

Retrotec's FlowBox

rev 2022-09-28

Exhaust Fan Flow Meter & Pressure Pan



FlowBox Flow Ranges

Simply select the appropriate range below and enter the Effective Area into the DM32 using the Hole Flow Mode Device

Standard Ranges	Effective Area (sq in)	Effective Area (sq cm)	Min Flow (CFM)	Max Flow (CFM)
4 Openings	62	400	64	205
3 Openings	50	322	52	149
2 Openings	34	219	35	105
1 Opening	18	116	18	54
74 Plug	9	58	9	28



FlowBox



Blank Included x 4



Range 74 Included



Range 47 Optional



Range 29 Optional



Tubing Kit Included



Gauge Sold Separately

1 Prepare the Flowbox

Determine the anticipated flow capacity (CFM) of the exhaust fan to test your area, then select the appropriate amount of range plugs using the FlowBox Flow Ranges Table found on the backside of this QuickGuide.



FlowBox Flow Ranges	Range	Effective Area (Sq. In.)	Low (CFM)	High (CFM)
Important: Adjust the hole configuration until Channel A on DM32X reads between 1 & 10 Pa.	Open 4	62	64	205
Please verify to ensure a tight seal	Open 3	50	52	149
	Open 2	34	35	105
	Open 1	18	18	54
	Range 74	9	9	28

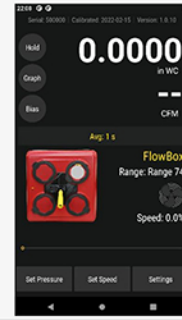
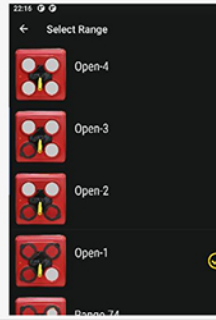
2 Connect DM32X Gauge & FlowBox

- Power on the DM32X.
- Plug long yellow tube into FlowBox port. Install T Connector into the other end.
- Plug the short blue & yellow tubing into the color coded gauge ports. Connect to the main yellow tube using the T Connector.
- On Channel A, ensure pressure reads between 1 & 10 Pa. If not, adjust range plugs accordingly.



3 Prepare the Gauge

- Ensure the FlowBox is selected on the Home screen. If not, tap the fan picture, then [Change Device] & scroll down to select the FlowBox image.
- Select the DM32X Range configuration image to match the FlowBox rage configuration.



4 Test

- Press firmly** to the surface around the ventilation fan. Turn fan on and measure using pressure readings on the gauge. Capture pressure readings within the 5-10 second mark of testing.

FlowBox Flow Ranges

Select the appropriate range. Enter Effective Area into the DM32 using Hole Flow Mode.

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How to Use FlowBox as Pressure Pan



- Plug the FlowBox using all four blank range plugs
- Connect to the FlowBox to your DM32 gauge using the yellow tubing
- Set Gauge to read pressure in Pa
- Depressurize house with a blower door to -50Pa. The closer a measurement is to 50 Pa, the more connected it is to the outside. The Flowbox can be used to locate leakage in air barriers and ductwork.