



FEC[®] HVAC Air Filter Test Rig

Particulate air filters for general ventilation — Determination of the filtration performance

ISO 16890, IS 17570, ASHRAE 52.2

BS/EN 1822, BS/EN 779

Testing Features:

- Initial Pressure Restriction
- Dust Capacity Test
- Fractional Efficiency Test
- Initial & Final Pressure Drop
- Initial & Final Efficiency Test
- Flow V/S Differential Pressure
- Fractional Pressure Restriction Test, MERV Rating



HVAC Air Filter Test Rig



Test Perform



Flow/Differential pressure Test
Dust Holding Capacity (DHC)
Efficiency and final Restriction Test
Fractional Efficiency as per ISO/TS 19713-1&2

This International Standard establishes and specifies uniform test procedures, conditions, equipment, and a Performance report to permit the direct laboratory performance comparison of air cleaners. The basic performance characteristics of greatest interest are air flow restriction or differential pressure, dust Collection efficiency, dust capacity, This test code therefore deals with the Measurement of these parameters.

This International Standard is applicable to air cleaners used on internal combustion engines and compressors Generally used in automotive and industrial applications



Equipment Operating Computerised Panel



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HVAC Air Filter Quality Control Equipment



Equipment Operating Screen

Technical Specification:

Flow rate : 2000 CFM
 Differential Pressure : Digital Imported – Made in USA
 Flow Rate Indicator : Digital Imported – Made in France

Test aerosol : Salt Type / Kcl
 Particle Counter : Germany Make World Class
 Loading dust : ASHRAE test dust, ISO 12103-A2 (fine) and, ISO 12103-A4 (coarse)
 Filter samples : Pocket and cassette filters with max. Dimensions 610 x 610 mm (other filter also can be test)
 Flat sheet filter media : Also can be test as on pre order request
 Air Supply : Required
 Dust Feeder : Special designed for dispense the dust

- * All Test Rig Will be made From S.S Round Pipe
- * Main Structure made from Square M.S Pipe/ Aluminum Extruder pipe with Automotive paint
- * Air filter test rig adhere with As per above mention Reference test Standard
- * Imported Digital Air Flow Meter with Sensor probe
- * Imported Digital Diff Pressure mono Meter
- * Equipment operated with PLC / Scada With HMI or Computerized operated
- * Pipe Dia meter 304 mm – 12 inches
- * Temperature and Humidity indicator
- * One Set of convergent and divergent unit for Absolute filter Housing
- * Digital Air Flow meter with sensor
- * High Speed Centrifugal blower
- * All Test rig Will be Fitted on a Square MS Base Structure
- * Silencer for low Noise fitted with Blower
- * One Nos Motor make Crompton Greaves / ABB /branded
- * Electric Panel for the above
- * Digital Differential Pressure Indicator
- * Digital Flow indicator with sensor
- * Temperature and humidity display

Dust Feeder :

- * Pneumatic Operated
- * Special Design for easy to operate
- * On-Line Dust weight process
- * Timer for set the dust feed quantity
- * Tank Capacity more than =2.0 Kg
- * Dust tank Transparent Body for Viewing the quantity of Dust
- * Including – Pressure Regulator, Pressure Gauge, Solenoid Valv



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