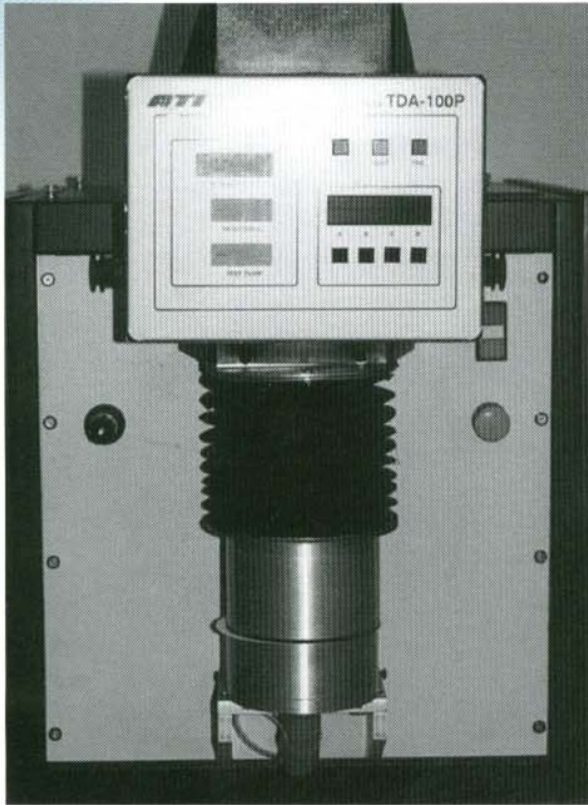


AIR TECHNIQUES



TDA-100P Automatic Filter Tester

tda-100p

The new TDA-100P Automatic Filter Tester utilizes state-of-the-art technology and microprocessor control. This new design features a user-friendly interface to minimize setup and operator training. All functions and operating parameters of the TDA-100P can be programmed using just 4 function keys and the menus are shown in an easy-to-read, alphanumeric, LCD display.

TDA-100P Features The test parameters for Percent Penetration, Filter Resistance and Filter Test Flow are shown on individual digital display panels. All three test parameters have individually adjustable alarm set points which are continuously monitored by the microprocessor. Should a parameter exceed its set point, the FAIL light will illuminate and the parameter's digital display will flash. Testing will not be permitted until the unit is reset.

The microprocessor self-checks the system during operation and the FAULT light alerts the operator to any system faults. The specific problem causing the fault is identified on the LCD display. The monodispersed aerosol is also microprocessor-controlled allowing fully automatic, unattended operation when integrated into an automatic production line.

The new TDA-100P Automatic Filter Tester is housed in a compact, table-top cabinet which features an ergonomic front control panel. The TDA-100P has new safety features on its universal test fixture designed to accommodate any canister filter manufactured today or in the future. An RS-232 port on the TDA-100P gives the capability of data collection for SPC purposes and control of the machine by remote PC.

TDA-100P

benefits

Faster test cycles of filter cartridges or media

Automated control of operating conditions

Minimal requirement for operator time or attention

Eliminates operator error

More reliable operation and test results

Less downtime and operator adjustments

Obtain SPC data

TDA-100P Specifications

AEROSOL GENERATION

Technique - Pneumatic nebulization using cold DOP or cold PAO

Diameter - 0.18 μ CMD (meets 42 CFR Part 84)

Geometric Standard Deviation - <1.6 (meets 42 CFR Part 84)

Concentration - 10 to 200 milligrams per cubic meter (mg/m³)

AEROSOL DETECTION

Technique - Near forward light scattering

Dynamic Range - .0001 to 200 milligrams per cubic meter (mg/m³)

Accuracy - $\pm 1\%$

Sample Flow Rate - Full flow through detector, 10 to 100 liters per minute (lpm)
- 0.35 to 3.53 cubic feet per minute (cu ft/min)

FILTER TEST FLOW MEASUREMENT

Technique - NIST Traceable Mass Flowmeter

Accuracy - $\pm 1/2\%$

Range - 10 to 100 liters per minute (lpm)
- 0.35 to 3.53 cubic feet per minute (cu ft/min)

PRESSURE MEASUREMENT

Technique - Electronic pressure transducer

Accuracy - $\pm 0.5\%$ of full scale

Range - 0 to 200 millimeters water column
- 0 to 5.31 inches water column

EFFICIENCY MEASUREMENT

Flow Rate Through Media - 10 to 100 liters per minute (lpm)
- 0.35 to 3.53 cubic feet per minute (cu ft/min)

Operating Range - Efficiencies to 99.9999%

OPERATIONAL REQUIREMENTS & PHYSICAL CHARACTERISTICS

Power - 115 VAC, 60 Hertz, 2 Amps

Compressed Air - 339.6 slpm @ 5.6 kg/cm²
- 12 scfm @ 80 psig

Size - 32" high \times 28" wide \times 31" deep (30 cubic feet)



AIR TECHNIQUES

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