Retrotec's Model 500x Ductester QuickGuide



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Prepare the DM32X

- Power on the DM32X.
- Connect yellow, green, and blue tubes to the gauge.
- □ Tap [Change Device] and select the 440 or 450 DucTester.
- □ Tap [Change Range] and select Range 47.
- Tap [Channel B] to change the type of result or units. Select based on "Get The Results You Need" on the QuickGuide instructions below.
- Tap [Settings] then [Time Averaging] and select 5 Seconds.
- □ Tap [Settings] then [Default @ Pressure] and enter Test Pressure.
- Return to main screen.
- □ If your flow units include area, tap [Area], then use number pad to enter and tap [Set].



Prepare the Ducts

- Ensure sealing is complete.
- Blank off ductwork.

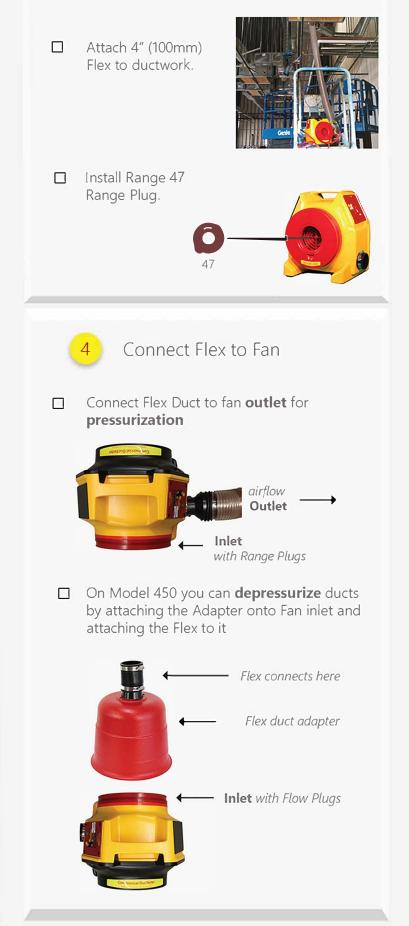
See Manual for DucTester Operation Model 500x for additional information.





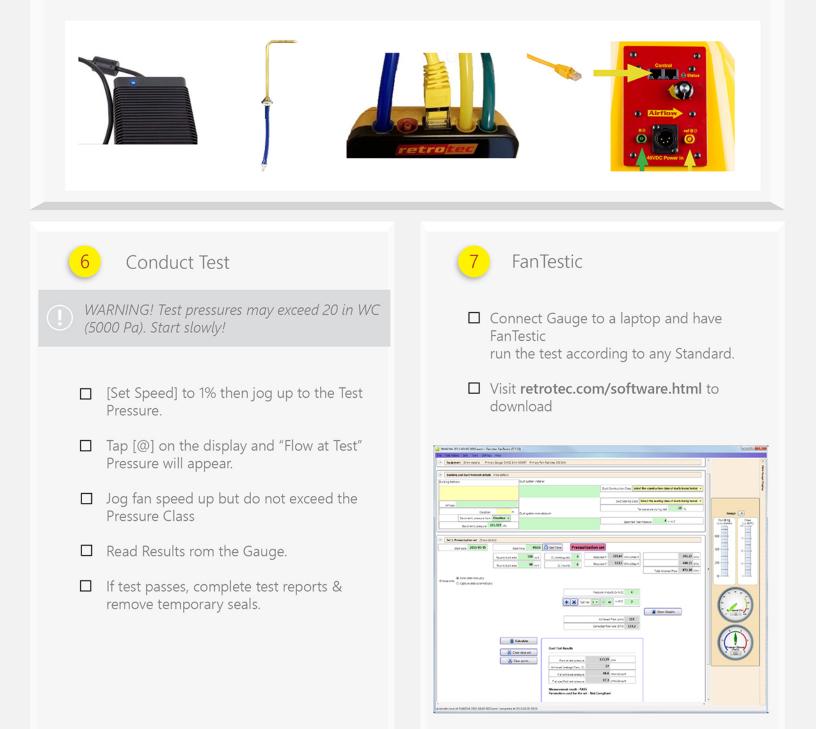


Connect Flex to Ducts



5 Connect Gauge & Fan

- Plug in the power adapter. Blue light indicates that the power is connected.
- Connect yellow and green tubes to matching color ports on the ran.
- Plug in Speed Control Cable between DucTester & Gauge.
- Connect blue tube the duct using a static probe or connection on flange.



Flow in [Channel B] reads "---" at test pressure?

If the test pressure has been reached, but "--" appears, the fan is running too slowly to accurately measure flow.

- Switch to a lower Range Plug



the gauge to match

- [Change Range] on

- Re-adjust fan speed

Cannot achieve test pressure at full speed?

If fan reaches 100% speed before reaching test pressure:

Change to a higher Range Plug, Change [Range] on the gauge to match and try again.

Check seals on all registers. Look for disconnected ducts or ducts open to outdoors.

Field check gauge weekly

Check for gauge accuracy, blocked, leaking, or pinched tubes weekly, and anytime results are in question.

Check the gauge with the tubes in the Umbilical.

Set [Time Average] to 5 seconds in [Settings].

Tap [Channel B] and select "Pressure: Pa"

Connect the red tube between the red and yellow ports.

If readings on Channel A and Channel B are within 2% and don't drop noticeably in 5 seconds, the gauge is functioning correctly.

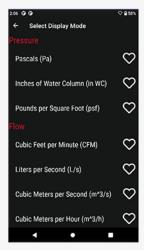
Remove red tubes and repeat with the yellow tube between the blue and green ports.

Tap [Channel B] on the screen to select a different result, or tap the [Results to be Displayed] button in the [Settings] menu.

Flow at the induced pressure is the simplest result.

Flow in CFM per square foot (or m3/(h·m2) may be required. (Enter an Area).

When a Result is chosen that requires a Area or Volume, Area or Volume will be shown on the Home Screen. Tap to



Change. The area can also be changed through the [Settings] menu.





Additional troubleshooting

Visit **www.retrotec.com/support** for more support options such as FAQ, Webinars, Manuals, Tech Support, and Repairs.

Get the results you need