

Solving Your Facility Challenges



PERMATRON[®]

AIR FILTRATION SINCE 1957

PREVENT[®]

AIR INTAKE FILTER

BEFORE



AFTER



✓ Optimize Operating Efficiency

According to EPA research 0.042" of dirt on an air conditioning coil can reduce its efficiency by 21%.

✓ Reduce Energy Consumption

According to the DOE more than 120,000 chillers in the U.S. are expending more than 30% in additional energy through operational inefficiencies. Annual Operating Cost of 100 Ton Chiller can go from \$18,600 to \$48,300 as performance deteriorates. (www.energyinc.net)

✓ Extend Equipment Life/Reduce Repairs

More air conditioning units fail because they are not clean, rather than because of mechanical problems. Clogged air intakes restrict critical air flow and strain compressor motor. Proactive solutions reduce downtime.

✓ Reduce Maintenance/Labor Costs

A pre-filtration defense that captures debris before it enters the system -- easily cleaned with a broom or shop vac. Coil cleaning procedures can cost \$500-\$6,000 per cleaning on multiple units. Large facilities can average 200 coil-cleaning procedures annually. (RSES Journal)

✓ LEED Credits



Mechanical systems are the second largest user of energy in most buildings. Dirty coils use as much as 37% more energy -- 10 Ton A/C system provides only 7 Tons of cooling.

(Air Conditioning Heating & Refrigeration News)



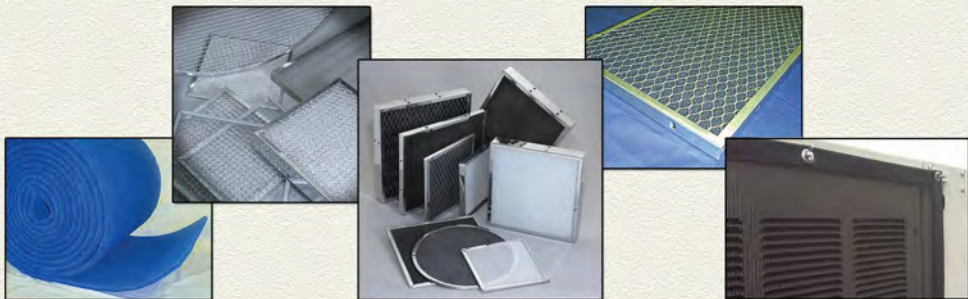
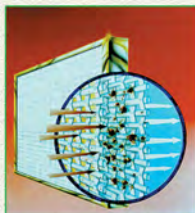
Dirty fins and coils require time consuming hand cleaning and corrosive chemicals



WASHABLE FILTERS MEAN LEAST COST OVER USEFUL LIFE

Exclusive Accumulator Chamber® Design

Using a unitized filter bank design, our electrostatic filters create our Accumulator Chamber® triple action filtration system. The prefilter/afterfilter assembly promotes free air flow with superior dust holding capacity while resisting face loading.



	FILTER MODEL	COMPONENTS	THICKNESS	INITIAL RESISTANCE TO AIR FLOW	ARRESTANCE EFFICIENCY	DUST HOLDING CAPACITY	WARRANTY
PREVENT EQUIPMENT PROTECTION	Model U1	PREVENT® EQUIPMENT PROTECTION FILTER 1 Layer Polypropylene Media Flexible Vinyl Edge	1/8"	0.02 in. w.g.	42%	67 grams	5 Years
	Model U2	PREVENT® EQUIPMENT PROTECTION FILTER 2 Layers Polypropylene Media Flexible Vinyl Edge	1/8"	0.05 in. w.g.	72%	100 grams	5 Years
	Model BHA	PREVENT® EQUIPMENT PROTECTION FILTER 1 Layer Polyvinyl Coated High Abrasion Media Flexible Vinyl Edge	1/8"	0.02 in. w.g.	N/A	N/A	5 Years
	Model R1	PREVENT® EQUIPMENT PROTECTION FILTER 1 Layer Polypropylene Media Rigid Galvanized Steel Frame	1/8"-3/8"	0.02 in. w.g.	42%	67 grams	5 Years
	Model R2	PREVENT® EQUIPMENT PROTECTION FILTER 2 Layers Polypropylene Media Rigid Galvanized Steel Frame	1/8"-3/8"	0.05 in. w.g.	72%	100 grams	5 Years
	Model IN	WASHABLE ELECTROSTATIC FILTER Polypropylene Media & Wire Reinforcement Accumulator Chamber® Design Galvanized or Stainless Steel Frame	1/2", 1", 2"	1"-0.11 in. w.g.	78%	130 grams	5 Years
WASHABLE COMMERCIAL	Model HFA	WASHABLE ELECTROSTATIC FILTER Polypropylene & Non Woven Polyester Media Accumulator Chamber® Design Galvanized or Stainless Steel Frame	1/4", 1/2", 1", 2"	1"-0.20 in. w.g.	89%	120 grams	5 Years
	Model FFA Model FFG	20 PPI WASHABLE FOAM FILTER Aluminum Frame & Mesh Reinforcement Galvanized Steel Frame & Mesh Reinforcement	1/4", 1/2", 1"	1"-0.13 in. w.g.	N/A	N/A	5 Years
	Model PFLO1524 Model PFLO2025	POLYESTER RIGID PAD - HOGS HAIR ALTERNATIVE 15" x 24" Pad - Needs No Frame 20" x 25" Pad - Needs No Frame Bi-directional Air Flow - Cleans Easily With Water	1/2" 1"	0.03 in. w.g. 0.09 in. w.g.	69% 84%	359 grams 229 grams	Disposable Disposable FMV5302
	Model MME	MIST ELIMINATOR METAL MESH FILTER 12 Layers Bonded & Corrugated Aluminum 0.17-0.19 1 Piece Aluminum Frame Wire Reinforcement	1" 2"	0.05 in. w.g. 0.06 in. w.g.	N/A	N/A	5 Years
METAL MESH	Model MMA	ALUMINUM METAL MESH FILTER 5 Layers of Corrugated Aluminum Mesh Wire Reinforcement Aluminum Roll Formed Frame	1/2", 1", 2"	1"-0.03 in. w.g. 2"-0.04 in. w.g.	N/A	N/A	5 Years
	Model MMS	STAINLESS STEEL METAL MESH FILTER Maximum Temperature 900°	1", 2"	1"-0.07 in. w.g.	N/A	300 grams	5 Years
	Model MMG	GALVANIZED STEEL METAL MESH FILTER Maximum Temperature 425°	1" 2"	0.05 in. w.g.	N/A	290 grams	5 Years
	Model MMH	HEAVY DUTY ALUMINUM METAL MESH FILTER Maximum Temperature 275°	1" 2"	0.077 in. w.g.	N/A	585 grams	5 Years
	Model RH	ALUMINUM RANGEHOOD/APPLIANCE FILTERS Multiple Layers Bonded Aluminum Media & Frame	1/8"-1/2"	0.06 in. w.g.	N/A	N/A	5 Years

ALL MODELS U/L CLASSIFIED AS TO FLAMMABILITY



Office Building
Rooftop Economizers



Electronics Manufacturing Plant
Condensing unit with
Microchannel Coils



Office Building
Rooftop AC Unit



Willoworeek Church
Martley Cooling Tower



Glass Processing Plant
Cooling Towers

A Proactive Approach to Equipment Maintenance Begins with Proper Filtration

Well maintained equipment costs less to operate, promotes optimal life expectancy and energy efficiencies. Ensuring that your equipment delivers consistent high-level performance minimizes the need for unnecessary service calls and costly repairs.

These are just a handful of the product applications where Permatron air filtration products have made a difference and effectively solved facility challenges.

Complete product application case history articles can be obtained by calling our customer service department or visiting our website:

www.permatron.com
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Physios Laboratories
HVACR Equipment



Cooling Equipment Air Intakes
Portable Chillers And
125 Ton Cooling Tower



Grocery Store Chain
Rooftop Condensing Units



Osram, Sylvania Plant
Thermal Care Cooling Tower



Drilling Rig Air Intake