

Retrotec's FlowBox

rev 2021-10-18

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 DM32 reads between -1 & 10 Pa.	Open 4	62	64	205
Place firmly 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 DM32 Gauge & FlowBox

- ☐ Press  on the gauge to turn on.
- ☐ 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.




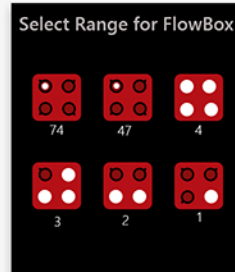
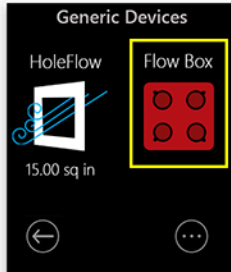
3

Prepare the gauge

Ensure Flow Box is selected on the **Home** screen.

If not, tap the fan picture, then 

Tap  (multiple times if necessary) & navigate to Flow Box.



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.

Note: If not using a DM32, refer to the "Retrotec FlowBox Lookup Table" at retrotec.com/flow-box.html

Note: If using a DM32 that has not been updated to show the FlowBox Icon, refer to Chart below to select the proper Effective Area. In this scenario, you will use the Hole Flow Function on the DM32.

FlowBox Flow Ranges

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

Standard Ranges	Effective Area (sq in)	Effective Area (sq cm)	Min Flow (CFM)	Max Flow (CFM)
4 Openings	62	400	64	205
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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.