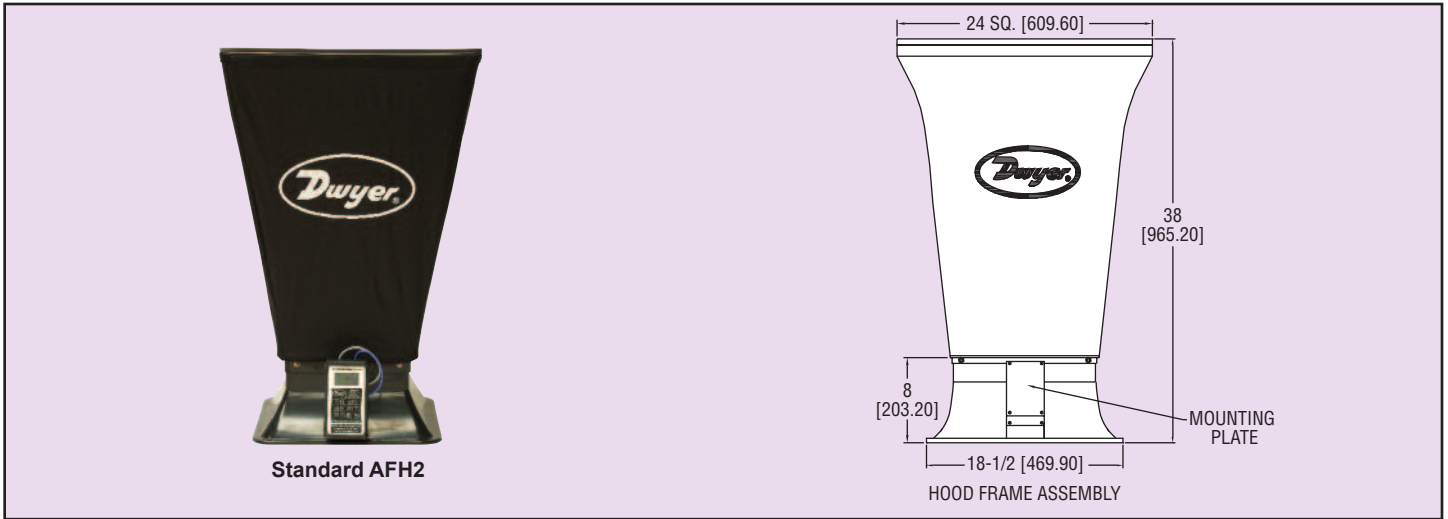




Model  
AFH2

# Air Flow Hood

Measures Volumetric Flow Rate with Highly Accurate Digital Manometer



Standard AFH2

The Model AFH2 Air Flow Hood is designed to measure volumetric air flow from diffusers, grilles and registers. The AFH2 Air Flow Hood maintains a running average of measurements in the desired units, and provides the ability to manually record measurements with the manometer over a given time period. The highly accurate digital manometer has an auto-zero feature and will auto-zero at user-defined intervals. The digital manometer easily mounts to the flow hood with its magnet back-plate. Break down is very quick and easy as tools are not required. In addition to these features, the unit will alert you when its battery is running low in order to avoid recording inaccurate measurements. This lightweight flow hood is durable and easily stores into an included travel case. New low flow adapter kit allows easy conversion of any AFH2 into a low flow hood. All kits fit easily into the AFH2's travel case. The AFH2 comes with a calibration certificate for both hood and manometer.

Model AFH2, Air Flow Hood with 2'x2' hood

## ACCESSORIES

A-174, Low Flow Hood Adapter Kit

A-175, Hood Adapter Kit.

Required for use with below alternative hoods

A-176, 1'x4' canvas hood

A-177, 2'x4' canvas hood

A-178, 1'x5' canvas hood

A-179, 3'x3' canvas hood

A-190, Software and cable



AFH2 with A-174 Low Flow Adapter



AFH2 Travel Case

## SPECIFICATIONS

**Service:** Air.

**Volume Flow Rate Units:** CFM, l/s, m<sup>3</sup>/hr.

**Volume Flow Ranges:**

Supply: CFM: 41 to 1176; l/s: 19 to 555; m<sup>3</sup>/hr: 69 to 2000;

Exhaust: CFM: 45 to 1176; l/s: 21 to 555; m<sup>3</sup>/hr: 76 to 2000.

**Volume Flow Ranges with Low Flow Kit:**

Supply: CFM: 25 to 1176; l/s: 12 to 555; m<sup>3</sup>/hr: 43 to 2000;

Exhaust: CFM: 29 to 1176; l/s: 14 to 555; m<sup>3</sup>/hr: 49 to 2000.

**Accuracy @ 20°C (68°F):**

Supply: ±3% of reading ±9 CFM (±4 l/s, 14 m<sup>3</sup>/hr);

Exhaust: ±3% of reading ±9 CFM (±4 l/s, 14 m<sup>3</sup>/hr).

**Span Stability v. Temperature:** Better than 0.1% of range in use per 2°F (1°C).

**Zero System Accuracy:** ±1 count (±0.05 Pascal typical; ±0.0002 in w.c.).

**Temperature Limits:**

Operating: 32 to 122°F (0 to 50°C);

Storage: 23 to 122°F (-5 to 50°C).

**Thermal Effect:** ±0.1% of range in use per 2°F (1°C).

**Zero Drift:** Negligible due to auto zero system. When auto zero set at 30 second intervals (2 minute warm up).

**Orientation Effect:** Any 45 degree change 0.0004 in w.c. (0.1 pascal) typical.

**System Air Leak:** 0.366 in<sup>3</sup>/hr (0.1 ml/min) @ 20 in w.c. (5 kPa) typical.

**Maximum Differential Pressure:** 60 in w.c. (15 kPa).

**Auto Ranging Display:** 0.375" high digits.

**Resolution:** 1 CFM, 1 l/s, 1 m<sup>3</sup>/hr.

**Output:** RS-232 serial interface (baud rate 9600).

**Memory Capability:** 2500 readings in any engineering unit.

**Power Requirements:** 8.4 V NiMH battery, installed functional, user replaceable (optional 9 V alkaline battery may be used in place of rechargeable).

**Dimensions:** 30" x 24" x 24" (965 x 610 x 610 mm). Hood only: 2' x 2' (600 mm x 600 mm).

**Weight:** 8.8 lb (4 kg).

**Agency Approval:** CE.

TEST EQUIPMENT

Air Flow Hood