



Office Building  
Rooftop Economizers



University Classroom  
Fan Coil Unit Air Intakes



Office Building  
Rooftop AC Unit



Willoworeek Church  
Marley Cooling Tower



Michigan State Capital Building  
Ground Louvers

## 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](http://www.permatron.com)  
1-800-882-8012  
[sales@permatron.com](mailto:sales@permatron.com)

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Physics Laboratories  
HVACR Equipment



Cooling Equipment Air Intakes  
Portable Chillers And  
125 Ton Cooling Tower



Youngquist Brothers Rock Quarry  
Dragline Equipment Air Intake



Osram Sylvania Plant  
Thermal Care Cooling Tower



Drilling Rig Air Intake

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# Solving Your Facility Challenges



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**PERMATRON**  
AIR FILTRATION SINCE 1957



# KEEP MAINTENANCE COSTS LOW & EQUIPMENT EFFICIENCY HIGH

Going Green with Proper Filtration



Mechanical systems are the second largest user of energy in most buildings. Common problems with HVAC equipment and controls can increase a building's energy consumption 15-30%.

According to EPA research O.042" of dirt on an air conditioning coil can reduce its efficiency by 21%.

## Effective Air Filtration Promotes:

- Optimized Operating Efficiency
- Reduced Energy Consumption
- Reduced Greenhouse Gas Emissions
- Extended Equipment Life
- Minimized Repairs and Downtime
- Reduced Maintenance and Chemicals
- Improved IAQ
- LEED Credits

### Reduce Maintenance, Repair and Labor Costs

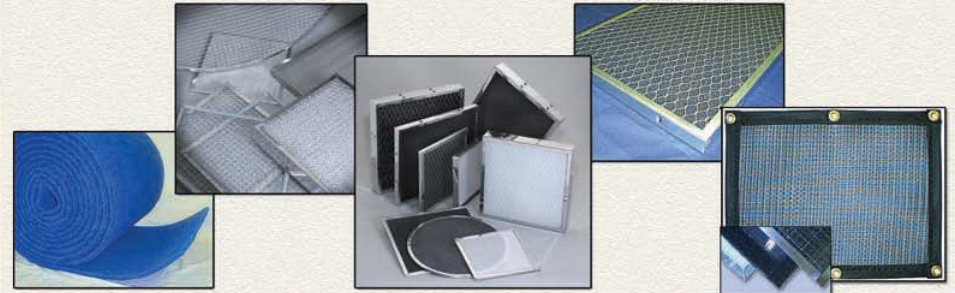
Clogged air intakes restrict air flow so that equipment is forced to run for longer cycles at reduced capacity and higher temperatures. Permatron's PreVent® Protection Filters are a prefiltration defense, that captures debris before it enters the system and interior filters. This filter can be easily brushed clean with a broom versus having to clean the delicate fins and coils with time consuming hand brushing and messy corrosive chemicals that can damage the system components and the environment over time.



# WASHABLE FILTERS MEAN LEAST COST OVER USEFUL LIFE

## Exclusive Accumulator Chamber® Design

Using a unitized filter bank design, our electrostatic filters contain multiple sets of media assembled with distinct separation to 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	UL CLASS	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	Class 2	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	Class 2	5 Years
	Model BHA	PREVENT® EQUIPMENT PROTECTION FILTER 1 Layer Polypropylene High Abrasion Media Flexible Vinyl Edge	1/8"	N/A	N/A	N/A	Class 2	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	Class 1or2	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	Class 1or2	5 Years
WASHABLE COMMERCIAL	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	Class 1	5 Years
	Model HFA	WASHABLE ELECTROSTATIC FILTER Polypropylene & Non Woven Polyester Media Accumulator Chamber® Design Galvanized or Stainless Steel Frame 20 PPI WASHABLE FOAM FILTER	1/4", 1/2", 1", 2"	1"-0.20 in. w.g.	89%	120 grams	Class 2	5 Years
	Model FFA Model FFG	Aluminum Frame & Mesh Reinforcement Galvanized Steel Frame & Mesh Reinforcement POLYESTER RIGID PAD - HOGS HAIR ALTERNATIVE	1/4", 1/2", 1"	1"-0.13 in. w.g.	N/A	N/A	Class 2	5 Years
	Model PFL01524 Model PFL02025	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	Class 2 & FMV302	Disposable
METAL MESH	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	Class 1	5 Years
	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	Class 1	5 Years
	Model MMS	STAINLESS STEEL METAL MESH FILTER Maximum Temperature 900°	1", 2"	1"-0.07 in. w.g.	N/A	300 grams	Class 1	5 Years
	Model MMG	GALVANIZED STEEL METAL MESH FILTER Maximum Temperature 425°	1" 2"	0.05 in. w.g.	N/A	290 grams	Class 1	5 Years
	Model MMH	HEAVY DUTY ALUMINUM METAL MESH FILTER Maximum Temperature 275°	1" 2"	0.077 in. w.g.	N/A	585 grams	Class 1	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	Class 1	5 Years