

Powered Flow Hood comparison: FlowFinder® & Flow Blaster®

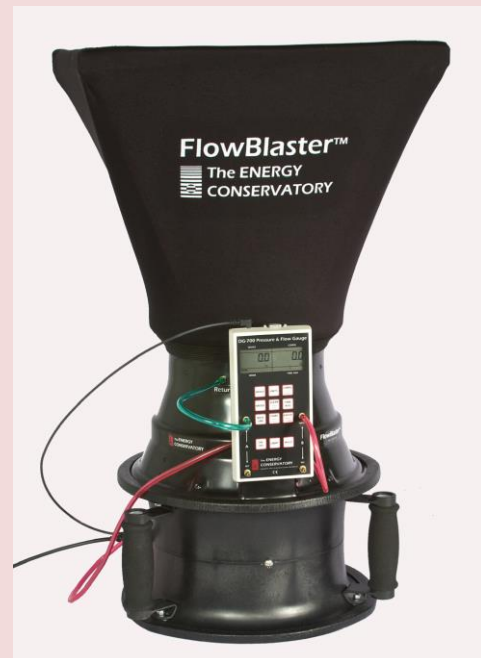
This guide consists of publicly available data compiled for convenient comparisons.

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Retrotec's FlowFinder®



The Energy Conservatory's Flow Blaster®



Powered Flow Hood performance and applications

Measuring supply flows is challenging because of the uneven velocities coming from different parts of the registers. Passive flow hoods and anemometers can be extremely inaccurate because they typically mistake turbulence for additional flow and tend to read high.

Return flows are much easier to read but if return pressures are low, the presence of a passive flow hood can increase the pressure in the return and force flow to divert to other registers where it is unmeasured causing low readings.

Powered flow hoods solve both of these problems by reducing the pressure next to the register to zero by a powered fan whose speed is adjusted automatically.

The flow measurement

Flow Finder®

Duct Blaster®

Flow for Zero Balance:

6 to 323CFM
500 CFM with compensation.
No Range Rings to change.



Accuracy:

+/- 3% of reading or +/- 2 CFM whichever is greater.
Repeatability: 1%
Density correction built in.

Set to Zero from push button.



Flow for Zero Balance:

Ring 3: 10 to 120 CFM
Ring 2: 80 to 300 CFM



Accuracy:

+/- 5% of reading or +/- 2 CFM whichever is greater.
Density correction from a table.

Set to Zero from gauge.



Dimensions and weight with batteries:

4.9 lb with 8.5 x 8.5 inch hood, 10.5 inches high
5.8 lb with 9.5 x 9.5 inch hood, 15.5 inches high
6.5 lb with 16 x 16 inch hood, 16 inches high

Dimensions and weight without batteries:

12 lb with 16 x 16 hood, 29.5 inches high *
+ Battery pack worn around waist.
*Weight does not include Lithium Ion Battery Pack but does include 6 AA batteries in gauge.

Battery Life:

8 to 12 hours of testing on one recharge

Battery Life:

45 minutes of testing on one recharge.

Time to take a reading:

10 seconds

Time to take a reading:

Approximately 20 seconds

Test direction: Works in both directions without changes to set up.

Test direction: Works in both directions when hood is removed and replaced on opposite end.

Results

Color LCD with Touchscreen built in

Black and White LCD with keypad

Accuracy for 0 balance: 0.01 Pa.

Accuracy for 0 balance: 0.15 Pa.

Results:

Flow
Temperature
Humidity

1000s of result saved on the SD card with location, date and timestamp.



Results:

Flow

Results not saved.



Price

\$3950 with 8.5" x 8.5 plus 9.5" x 9.5" and 16 x 16" flow hood.

\$3050 with 16 x 16" flow hood.