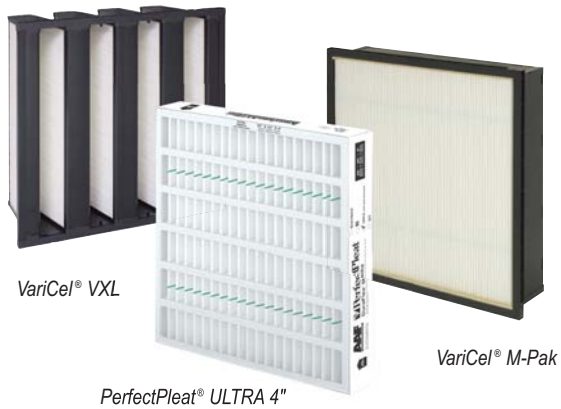
Health Care Product Solutions with Cost Savings Benefits

Indoor Air Quality Solutions through Surveys, Seminars, and Service



VariCel® VXL

VariCel® M-Pak

PerfectPleat® ULTRA 4"

Prefilters

PerfectPleat® ULTRA MERV 8

- **Media contains antimicrobial**
- **Duraflex® memory media resists damage**
- **15 Pleats per lineal foot**
- **Available in 1", 2" and 4" models**
- **Special sizes available**
- **Fully incinerable**

Final Filters

VariCel® M-Pak

- **A new 6"-deep filter with the same media area and performance as 12"-deep filters**
- **Available in MERV 14, 13 and 11 efficiencies**
- **Reduces storage and disposal costs**
- **Lightweight and fully incinerable**

Extended Life Final Filters

VariCel® VXL and BioCel® VXL

- **Available in MERV 16, 15, 14, and 13 models**
- **98% efficient on 0.3 micron (BioCel® VXL filter)**
- **Low initial pressure drop: .38 in. w.g. @ 500 FPM (MERV 14) VariCel VXL filter and .60 in. w.g. @ 500 FPM (MERV 16) BioCel VXL filter**
- **200 square feet of media area**
- **High-Impact Polystyrene (HIPS) cell sides**
- **Fully incinerable**

For additional information or to place an order Call 1.888.223.2003 or Fax 1.888.223.6500

2007 ASHRAE Handbook — HVAC Applications Health Care Facilities

Filter Efficiencies for Central Ventilation and Air Conditioning Systems

Minimum Number of Filter Beds	Area Designation	Filter Efficiencies MERV* Filter Bed No.1	Filter Efficiencies MERV* Filter Bed No.2
	Chapter 7, Table 1		
	General Hospitals and Outpatient Treatment Clinics		
2	Orthopedic Operating Room Bone Marrow Transplant O.R. Organ Transplant O.R.	8	17[b]
2	General Procedure Rooms Delivery Rooms Nurseries Intensive Care Units Patient Care Rooms Treatment Rooms Diagnostic & Related Areas	8	14
1	Laboratories Sterile Storage	13	
1	Food Preparation Areas Laundries Administrative Areas Bulk Storage Soiled Holding Areas	8	
	Chapter 7, Table 5		
	Nursing Facilities and Diagnostic Clinics		
1	Patient care, treatment, diagnostic, and related areas	15	
1	Food preparation areas and laundries	8	
1	Administrative, bulk storage, and soiled holding areas	6	

*MERV (Minimum Efficiency Reporting Value) based on ASHRAE 52.2-1999. [b]HEPA filters at air outlets.

Advantages

- ASHRAE recommendations are met with the PerfectPleat ULTRA, VariCel M-Pak, and VariCel VXL filters
- Energy savings are realized when using a higher MERV rating with lower initial pressure drop
- Antimicrobial ensures the integrity of the media throughout its useful service life
- Multiple areas of cost savings are realized by using PerfectPleat ULTRA, VariCel M-Pak, and VariCel VXL filters

See back of this page for important information regarding air filtration strategies for LEED® Project Certification.

AmericanAirFilter®

Total Filtration Solutions for Green Buildings

LEED® for Existing Buildings: Operation & Maintenance Certification Support

Category	Recommended Activities
Energy & Atmosphere	
Prerequisite 2: Minimum Energy Efficiency Performance Required Activity	Use an energy analysis tool to understand the impact of the filter airflow resistance on HVAC system energy usage costs.
Credit 1.1-1.10: Optimize Energy Efficiency Performance 2-15 Points; 2 Points Mandatory	Complete life cycle and energy cost analyses on the HVAC filter system and switch to a lower resistance air filter to reduce energy costs and loads.
Credit 3.2-3.3: Performance Measurement: System-Level Metering 1-2 Points	Implement metering devices to measure air distribution static pressure and ventilation air volumes. Use pressure gauges to measure resistance to airflow to determine the appropriate change-out cycle for filters.
Credit 6: Emission Reduction Report 1 Point	Use an energy analysis tool to determine the amount of energy saved and green house-gas emissions reduced by using low-resistance air filters. For internally generated chemical contaminants use SAAF products for source control.
Materials & Resources	
Credit 6: Solid Waste Management: Waste Stream Audit 1 Point	Switch from standard-capacity filters and/or bag style to mini-pleat V-bank final filters. This extends filter life to reduce change outs and waste streams, while minimizing resistance to airflow.
Indoor Environmental Quality	
Prerequisite 2: Environmental Tobacco Smoke (ETS) Control Required Activity	Install a HEPA (High Efficiency Particulate Air) filter to filter exhaust air to the outside. Install SAAF equipment and use SAAF chemical media to remove airborne contaminants from smoking room.
Credit 1.1: IAQ Best Management Practices: IAQ Management Program 1 Point	Perform surveys and educate maintenance staff about filtration fundamentals and application of various air filtration technologies by using programs offered by AAF representatives and the National Air Filter Association.
Credit 1.4: IAQ Best Management Practices: Reduce Particulates in Air Distribution 1 Point	Install MERV 13 or greater air filters. Follow a regular schedule for air filter maintenance to keep unfiltered bypass air from entering the ductwork and breathing air.
Credit 1.5: IAQ Best Management Practices: Management for Facility Alterations and Additions 1 Point	Install MERV 8 filters at each return air grill for air handlers used during construction. Conduct a two-week building flush out with new air filters and 100% outdoor air prior to occupancy.
Innovation & Design Process	
Credit 1.1-1.4: Innovation in Operations 1-4 Points	Upgrade to a MERV 14 or 15 air filter, or upgrade to filters made with synthetic media, which typically have lower pressure drop and do not absorb moisture or promote microbial growth. Document supplier source reductions, use air filters with recycled content, and utilize gaskets on all filters and holding frames.

AAF INTERNATIONAL®
10300 Ormsby Park Place Suite 600
Louisville, Kentucky 40223-6169

www.aafintl.com
Customer Service 888.AAF.2003
Fax 888.223.6500

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