

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.energync.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.

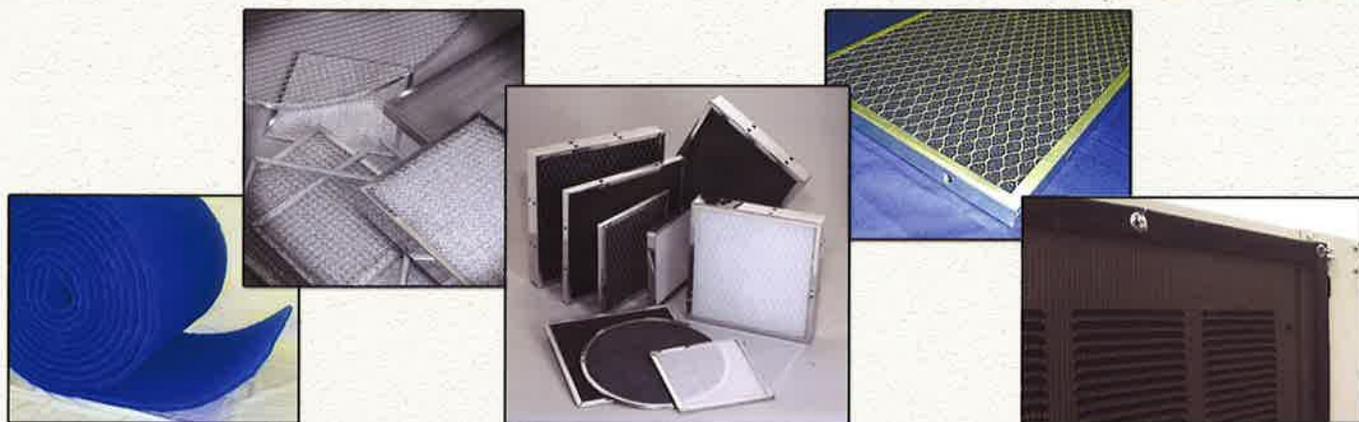
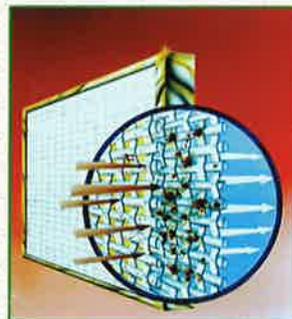
(Air Conditioning Heating & Refrigeration News)



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.

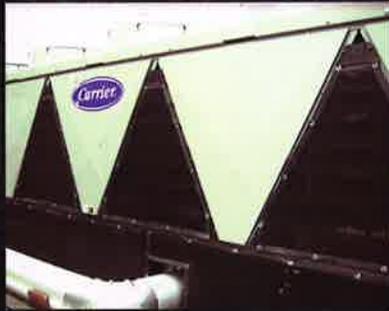


| | FILTER MODEL | COMPONENTS | THICKNESS | INITIAL RESISTANCE TO AIR FLOW | ARRESTANCE EFFICIENCY | DUST HOLDING CAPACITY | WARRANTY |
|--|--|--|--|--------------------------------------|-----------------------|------------------------|--------------------------------------|
| PREVENT EQUIPMENT PROTECTION | 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 |
| | 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 |
| 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 FMVSS302 |
| Model SME | | SYNTHETIC MIST ELIMINATOR COALESCING FILTER Layers honeycombed, corrugated & tubular polypropylene Stainless Steel Frame & Wire Reinforcement | 2" | N/A | N/A | N/A | 5 Years |
| 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 |
| 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



Willowcreek Church
Marley 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
1-800-882-8012
sales@permatron.com



Physics 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