

## PRODUCT



### 100X AUTOMATED FILTER TESTER

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Performance & Product Specifications			
Unit	100Xp (Oil)	100Xp (Paraffin)	100Xs (Salt)
<b>Standards</b>	NIOSH 42 CFR Part 84 or Equivalent	EN 13274-7:2019 EN 12941/EN 12942	NIOSH 42 CFR Part 84 or Equivalent
<b>Reagents</b>	DOP, PAO-4	Paraffin Oil CAS# 8012-95-1	NaCl
<b>Available Configurations</b>	Manual, Hybrid and Automatic		
Aerosol Generation			
<b>Particle Size</b>			
Count Median Diameter (CMD)	0.185µm ± 0.02	0.29 – 0.45µm	0.075 µm ± 0.02
Geometric Standard Deviation (GSD)	≤ 1.6	1.6 – 2.2	≤ 1.86
Typical Concentration (mg/m <sup>3</sup> )	80 – 120 40 – 60 (High Flow)	15 – 25 15 – 25 (High Flow)	15 – 25
Flow Rate Options	10 – 120 L/min (0.18 – 4.2 SCFM)		
	10 – 40 L/min (0.18 – 1.4 SCFM)		
	10 – 170 L/min (0.18 – 6.0 SCFM)		
Aerosol Flow Accuracy	Accurate to ± 0.4% of reading, plus ± 0.2% full scale		
Aerosol Detection			
<b>FREE FILTER MEDIA TEST!</b> Click Dynamic Range	0.1 µg/m <sup>3</sup> to >200 mg/m <sup>3</sup> , accurate to ± 1% of reading		

Penetration	0.0005%
Efficiency	99.9995%
	Pressure Management
Pressure Range Options	0-25 mm H <sub>2</sub> O/0-245Pa; 1:1 TUR
	0-50 mm H <sub>2</sub> O/0-490Pa; 2:1 TUR
	0-100 mm H <sub>2</sub> O/0-981Pa; >4:1 TUR
	0-250 mm H <sub>2</sub> O/0-2452Pa; >4:1 TUR
Accuracy	±0.25% of full scale
	Test Fixture
Standard	Standard Size: ID 11.4 cm (4.5"); Allows for flat sheet media testing requiring face velocity of 5.33 cm/s at a flow rate of 32 L/min
	Stroke Height: 14.6 cm (5.75")
Custom	On Unit: Please inquire
	Off Unit: No size limit
	Communication Ports
Automatic, Hybrid Models	USB; RS232; Data Connection; PLC-Controls
	Utilities
Power	110VAC , 5.5A; or 220VAC, 2.5A (50/60 Hz)
Compressed Air (Regulator Recommended)	396 L/min at 6.2 bars ± 0.35 Bar (620 KPa ± 35 KPa) or 14 SCFM at 90 psig ± 5.0 psig
Air Supply Line ID	Minimum 9.5 mm (0.375")
	Dimensions (L x W x H)
100X Main Unit	71 cm x 69 cm x 89 cm (28" x 27" x 35")
Optional Base	71 cm x 69 cm x 76 cm (27" x 28" x 30")
Optional Exhaust	42.5 cm x 62.8 cm x 40.6 cm (16.75" x 24.75" x 16")
Optional Mask Test Adapter	20 cm x 20 cm x 14 cm (8" x 8" x 5.5")
	Weight
100X Main Unit	75 kg (165 lbs)
Optional Base	38.6 kg (85 lbs)
Optional Local Exhaust	20 kg (44 lbs)
Optional Mask Test Adapter	1.6 kg (3.5 lbs)
	Compliance
	CE, RoHS, FCC, CSA



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### FILTER BY APPLICATION

- Automated Filter Testing
- Chem Bio Defense
- Cleanroom
- Nuclear
- Pharmaceutical

**SUBMIT**

## HISTORY

Since 1961, Air Techniques has been the leading designer and manufacturer of specialized testing equipment for HEPA filters, media, filter cartridges, respirators and protective masks. Air Techniques manufactures a comprehensive line of test equipment from small portable units for on-site certification up to the largest systems used by major producers and testing laboratories.

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