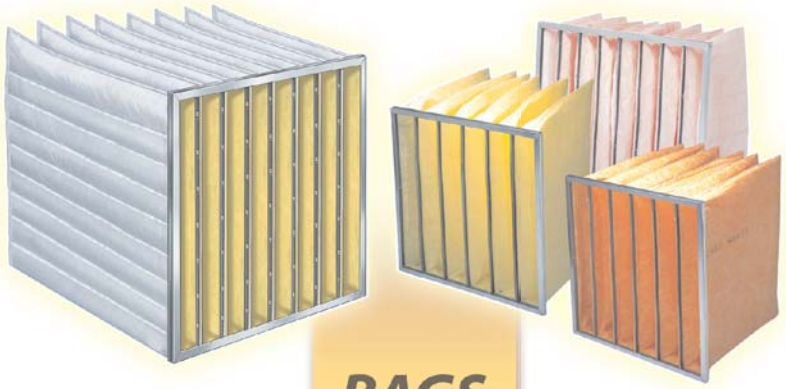
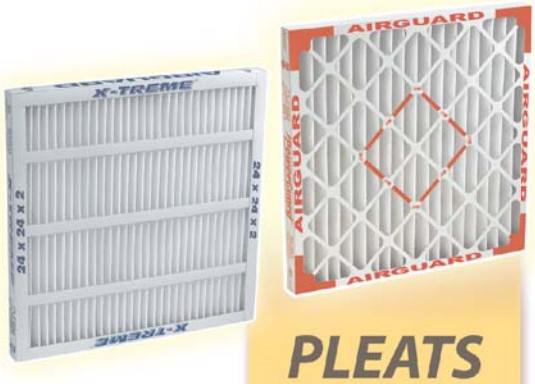
AIRGUARD®

# AIR FILTER SELECTION GUIDE



BAGS

RIGIDS




PLEATS

CUSTOMS

HEPA

# FILTER SELECTION OPTIONS

*HVAC Applications*

| Typical Applications | Type of Air Handling Equipment | Typical Air Prefilters | Typical Air Airguard Product Selection |
|---|---|---|---|
| Residential<br>Apartments, Condominiums<br>Single Family Homes | Room Air Conditioners<br>Residential Furnace & Air Conditioning Units | Not Applicable | Not Applicable |
| Light Commercial, Industrial<br>Hotels, Motels (Sleeping Rooms)<br>Light Industrial<br>Nursing Homes<br>Schools (Classrooms)<br>Small Office Buildings | Light Commercial Heating & Air Conditioning Units<br>Packaged Terminal Air Conditioners<br>Unit Ventilators<br>Fan Coil Units | Not Applicable | Not Applicable |
| Commercial, Industrial, Institutional<br>Airports<br>Auditoriums<br>Banks<br>Bars, Cocktail Lounges<br>Bowling Alleys<br>Casinos<br>Commercial Buildings<br>Correctional Facilities<br>Electric Utilities<br>Food Processing<br>Government Buildings<br>Health Care Facilities<br>Inpatient Care, Administrative, Sterile Processing, Food Processing, Storage, Soiled Holding Areas<br>Hotels (Public Spaces)<br>Industrial Plants - Offices, Plant Air<br>Institutional Facilities<br>Museums<br>Residential (High Rise)<br>Restaurants, Cafeterias<br>Retail Stores, Super Markets<br>Schools, Universities<br>Sports Arenas, Gymnasiums<br>Theaters<br>Train Stations, Bus Depots<br>Warehouses, Storage Areas | Rooftop Air Handling Units<br>Central Station Air Handlers<br>Built Up Frame Banks<br>Side Access Housings | Disposable Panel Filters<br>Pleated Panel Filters<br>Filter Media & Frames<br>Ring Panels, Links<br>Poly Cube Filters<br>Self-Supported Pocket Filters<br>Extended Surface Pocket Filters (40%)<br>Automatic Roll Filters | Triplex 85<br>Type DP, DP Max, PowerGuard, DP-gReen<br>Bio-Pure,StreamLine (Synthetic), Fiber Glass<br>Series N, Bio-Pure,<br>ULTRA II<br>Syn-Pak<br>Clean-Pak CP4, Venti-Pak VP-4<br>Fiber Glass, Synthetic, |
| Sensitive Processes<br>Health Care<br>Protective Environment Rooms, Airborne Infection Isolation Rooms, Surgical Suites<br>Labs<br>Microelectronics, Semiconductor<br>Pharmaceutical Production<br>Photo Film<br>Research Facilities<br>Universities | Rooftop Air Handling Units<br>Central Station Air Handlers<br>Built Up Frame Banks<br>Side Access Housings | Disposable Panel Filters<br>Pleated Panel Filters<br>Filter Media & Frames<br>Ring Panels, Links<br>Poly Cube Filters<br>Self-Supported Pocket Filters<br>Extended Surface Pocket Filters (40%)<br>Automatic Roll Filters | Triplex 85<br>Type DP, DP Max, Power Guard, DP-gReen<br>Bio-Pure, StreamLine (Synthetic), Fiber Glass<br>Series N, Bio-Pure<br>Syn-Pak<br>Clean-Pak CP4, Venti-Pak VP-4<br>Fiber Glass, Synthetic, |

**Ducted Ceiling Modules**
- Low profile design - only 5" deep
- Roomside adjustable diffuser
- Anodized extruded aluminum construction

**Legacy High Efficiency Rigid Cell Extended Surface Filters**
- Performance up to MERV 15
- Sustainable Component for a LEED/Green Building Initiative

Patent #6,685,833

**Microguard® HEPA, ULPA Filters**
- 99.97%, 99.99%, 99.999% efficiencies
- Separator style media pack
- Wood or metal construction
- Individually tested

**MicroPleat™ HEPA, ULPA Filters**
- 99.99%, 99.999%, 99.9995% efficiencies
- Mini-pleat media pack
- Anodized extruded aluminum cell sides
- All cell side configurations gasket seal, gel seal, knife edge

*Innovative Clean Air Solutions*

## Filter Products

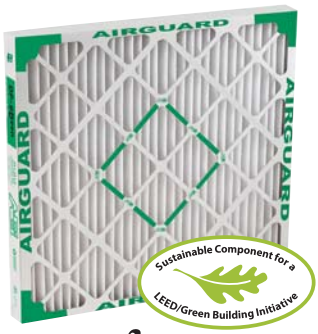
| Final Filters | Airguard Product Selection |
|---|---|
| Disposble Panel Filters<br>Pleated Panel Filters (1")<br>Polyurethane Foam<br>Latex Coated Natural Fiber (Hog's Hair) | Triplex 85<br>Type DP, DP Max, PowerGuard,<br>Poly Foam<br>Permalast |
| Disposable Panel Filters<br>Pleated Panel Filters<br>Ring Panel Filters<br>Slip-Ons<br>Filter Media & Frames | Triplex 85<br>Type DP, DP Max, PowerGuard, Bio-Pure, DP-gReen<br>Series N, Bio-Pure<br>Slip-Ons<br>StreamLine (Synthetic), Fiber Glass |
| Extended Surface Pocket Filters (50 - 90%)<br>Extended Surface Rigid Cell Filters (60 - 95%) | Clean-Pak, Multi-Guard, Venti-Pak<br>Variflow, Variflow SC, Variflow II, Variflow II-M,<br>Variflow II-MC, Vari+Plus, Vari-Pak, Vari-Pak S, LEGACY 4" and 12", Bio-Pure |
| Extended Surface Pocket Filters (50 - 90%)<br>Extended Surface Rigid Cell Filters (60 - 95%)<br><br>HEPA, ULPA Filters<br>Disposable Ducted Ceiling Modules<br>Replaceable Filter Ceiling Modules<br>Fan / Filter Units | Clean-Pak, Multi-Guard, Venti-Pak<br>Variflow, Variflow SC, Variflow II, Variflow II-M,<br>Variflow II-MC, Vari+Plus, Vari-Pak, Vari-Pak S, Bio-Pure<br>Microguard (Separator Style), MicroPleat (Mini Pleat)<br>MicroPleat<br>Micro+Plus<br>MicroPleat |

**Purolator® Disposable Panel Filters**
- Fiber glass and synthetic media
- High strength pinch frame construction
- Space saving nested packaging

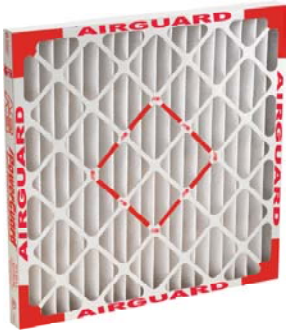
**Ring Panel Filters**
- Select from four styles
- Tackified media for high dust holding capacity, long service life
- MERV 6 to 7

Mechanical MERV 8

**Type DP® and DP Max Pleated Panel Filters**
- High wet strength beverage board frame
- Durable double wall construction
- MERV 8




**DP-gReen Pleated Panel Filters**
- LEED/Green Compliant
- 100% Synthetic Media
- MERV 13




**PowerGuard® Pleated Panel Filters**
- Highest initial and average efficiency with electrostatically enhanced, needled media
- MERV 11

**Vari+Plus® VP High Capacity Rigid Cell Filters**
- Mini-pleat media pack design for low resistance
- Rigid all plastic construction
- Dura-Tuff™ 100% synthetic media

**ULTRA II** Self-Supported Pocket Filters
- Cube style and multi-pocket models
- Durable, moisture resistant polyester media
- Outstanding service life

**Variflow® High Efficiency Rigid Cell Filters**
- Rigid cell design for difficult operating conditions
- Moisture resistant construction
- Three efficiencies

**Clean-Pak™ Extended Surface Pocket Filters**
- Sonic sealed or sewn pocket construction
- Best value in high efficiency filtration
- U.L. Class 1 and 2
- Five efficiencies

# AIR FILTER SELECTION GUIDE

*Filter Efficiency Selection*

| Arrestance | Efficiency | MERV | Filter Type | Airguard Product Selection |
|---|---|---|---|---|
| 60 - 80% | Less Than 20% | MERV 1 - 4 | Disposable Panel Filters<br>Permanent Metal Filters<br>Fiberglass Media<br>Latex Coated Natural Fiber Media<br>Foam Media<br>Automatic Roll Filter Media | Purolator™ Disposables<br>Types HS, HD<br>Standard Grade<br>Permalast®<br>Foam Media<br>Types CF, DSF |
| 80 - 90% | Less Than 20% | MERV 5 | Disposable Panel Filters<br>Synthetic Media<br><br>Automatic Roll Filter Media | Tri-Plex 85®<br>StreamLine™ Polyester Media<br><br>Types YTS, SHP, DMC, DL-1, DL-2 |
| 90 - 95% | 20 - 30% | MERV 6 - 7 | Cube Filters<br>Self-Supported Pocket Filters<br>Ring Panel Filters<br>Pleated Panel Filters | Activator Ring Panels™<br>Activator Series (2 Ply, 3 Ply)<br>Series N, Bio-Pure<br>X-Treame<br>DP4-SA, Bio-Pure |
| 95% | 30 - 40% | MERV 7 - 8 | Self-Supported Pocket Filters<br>Ring Panel Filters<br>Pleated Panel Filters | ULTRA II, SynPak DPGT, DP-40®, DP Max, PowerGuard™ (MERV-11), DP Class 1, DPHT, Fresh Air™, Fresh Air™ Supreme |
| 95 - 98% | 40 - 50% | MERV 8 - 9 | Extended Surface Pocket Filters | Venti-Pak® VP-4, Clean-Pak™ CP-4 |
| 95 - 98% | 50 - 60% | MERV 9 - 10 | Pleated Panel Filters<br>Extended Surface Rigid Cell Filters<br>Extended Surface Pocket Filters | DP-65 (MERV 11)<br>Vari-Pak, Vari-Pak Model S<br>Venti-Pak VP-5, Clean-Pak CP-5 |
| 99% | 60 - 70% | MERV 10 - 11 | Extended Surface Pocket Filters<br><br>Extended Surface Rigid Cell Filters | Clean-Pak CP-6, Venti-Pak VP-6<br>Bio-Pure<br><br>Variflow®, Variflow SC, Variflow Compact Series, Variflow II, Variflow II-M, Variflow II-MC, Vari+Plus®, Vari-Pak®, Vari-Pak Model S, Bio-Pure, V-Force, Legacy 4" & 12" |
| 99% | 70 - 80% | MERV 12 - 13 | Extended Surface Pocket Filters<br><br>Pleated Panel Filters | Multi-Guard MG-7<br><br>DP-gReen |
| 99% | 80 - 90% | MERV 13 - 14 | Extended Surface Pocket Filters<br><br>Extended Surface Rigid Cell Filters | Clean-Pak CP-8, Venti-Pak VP-8, Multi-Guard MG-8, Bio-Pure<br><br>Variflow, Variflow SC, Variflow Compact Series, Variflow II-M, Variflow II-MC, Vari+Plus, Vari-Pak,Vari-Pak Model S, Bio-Pure, V-Force, Legacy 4" |
| 99% | 90 - 95% | MERV 14 - 15 | Extended Surface Pocket Filters<br><br>Extended Surface Rigid Cell Filters | Clean-Pak CP-9, Venti-Pak VP-9, Multi-Guard MG-9, Bio-Pure<br>Variflow, Variflow SC, Variflow Compact Series, Variflow II-M, Variflow II-MC, Vari+Plus, Vari-Pak, Vari-Pak Model S, Bio-Pure, Legacy 12", V-Force, X-treme |
| NA | 95% DOP | MERV 16 | Extended Surface Rigid Cell Filters | Microguard® 95, Vari+Plus |
| NA | 99.97%<br>99.99%<br>99.999%<br>99.9995% | NA | HEPA/ULPA Filters | Microguard 99, MicroPleat™ |

(1) Arrestance and Dust Spot Efficiency ratings are based on the ASHRAE 52.1 - 1992 test method.
(2) Minimum Efficiency Reporting Value (MERV) ratings are based on the ASHRAE 52.2 test method.

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