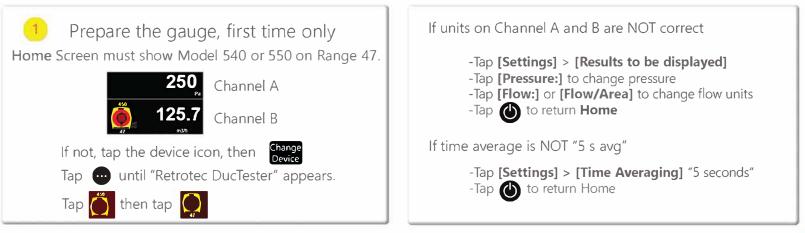
rev 2022-01-17

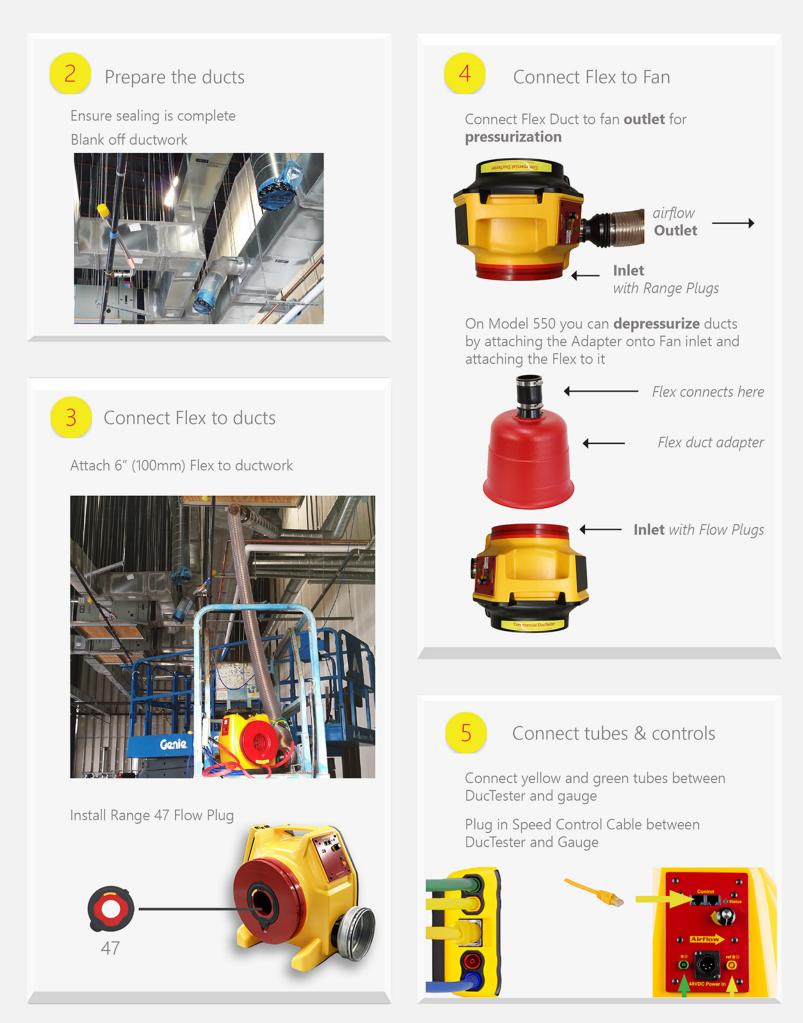
Retrotec's Model 540x & 550x QuickGuide

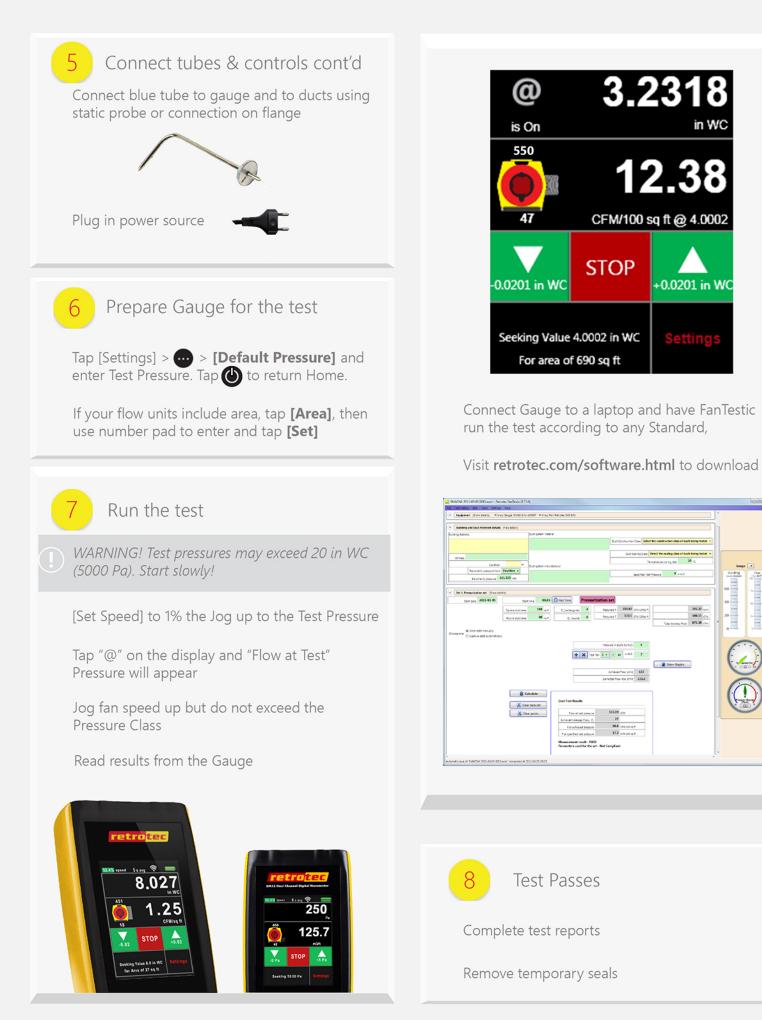




Commercial DucTester Setup







Desired results not achieved?

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

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

- Switch to a lower Range Plug

If the test pressure has been reached, but "+ +" appears, the fan is running too quickly to accurately measure flow (flow pressure above maximum). Make sure to:

- Change [Range] on DM32 to match

- 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 and try again.
- Change [Range] on the gauge to match.
- Check seals on all registers. Look for disconnected ducts or ducts open to outdoors

Field check gauge weekly

Check gauge operation and check for blocked, leaking or pinched tubes weekly, and anytime results are in question. This will eliminate a common source of error



To perform the gauge check, you will need the gauge and Umbilical

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

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

Connect the yellow tube between the red and yellow ports.

If readings on Channel A and Channel B are within 2% and don't drop rapidly, the tube is not blocked or leaking and the gauge is correct.

Repeat between different ports with each of the tubes you use for testing.

Get the results you need

Tap the **[Channel B]** key to select a different Result, or tap the **[Result to be displayed]** key on the **[Settings]** menu.

Flow: CFM (m3/h) - Flow at the induced pressure is the simplest result

Flow/Area: CFM/100 sq ft (m3/(h*m2) or m3/(s*m2) or liters/(s*m2)) - Flow in CFM per 100 square feet (or m3/(h·m2) may be required. Requires an area to be entered.

When a Result is chosen that requires an area, **[Area]** will be shown on the **Home** screen. Tap it to enter the area.

The area can also be changed from the **[Settings]** menu.



Use smaller Range number for tighter ducts, and larger number for leakier ducts.



Tap on the gauge and select the range to match your fan, whenever a Range Plug is changed.



Additional troubleshooting

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