

Retrotec Model R31 Economy Duc-Tester

Automated Duct Testing without a computer.
...for measuring duct leakage *in residential & light commercial buildings*



Retrotec Model QR31 consists of a Duc-Tester Module, a DM-2 Digital gauge and a 12 foot flex-duct with flanges for mounting on the return register. Case for DM-2A and grill mask dispenser not included.



Fan speed is adjusted manually and results read directly from the DM-2.



The DU210 fan unit has three flow ranges.



Case for Duc-Tester

New Home or Utility Standards

The Retrotec Duc-Tester is designed specifically to measure residential duct leakage. It can then be used to locate duct leaks and to measure the results of duct sealing. Use the Model R31 Duc-Tester to verify duct leakage for compliance with codes such as Title 24 in California. The typical 5 Ton air-conditioning system must have 120 cfm of leakage or less to pass California standards. The R31 will easily test any residential system because it will create 600 cfm which is 5 times more than that.

Retrotec Model R31 Specifications

Fan Flow (accuracy +/- 2.5 % with Retrotec DM-2 or Auto Correct software)

Maximum Flow in Free Air: 750 CFM 353 l/s 1273 m³/h

Maximum Flow at 25 Pascal with flex attached to a register: 530 CFM 250 l/s 901 m³/h

Minimum Flow at 25 Pascal test pressure with flex attached: 5 CFM 2.36 l/s 8.49 m³/h

Dimensions of Fan unit 14 x 14 x 12 in 35 x 35 x 30 cm

Fan Motor: EBM backward curved impeller. 120V 2a or 240V 1a

Calibration meets: Canadian CGSB-149.1-2002 & SuperE, USA ASTM E 779 - 03, European EN 13829 & CEN, UK TM-23 Energy Standards. NFPA 2001- 01, ISO 14520 and fire standards.

Specifications subject to change without notice. Infiltrometer is a registered trademark of Retrotec. Two (2) years parts and labor on fan unit

Operation

The Duc-Tester will pressurize or depressurize a duct system (with the air handler off) from the main return grille (or blower access opening). The rest of the register openings are taped shut. Duct pressure is measured by static probes in the supply ducts. Airflow is determined by reading flow directly from the DM-2. No computer is required. Setup, taping the registers and getting results takes less than 20 minutes in most homes. The Duc-Tester can also be used in conjunction with a blower door to neutralize duct leaks to indoors to that only duct leakage to outdoors is measured.

Options:



Add an Aluminum frame and cloth to test houses.



Deluxe Case



Air Current Testers to find leaks



Grill Mask dispenser



Grill Mask to seal off registers. 12" x 160' roll

Other products from Retrotec:



rapid set-up hard panel



3 fan hard panel



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