# PRODUCT SELECTION GUIDE

## FILTRATION SOLUTIONS TO IMPROVE THE QUALITY OF LIFE

FREUDENBERG
FILTRATION TECHNOLOGIES

FREUDENBERG
INNOVATING TOGETHER

viledon®

# THE VILEDON® DIFFERENCE

In today's complex world, it takes an equally complex combination of intelligence, commitment and scientific resources to solve air filtration problems. For more and more companies faced with such problems...Viledon® is not just a product. It's a total solution.

Viledon® air filtration products are designed to meet the requirements of specific applications from the development of custom-made media through to the finished product.

# OUR COMMITMENT TO YOU…

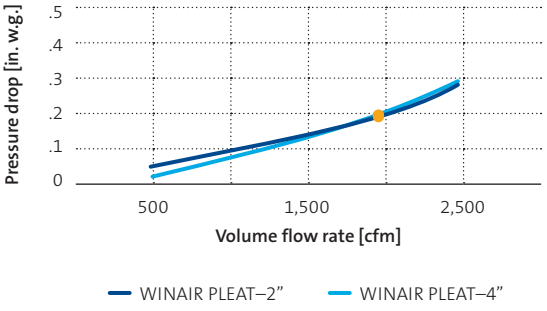
When a market need arises, Viledon®'s media scientists and filter design engineers work in concert to develop a comprehensive solution to the problem. All the resources required to generate such solutions regardless of their complexity are available within the Freudenberg Filtration Technologies organization.

No other manufacturer has the depth of experience and scientific expertise in place to make this level of commitment.

# MEDIUM EFFICIENCY FILTERS

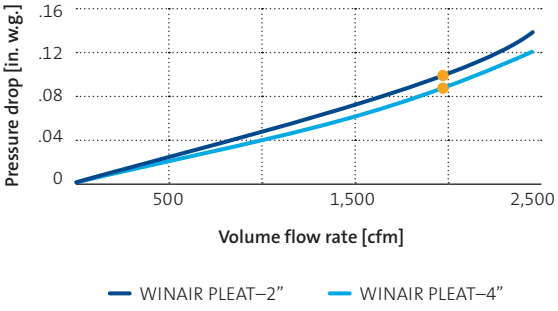
## WINAIR PLEAT

- General HVAC filtration
- Prefilter for second stage of high-efficiency filters
- Standard sizes available
- **MERV Rating 7**



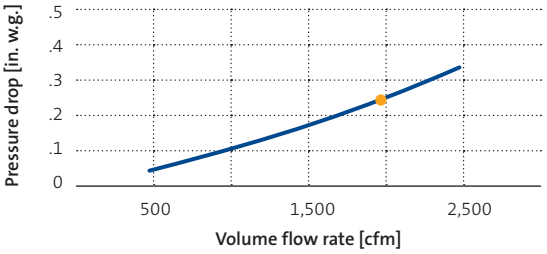

## MINI RF

- General HVAC filtration
- Gas Turbine Prefilter
- Prefilter for second stage of high-efficiency filters
- Standard sizes available
- All plastic construction
- Washable
- **MERV Rating 7**



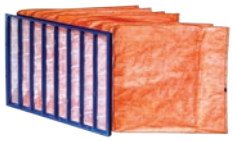

## R1/ES3

- General HVAC filtration
- Prefiltration for high efficiency filters 2 layer progressive media
- Adhesive tackifier
- LEED Construction minimum filtration
- **MERV Rating 8**



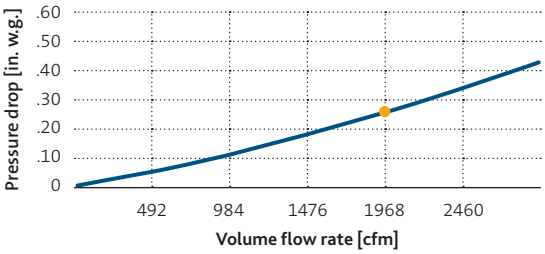

| GEOMETRIES AVAILABLE | | WINAIR PLEAT 2" | WINAIR PLEAT 4" | MINI RF 2" | MINI RF 4" | R1/ES3 |
|---|---|---|---|---|---|---|
| Nominal Volume Flow Rate | cfm | 1968 | | | | 1968 |
| Initial Pressure Drop | "w.g. | .23 | .27 | .10 | .09 | .25 |
| Thermal Stability | °F | 160° Peaks @200° | | | | 212° Peaks @250° |
| Final Pressure Drop | "w.g. | 1 | 1 | 1.5 | 1.5 | 1.5 |
| MERV @1968 | 1-16 | 7 | 7 | 7 | 7 | 8 |
| UL 900 Classification | | Class 2 | Class 2 | Class 1 | Class 1 | Class 2 |
| Burst Strength | "w.g. | >2 | >2 | >4 | >4 | >4 |

# WINAIR POCKET FILTERS



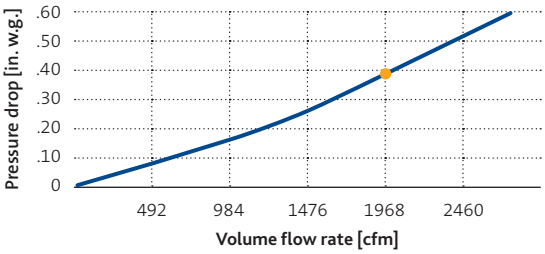
## WINAIR 75

- Final/Prefiltration for general equipment and HVAC systems
- Dual-Layer synthetic media
- Non-shedding synthetic fibers
- Resistant to moisture and chemicals
- **MERV Rating 12**




## WINAIR 95

- Final filtration for general equipment and HVAC systems
- Dual-Layer synthetic media
- Non-shedding synthetic fibers
- Resistant to moisture and chemicals
- **MERV Rating 14**

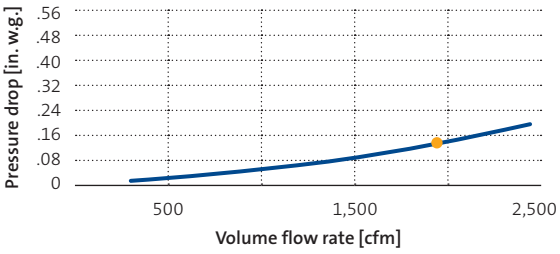



| GEOMETRIES AVAILABLE | | WINAIR 75 | WINAIR 95 |
|---|---|---|---|
| Nominal Volume Flow Rate | cfm | 1968 | |
| Initial Pressure Drop | "w.g. | .26 | .39 |
| Thermal Stability | °F | 150° | |
| Final Pressure Drop | "w.g. | 1.50 | |
| MERV @1968 | 1-16 | 12 | 14 |
| ASHRAE 52.1 Equivalent Efficiency* | % | 70-75% | 90-95% |
| UL 900 Classification | | Class 2 | |
| Burst Strength | "w.g. | >9 | |

# MEDIUM EFFICIENCY POCKET FILTERS

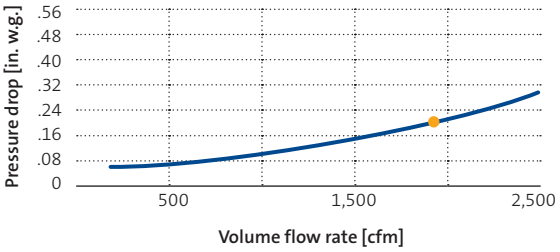
## F50

- General fine filtration for HVAC systems
- High humidity prefiltration
- General gas turbine prefiltration
- Prefiltration for industrial paint spray booths
- Prefilter for second stage of high-efficiency filters
- Self-Supporting pocket filter
- **MERV Rating 9**



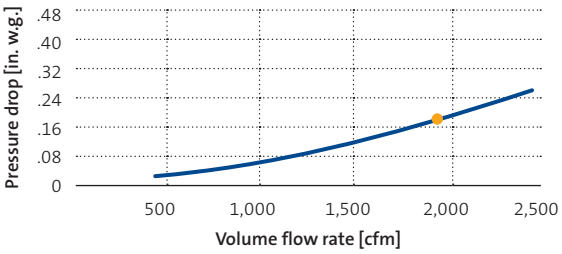

## T60

- General fine filtration for HVAC systems
- Gas turbine prefiltration
- Prefiltration in industrial paint spray booths
- Solid/liquid separation, demisting and salt coalescing
- Self-Supporting pocket filter
- **MERV Rating 10**




## F45S

- General fine filtration for HVAC where depth is restricted
- Gas Turbine Prefilter
- Prefilter for second stage of high-efficiency filters
- Low pressure drop
- LEED Construction minimum filtration
- **MERV Rating 8**

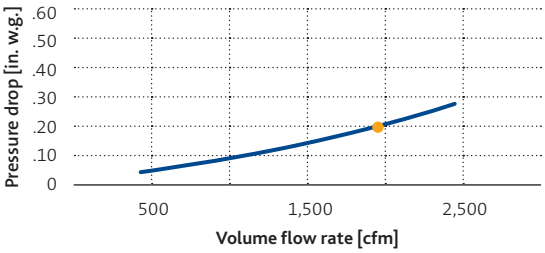



| GEOMETRIES AVAILABLE | | F50 | T60 | F45S |
|---|---|---|---|---|
| Nominal Volume Flow Rate | cfm | 1968 | | |
| Initial Pressure Drop | "w.g. | .14 | .21 | .18 |
| Thermal Stability | °F | 160° Peaks@200° | | 212° Peaks @250° |
| Final Pressure Drop | "w.g. | 1.50 | | |
| MERV @1968 | 1-16 | 9 | 10 | 8 |
| UL 900 Classification | | Class 2 | | |
| Burst Strength | "w.g. | >12 | | |

# HIGH EFFICIENCY POCKET FILTERS

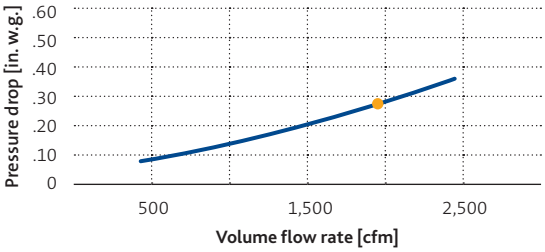
## MF70

- General fine filtration for HVAC systems
- 3 layer progressively structured media
- Prefiltration in industrial paint spray booths
- LEED occupied building minimum filtration
- **MERV Rating 13**



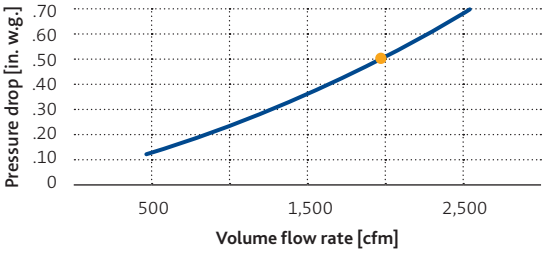

## MF90

- Ultrafine synthetic filtration for HVAC systems:
  Hospitals, airports, office buildings, pharmaceuticals, electronics, gas turbine fine filtration, and industrial paint spray booths
- Prefilters for HEPA filters
- VOC abatement systems
- **MERV Rating 14**




## MF95

- Ultrafine synthetic filtration for HVAC systems:
  Hospitals, airports, office buildings, pharmaceuticals, electronics, and industrial paint spray booths
- Final filters on air discharged to environment
- Prefilters for HEPA filters
- **MERV Rating 16**
  (highest MERV rating of any pocket filter)

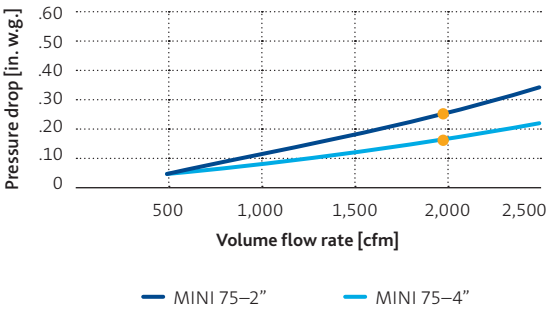



| GEOMETRIES AVAILABLE | | MF70 | MF90 | MF95 |
|---|---|---|---|---|
| Nominal Volume Flow Rate | cfm | | 1968 | |
| Initial Pressure Drop | "w.g. | .23 | .36 | .50 |
| Thermal Stability | °F | | 160° Peaks@200° | |
| Final Pressure Drop | "w.g. | | 1.50 | |
| MERV @1968 | 1-16 | 13 | 14 | 16 |
| ASHRAE 52.1 Equivalent Efficiency* | % | 85-90% | 90-95% | — |
| UL 900 Classification | | | Class 2 | |
| Burst Strength | "w.g. | | >12 | |

# HIGH EFFICIENCY EXTENDED MINI SURFACE FILTERS

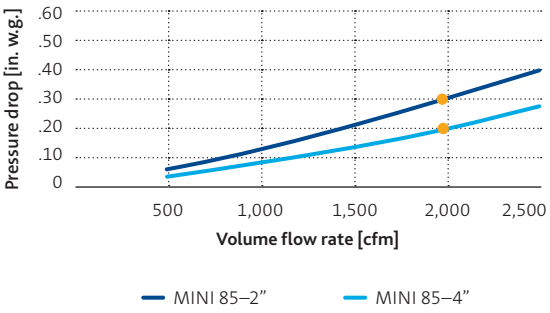
## MINI 75

- Compact design for air handlers with space restrictions
- Fine filtration in HVAC
- Fine synthetic filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, and industrial paint spray booths*
- Gas turbine prefiltration
- High turbulence/high humidity environments
- All plastic light-weight construction
- **MERV Rating 12**



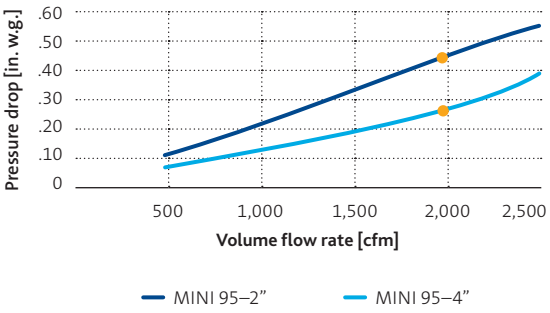

## MINI 85

- Compact design for air handlers with space restrictions
- Fine filtration in HVAC
- Fine synthetic filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, and industrial paint spray* booths
- High turbulence/high humidity environments
- All plastic light-weight construction
- LEED occupied building minimum filtration
- **MERV Rating 13**




## MINI 95

- Compact design for air handlers with space restrictions
- Fine filtration in HVAC
- Ultra Fine synthetic filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, and industrial paint spray booths*
- High turbulence/high humidity environments
- All plastic light-weight construction
- **MERV Rating 14/15**

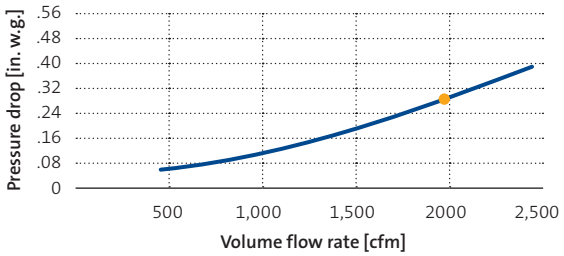



| GEOMETRIES AVAILABLE | | MINI 75 | | MINI 85 | | MINI 95 | |
|---|---|---|---|---|---|---|---|
| | | 2" | 4" | 2" | 4" | 2" | 4" |
| Nominal Volume Flow Rate | cfm | 1968 | | | | | |
| Initial Pressure Drop | “w.g. | .25 | 16 | .26 | .19 | .45 | .30 |
| Thermal Stability | °F | 160° Peaks@175° | | | | | |
| Final Pressure Drop | “w.g. | 1.50 | | | | | |
| MERV @1968 | 1-16 | 12 | 12 | 13 | 13 | 14 | 15 |
| ASHRAE 52.1 Equivalent Efficiency* | % | 70-75% | | 85-90% | | 90-95% | |
| UL 900 Classification | | Class 1 | | | | | |
| Burst Strength | “w.g. | >4 | | | | | |

# WINAIR MVP HIGH EFFICIENCY EXTENDED SURFACE V-STYLE FILTERS

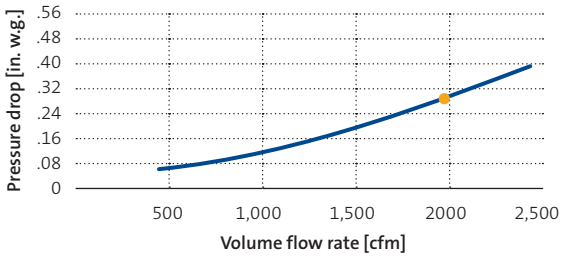
## MVP75

- Fine synthetic filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, gas turbine prefiltration and industrial paint spray booths*
- High turbulence/high humidity environments
- Fully potted construction
- **MERV Rating 12**



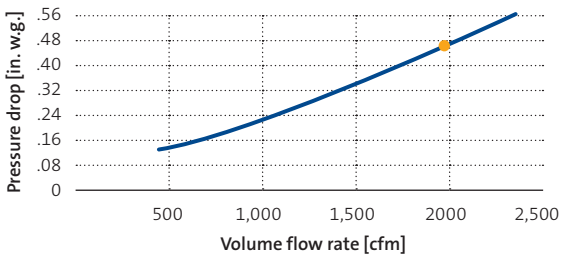

## MVP85

- Fine synthetic filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, and industrial paint spray booths*
- High turbulence/high humidity environments
- Fully potted construction
- LEED occupied building minimum filtration
- **MERV Rating 13**




## MVP95/MVPFR95 (UL 900 CLASS 1)

- Ultrafine synthetic filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, and industrial paint spray booths*
- High turbulence/high humidity environments
- Fully potted construction
- UL 900 Class 1
- **MERV Rating 15**

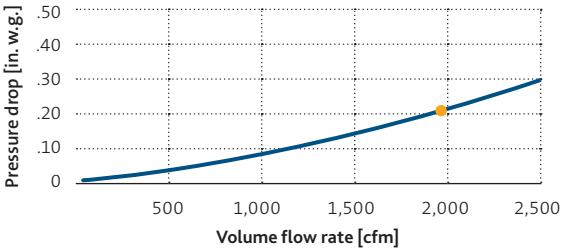



| GEOMETRIES AVAILABLE | | MVP75 | MVP85 | MVP95 | MVPFR95 |
|---|---|---|---|---|---|
| Nominal Volume Flow Rate | cfm | 1968 | | | |
| Initial Pressure Drop | "w.g. | .28 | .28 | .46 | .46 |
| Thermal Stability | °F | 160° Peaks@175° | | | |
| Final Pressure Drop | "w.g. | 1.50 | | | |
| MERV @1968 | 1-16 | 12 | 13 | 15 | 15 |
| ASHRAE 52.1 Equivalent Efficiency* | % | 70-75% | 80-90% | >95% | >95% |
| UL 900 Classification | | Class 2 | | | Class 1 |
| Burst Strength | "w.g. | >12 | | | |

# HIGH EFFICIENCY EXTENDED SURFACE V-STYLE FILTERS

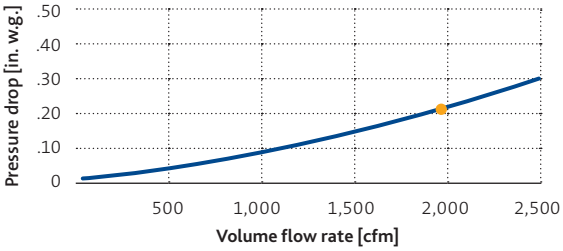
## MV75

- Fine synthetic filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, gas turbine prefiltration, and industrial paint spray booths*
- High turbulence/high humidity environments
- Fully potted construction
- Patented 1" Recess
- **MERV Rating 12**



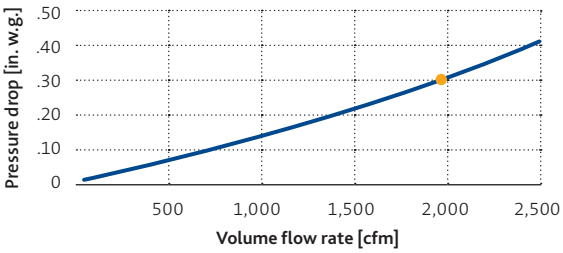

## MV85

- Fine synthetic filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, gas turbines, and industrial paint spray booths*
- High turbulence/high humidity environments
- Fully potted construction
- Patented 1" Recess
- LEED occupied building minimum filtration
- **MERV Rating 13**




## MV95/MVFR95

- Ultrafine synthetic filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, gas turbine fine filtration, and industrial paint spray booths*
- High turbulence/high humidity environments
- Fully potted construction
- Patented 1" Recess
- **MERV Rating 16**

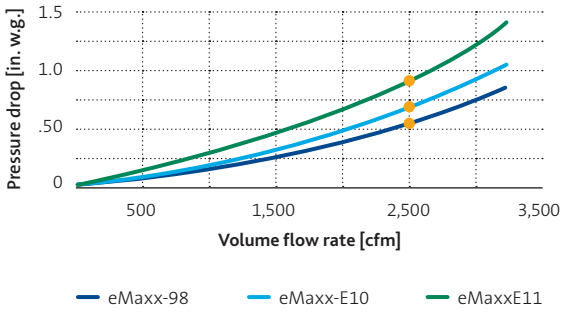



| GEOMETRIES AVAILABLE | | MV75 | MV85 | MV95 | MVFR95 |
|---|---|---|---|---|---|
| Nominal Volume Flow Rate | cfm | 1968 | | | |
| Initial Pressure Drop | "w.g. | .21 | .23 | .31 | .31 |
| Thermal Stability | °F | 160° Peaks@175° | | | |
| Final Pressure Drop | "w.g. | 1.50 | | | |
| MERV @1968 | 1-16 | 12 | 13 | 16 | 16 |
| ASHRAE 52.1 Equivalent Efficiency* | % | 70-75% | 80-90% | >95% | >95% |
| UL 900 Classification | | Class 2 | | | Class 1 |

# HIGH EFFICIENCY EXTENDED SURFACE V-STYLE FILTERS

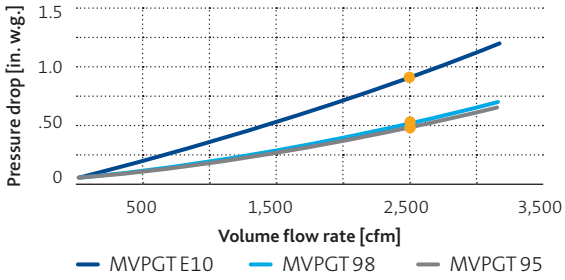
## EMAXX

- Powerful, efficient, economic
  *Gas turbines and compressors*
  *Ventilation systems*
- Media is high strength micro-glassfiber paper with hydrophobic coating
- Non-corroding, fully incinerable
- High dust holding capacity
- High burst strength
- **MERV Rating 16**




## MVPGT

- Heavy duty, high efficiency
  *Designed to protect gas turbines and compressors*
- Low Pressure drop
- Extended media surface allows for longer lifetime
- Moisture resistant
- Seamless foam-in-place gasket
- Non-corroding and fully incinerable
- **MERV Rating 14-16**

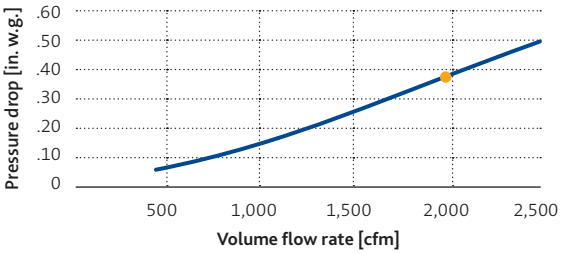



| GEOMETRIES AVAILABLE | | EMAXX | | | MVPGT | | |
|---|---|---|---|---|---|---|---|
| | | 98 | E10 | E11 | 95 | 98 | E10 |
| Nominal Volume Flow Rate | cfm | 2,500 | | | | | |
| Initial Pressure Drop | "w.g. | .54 | .68 | .94 | .51 | .54 | .92 |
| Thermal Stability | °F | 158° | | | | | |
| Final Pressure Drop | "w.g. | 2.4 | | | | | |
| MERV @2,500 | 1-16 | 16 | | | 14 | 15 | 16 |
| ASHRAE 52.1 Equivalent Efficiency* | % | ≥ 97 | | | ≥ 90-95% | | |

# HIGH EFFICIENCY COMPACT AND RIGID FILTERS

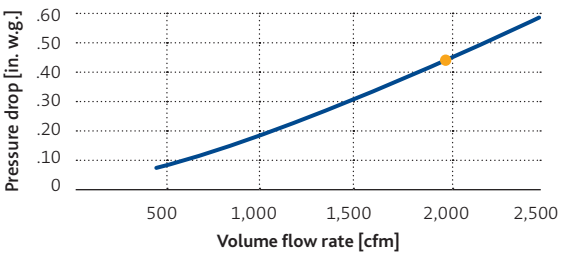
## MX95

- Ultrafine filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, gas turbine fine filtration, and industrial paint spray booths*
- Prefiltration for HEPA and ULPA filters
- VOC abatement systems
- Single header, Double header and Box Style available
- **MERV Rating 14**



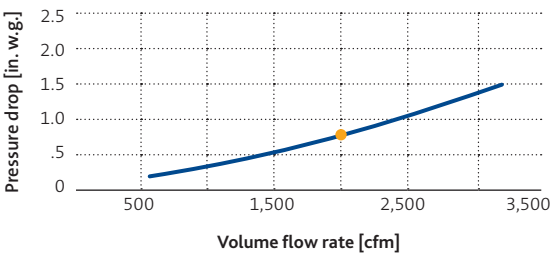

## MX98

- Ultrafine filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, gas turbine fine filtration, and industrial paint spray booths*
- Prefiltration for HEPA and ULPA filters
- VOC abatement systems
- Single header, Double header and Box Style available
- **MERV Rating 15**




## MX100

- Ultrafine filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, electronics, gas turbine fine filtration, and industrial paint spray booths*
- Prefiltration for HEPA and ULPA filters
- VOC abatement systems
- Single header, Double header and Box style available
- **MERV Rating 16**

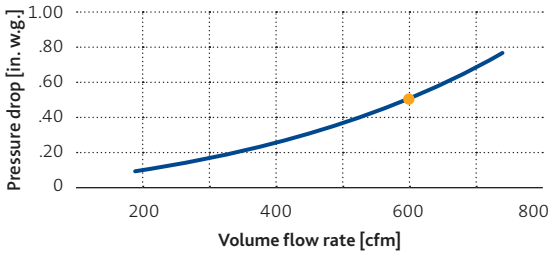



| GEOMETRIES AVAILABLE | | MV75 | MV85 | MV95 |
|---|---|---|---|---|
| Nominal Volume Flow Rate | cfm | | 1968 | |
| Initial Pressure Drop | "w.g. | .37 | .44 | .96 |
| Thermal Stability | °F | | 160° Peaks@175° | |
| Final Pressure Drop | "w.g. | | 1.50 | |
| MERV @1968 | 1-16 | 14 | 15 | 16 |
| ASHRAE 52.1 Equivalent Efficiency* | % | 80-90% | >95% | >99% |
| Burst Strength | "w.g. | | >10 | |

# DEPTH LOADING CARTRIDGE FILTERS

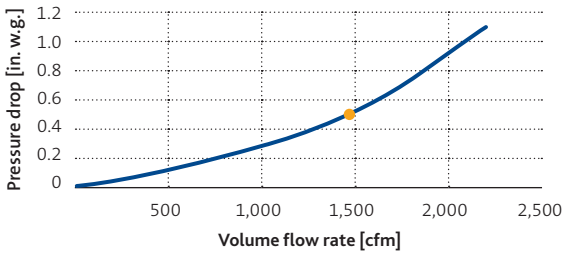
## TFP 90

- Designed for use in supply air systems for gas turbines and compressors
- Provides favorable pressure drops over maximized useful lifetime
- Achieves an optimum ratio between filtering area, pleat depth and number of pleats
- TFP 90 exceeds 25" w.g. in the 72 hour wet breech test
- **TFP 90 IS NOT DESIGNED FOR PULSING.**
- **MERV Rating 16**



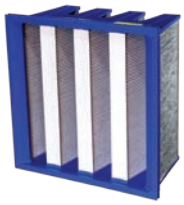

## GTS

- Designed for use in supply air systems for gas turbines and compressors
- Higher turbine efficiency and output
- Reduced maintenance costs and improved machine availability
- Extended media surface allows for longer filter lifetime
- Superior moisture resistance
- High burst strength
- **MERV Rating 14**



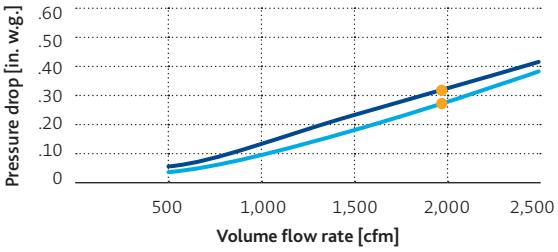

| GEOMETRIES AVAILABLE | | TFP 90 | GTS |
|---|---|---|---|
| Nominal Volume Flow Rate | cfm | 600 | 1,470 |
| Initial Pressure Drop | "w.g. | .50 | .52 |
| Thermal Stability | °F | 160° Peaks@175° | 158° |
| Final Pressure Drop | "w.g. | 3.2 | 3.2 |
| MERV @1968 | 1-16 | 16 | 14 |
| ASHRAE 52.1 Equivalent Efficiency* | % | >95% | 98% |
| Burst Strength | "w.g. | 25 | — |
| Corrosion Resistant | | No | — |
| Torque Recommendations | ft/lbs | 4 | — |

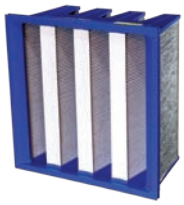
# HIGH EFFICIENCY EXTENDED SURFACE CARBON FILTERS



## CARBOPLEAT

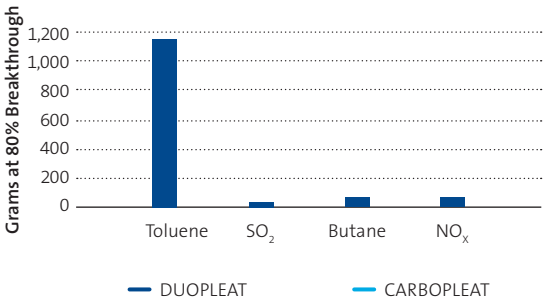
- Odor elimination for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals and electronics*
- High humidity prefiltration
- General prefiltration
- **MERV Rating 8**

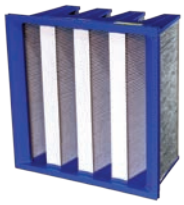


## DUOPLEAT

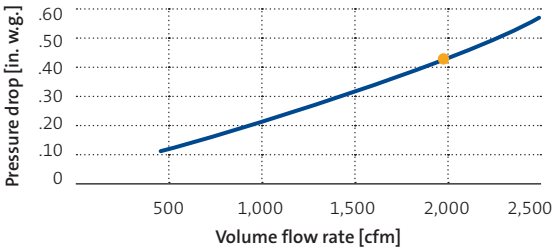
- Ultrafine odor filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals and electronics*
- Eliminate pollutant gases, unwanted odors
- Activated-carbon media
- **MERV Rating 15**

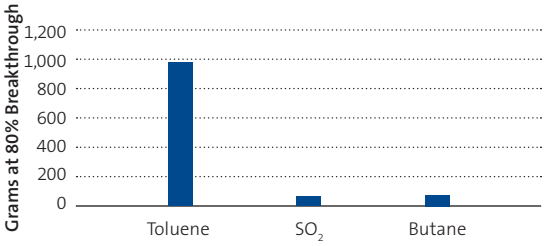


## DPX95

- Ultrafine odor filtration for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals, and electronics*
- Eliminate pollutant gases, unwanted odors
- Activated-carbon media
- **MERV Rating 14**



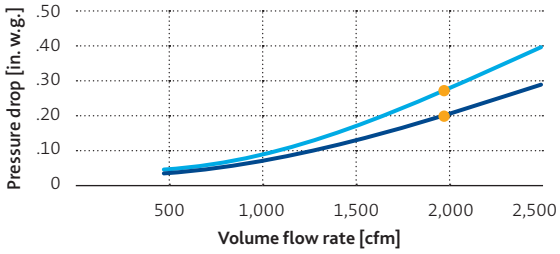



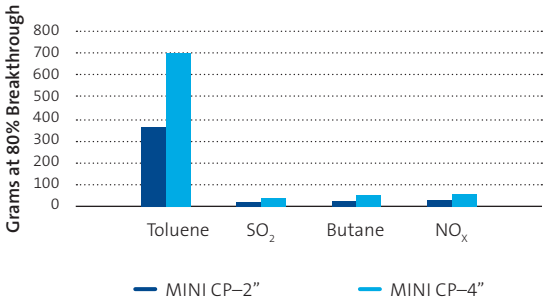

| GEOMETRIES AVAILABLE | | CARBOPLEAT | DUOPLEAT | DPX95 | MINI CP 2" | MINI CP 4" |
|---|---|---|---|---|---|---|
| Nominal Volume Flow Rate | cfm | 1,968 | | | | |
| Initial Pressure Drop | "w.g. | .28 | .32 | .43 | .20 | .35 |
| Thermal Stability | °F | 160° | | | | |
| Final Pressure Drop | "w.g. | 1.50 | | | | |
| MERV @1968 | 1-16 | 8 | 15 | 14 | 7 | 7 |
| ASHRAE 52.1 Equivalent Efficiency* | % | 30-35% | >95% | — | 25-30% | 25-30% |

# HIGH EFFICIENCY EXTENDED SURFACE CARBON FILTERS

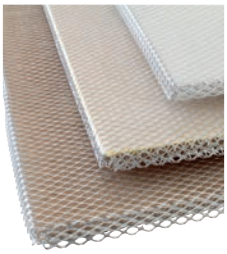
## MINI CP

- Odor elimination for HVAC systems
  *Hospitals, airports, office buildings, pharmaceuticals and electronics*
- High humidity prefiltration
- General prefiltration
- **MERV Rating 7**



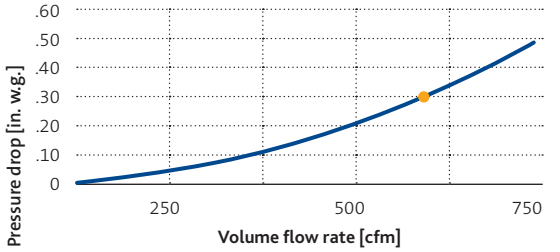




# HIGH TEMPERATURE FILTERS



## LH1000

- High temperature filtration of recirculated air in curing ovens
- Glass fiber media enclosed in expanded metal protection grid
- Two-stage filtration
- High-humidity applications
- 30 per carton




| GEOMETRIES AVAILABLE | | MV75 |
|---|---|---|
| Nominal Volume Flow Rate | cfm | 600 |
| Initial Pressure Drop | "w.g. | .30 |
| Thermal Stability | °F | 575° |
| Final Pressure Drop | "w.g. | 1 |
| Weight | oz. | 10 |
| Depth | in | .55 |

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Editorial Information

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