 25 m/s (25 to 5,000 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 ±0.25 Pa (±0.001 in. H ₂ O) static and differential; ±2% of reading absolute
Units	Pa, hPa, kPa, mm Hg, cm Hg, in. Hg, mm H ₂ O, cm H ₂ O, in. H ₂ O
Resolution	0.001 Pa (0.00001 in. H ₂ O) 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
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, m ³ /min, l/s, ft ³ /min.
Resolution	1 m ³ /h (1 ft ³ /min)

RH

Range	0 to 95% RH temperature/RH probe
Accuracy	±3% RH
Resolution	0.1% RH

Temperature

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

Volume and Pressure Products

ProHoods

Models PH720 and PH721

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 up to 1000 readings

Data Storage

1000 readings, time and date stamped

Logging Interval

User selectable

Response Time

2 to 8 seconds

Display

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

Dimensions (manometer only)

18.8 cm x 11.4 cm x 5.8 cm (7.4 in. x 4.5 in. x 2.3 in.)

Pressure Connection

6.35 mm (1/4 in.) OD straight ports for use with 4.76 mm (3/16 in.) ID flexible tubing

Weight with Batteries

PH720 0.5 kg (17 oz)
PH721 3.4 kg (7.4 lb)

Power Requirements

Four AA-size cells or AC adapter

Hood Sizes Available (PH721)

Standard 610 mm x 610 mm (2 ft x 2 ft)
Optional 610 mm x 1220 mm (2 ft x 4 ft)
305 mm x 1220 mm (1 ft x 4 ft)
305 mm x 1525 mm (1 ft x 5 ft)
915 mm x 915 mm (3 ft x 3 ft)

	PH720	PH721
Air capture hood, frame and base		•
Measures air volume/flow rate	•	•
Static/Differential Pressure (air)	•	•
Air Velocity, Temperature, Relative Humidity Probes (optional)	•	•
Pressure Sensor	•	•
Automatic Density Correction	•	•
Backpressure Compensation		•
Data Logging (download/recall)	•	•
Field Calibration Available	•	•
Output to Printer	•	•
Statistics (minimum, maximum, average)	•	•
Free Certificate of Calibration	•	•

Specifications subject to change without notice.

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