



AIR-CLEANING DEVICE PERFORMANCE TEST PROCEDURES CAPABILITIES LIST - JANUARY 2007		
Test Code	Test Method	Test Method Description
P1-1	ANSI/ASHRAE 52.1-1992	ASHRAE 52.1 Air-Cleaning Device Particulate Removal Efficiency by Dust-Spot and Gravimetric Procedures (Full)
	Unit, Panel (non-cleanable type) / Extended (non-cleanable type) <i>Atmos. D-S Eff. Range</i> <ul style="list-style-type: none"> • < 20% (no atmos. D-S) • 20 - 30% • 30 - 40% • 40 - 50% • 50 - 60% • 60 - 70% • 70 - 75% • 75 - 80% • 80 - 85% • 85 - 90% • 90 - 95% 	
	Self-Renewable Type <i>Atmos. D-S Eff. Range</i> <ul style="list-style-type: none"> • < 20% (no atmos. D-S) • 20 - 30% 	
	Canister, Gas Turbine (non-cleanable type) <i>Atmos. D-S Eff. Range</i> <ul style="list-style-type: none"> • 20 - 95% 	
P1-2	ANSI/ASHRAE 52.1-1992 (section 9)	ASHRAE 52.1 Air-Cleaning Device Particulate Removal Efficiency <ul style="list-style-type: none"> • Airflow vs. device resistance
P1-3	ANSI/ASHRAE 52.1-1992 (section 10)	ASHRAE 52.1 Air-Cleaning Device Particulate Removal Efficiency <ul style="list-style-type: none"> • Airflow vs. device resistance, atmospheric dust-spot efficiency
P1-4	ANSI/ASHRAE 52.1-1992 (section 11)	ASHRAE 52.1 Air-Cleaning Device Particulate Removal Efficiency <ul style="list-style-type: none"> • Airflow vs. device resistance, synthetic dust weight arrestance



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P2-1	AFTL A 101-78	Tobacco Smoke Removal Efficiency
P3-2	AFTL A 202-80	Silica Dioxide Fractional Removal Efficiency, Silica Dioxide Fraction Dust Weight Arrestance (0-5 µm, 5-10 µm, 10-20 µm, 20-40 µm, 150-300 µm, 300-420 µm, etc.)
P3-3	AFTL A 203-80	Iron Oxide Fractional Removal Efficiency, Iron Dioxide Fraction Dust Weight Arrestance
P3-4	AFTL A 204-83	Aluminum Oxide Fractional Removal Efficiency, Aluminum Oxide Fraction Dust Weight Arrestance
P3-5	AFTL A 205-85	Allergen Removal Efficiency, Allergen Contaminant Weight Arrestance <ul style="list-style-type: none"> • Pollen • Pet Dander • Dust Mites • Fungal Spores • Other Allergen Contaminants
P3-6	AFTL A 206-84	Paint Arrestor Device Removal Efficiency, Paint Fraction Weight Arrestance
P4-1	ANSI/ASHRAE 52.2-1999	ASHRAE 52.2 Air-Cleaning Device Removal Efficiency by Particle Size (KCl; 0.3-10.0 µm)
P4-2	ANSI/ASHRAE 52.2-1999 (section 10)	ASHRAE 52.2 Air-Cleaning Device Removal Efficiency by Particle Size (KCl; 0.3-10.0 µm) <ul style="list-style-type: none"> • Airflow vs. device resistance, initial KCL efficiency
P4-3	AFTL A 301-87	Ambient Atmospheric Particle Size Removal Efficiency, Ambient Atmospheric Dust (0.3-3.0 µm), OPC Laser, @ ASHRAE 52.1-1992 Dust-Spot Interval; ASHRAE 52.1 Tested Device



Air Filter Testing Laboratories, Inc.
 4632 Old LaGrange Road
 Buckner, KY 40010
 Phone (502) 222-5720 | Fax (502) 222-9881
 Internet - aftl.net

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Test Code	Test Method	Test Method Description
P4-4	AFTL A 302-87	Ambient Atmospheric Particle Size Initial Removal Efficiency, Ambient Atmospheric Dust (0.3-3.0 μm), OPC Laser; Clean / Serviced Device
P4-5	AFTL A 302-87	Ambient Atmospheric Particle Size Initial Removal Efficiency, Ambient Atmospheric Dust (0.1-0.5 μm), OPC Laser; Clean / Serviced Device
P4-6	EN 779	Particulate Air Filters For General Ventilation: Determination Of Filtration Performance (European Standard)
P5-1	SAE J726	Air Cleaner Test Code
P5-2	SAE J1669	Passenger Compartment Air Filter Test Code
P6-1	JIS D 1612	Test Methods Of Air Cleaners For Automobiles (JAP. Stds. Assoc.)
P6-2	ISO 5011	Inlet Air Cleaning Equipment For Internal Combustion Engines And Compressors - Performance Testing
P6-3	ARAMCO 32-AMSS-008	Specification - Inlet Air Filtration Systems for Combustion Gas Turbines
P10-4	AFTL A 401-93	Air-Cleaning Device DOP Removal Efficiency: Determination of Cold DOP Removal Efficiency / Penetration, Scan
P10-5	ASTM F 1471-93	Air Cleaning Performance of a High-Efficiency Particulate Air-Filter System (DOP/LAS), DOP Removal Efficiency / Penetration by Spectrometer
P10-6	ASTM F 1215-89	Initial Efficiency of a Flatsheet Filter Medium Using Latex Spheres
P10-10	AFTL A 1001-87	Fibrous Media Air Filter Unit Breach Test
P10-11	AFTL A 1002-92	Fibrous Media Air Filter Unit Shed Test



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Test Code	Test Method	Test Method Description
P10-12	AFTL A 1003-91	Air Filter Unit Housing Leakage Rate
P10-13	AFTL A 1004-95	Glass Fiber Air Filter Media / Unit Binder and Fiber Content
P10-14	AFTL A 1005-92	Air-Cleaning Device Sound Level Test
P10-15	AFTL A 1006-86	Diffusion Media Air Filter Unit Particle Migration Test
P10-16	FED-STD-209E	Airborne Particulate Cleanliness Classes In Cleanrooms and Clean Zones
PX	Varied Protocol / Specification	Customized Particulate Test Procedure