"Don't exhaust polluted air, refurbish it" with NEW collection systems from

A.E.R. Refurbished Systems

MV-3000 thru 12000 & Larger Series Collectors by A.E.R. Refurbished Systems

MV-3000 thru 12000 & Larger Series

Contaminants:
Primary:
Mist, mist and smoke, can be configured for moist, sticky or dry contaminants
Other:
Dust (wet or dry/sticky), Fume, Smoke and Gas/Vapor in individual or combined forms

Capture Approach: Source Capture

Unit Mounting: Vertical, ceiling hung, floor stand or machine mounted

MVW Units house a 4" Chevron Impinger, 1" Aluminum Mesh and 36" Vee Bag filter

Applications:
Machining, turning, grinding, boring, milling, forming, casting, mixing, molding, pouring, spraying, bonding, and a variety of other manufacturing and process applications.

General Design, M Series Collectors:
Designed specifically for wet applications, the M Series line of Media Filter collectors provide cost effective and efficient control of mist, dust, fume, smoke and gas/vapor contaminants as individual or as more complex combined forms. A number of design specific features are incorporated in these systems to improve cabinet sealing and enhance system performance with reduced unit maintenance on wet applications. Using modular design, units 18,000 CFM, 24,000 CFM and larger are available.

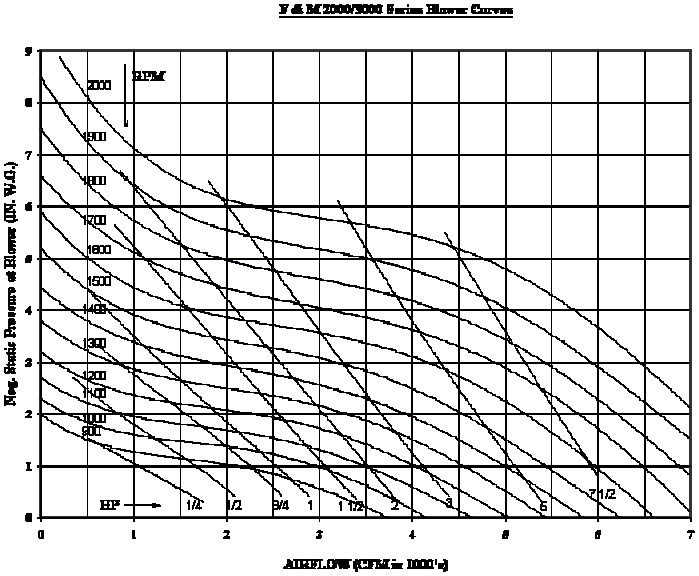
MV 3000 – 12000 & Larger Series Collectors

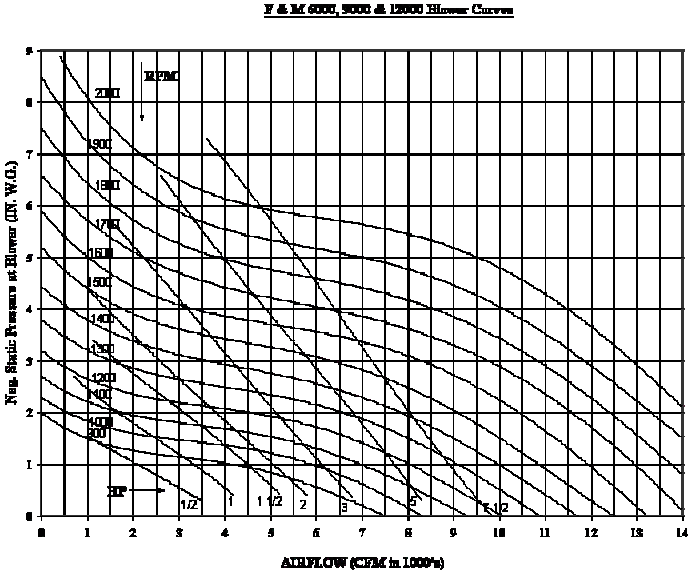
A.E.R. Refurbished Systems MV-3000 thru 12000 and larger Series Vertical Media Collection systems are designed to provide efficient, cost effective control of mist, dust, smoke, fume and gas/vapor contaminants generated from a variety of manufacturing and process applications.

A variety of mounting options are available for this flexible and diverse collection system. Units can be ceiling hung, floor mounted or mounted directly on the machine requiring collection. A full line of accessories and options are available to simplify installation.

The MV Series modular design provides the ultimate in unit filtration flexibility or adaptability enabling them to handle a variety of airborne contaminants. Modular design allows for simple integration of additional filter modules allowing the collectors filter stages to be easily customized to meet the exact filtration requirements of the application. Should contaminants change due to process changes, filter modules can be easily added and/or existing ones altered to adapt to the changing conditions.

Technical Product Data Sheet





Features and Benefits

Vertical Mounting
Vertical mounting improves filter drainage and helps wash or drop solids out of the filters improving filter life.

Plenum
Large inlet plenum reduces inlet velocity, alters and distributes inlet air allowing more droplets to fall out of the air stream and into the plenum reducing loading and maintenance on the filters. Inlet plenum has a trepanned, sloped bottom to provide better drainage and removal of solid particles and includes a large, leak resistant drain fitting (for drain hose kit, drain bottle or hard piping). The collector housing fits into the panned plenum mounting flange eliminating potential leak points through fasteners or insufficiently caulked mounting flanges

Doors
Large, pin hinged access doors with ergonomic, easy to use compression latches for leak tight sealing, provide quick, easy access to filters or components. Hinged doors prevent damage or injury from tripping over or falling removable panels and are easily removed if required. Doors edges are formed to provide rigidity and act as gutter on the bottom, internal door surface. As liquids can accumulate on certain internal door surfaces (condensation or impingement), the gutter prevents liquids from dripping onto the floor or surfaces below when the doors are opened for service.

Aerospace gaskets
Door seals are high quality, mechanically fastened, tube type, EPDM, triple seal aerospace gaskets to provided optimum sealing against liquids. The gasket design is solid with a hollow inner core, it is nonporous, will not take a "set" when compressed over time and creates three (3) sealing surfaces for maximum leak resistance. Gaskets are clip-on, mechanically fastened to the cabinets making them extremely easy to replace. The gasket is resistant to a wide variety of chemicals and eliminates the problems associated with foams, and adhesive applied or backed gaskets.

Improved, heavier gage filter bag support
Heavier gage, sliding support rods reduce damage and allow filters to be installed from outside of the cabinet. Locking tabs are provided which ease installation and help maintain even filter spacing for full utilization of filter media and for optimum performance and filter life.

Internal, recessed filter housing with improved filter sealing
The recessed, internal filter housing design improves drop out of larger contaminants, improves drainage of fluids and provides optimum utilization of the filter media for improved unit performance and reduced maintenance. The design also keeps liquids away from the large filter access door for cleaner, safer unit maintenance.

Optimum flexibility is provided by the removable filter sealing frame and prefilter tracks, which allow for a variety of standard or custom filter configurations now, or later in the field should processes and contaminants generated change. Improved final stage filter sealing is provided by the removable and/or replaceable, face seal, filter sealing frame. The design eliminates filter bypass and leakage problems found on competitive units. Alternate frame designs can be provided for unique, final stage filter configurations.

High performance belt drive blower
Standard units are equipped with high performance, belt drive blowers with adjustable sheave allowing fan RPM and performance to be tailored to the individual application requirements. Aerospace gaskets are provided at the blower exhaust to seal it against the blower outlet plate reducing vibration, entrainment and air leakage into the blower cabinet. Sealing the blower outlet also improves capture efficiency, provides higher performance at the inlet to the collector and lowers the unit operating costs.

Custom direct drive and belt drive blowers
Custom engineered, direct drive and belt drive motor and blower packages designed to meet special or specific, airflow, pressure or service/location requirements are available upon request.

Magnehelic Gage
Standard units include a Magnehelic gage with a range of 0 to 5" W.G. for monitoring filter life and determining when filter replacement or cleaning is required.

Custom Filter Stages
In addition to the standard filter arrangements, the tremendous flexibility of these systems allows for easy customization of the filters to meet the exact needs of the application. A large variety of custom, filters are available to meet unique system requirements.

Technical Product Data Sheet

Standard MVW-3000 Unit on optional floor stand.

Standard MVW-3000 Unit

MVWH-3000 with HEPA module.

Standard MVW/MVD-6000

Standard MVW/MVD-9000

Standard MVW/MVD-12000

Model/Unit (note 1-3)	**Max. Airflow** (note 5)	**Motor**	**Weight (no stand)**	**Aprox. Dim (on floor stand)**
MVW/MVD-3000	3000	2/3 HP	340 lbs.	34" x 27" x 114"
MVW/MVD-6000	6000	3/5HP	620 lbs.	63" x 27" x 120"
MVW/MVD-9000	9000	5/7.5HP	754 lbs.	93" x 27" x 120"
MVW/MVD-12000	12000	7.5	1245 lbs.	63" x 54" x 120"
MVWH/MVDH-3000	1200-2000 (note 4)	2/3 HP	458 lbs.	34" x 27" x 131"
MVWH/MVDH-6000	2400-4000 (note 4)	3/5HP	830 lbs.	63" x 27" x 137"
MVWH/MVDH-9000	3600-6000 (note 4)	5/7.5HP	1072 lbs.	93" x 27" x 137"
MVWH/MVDH-12000	4800-8000 (note 4)	7.5	1665 lbs.	63" x 54" x 137"

Notes:

1. MVW filter stages - 4" Aluminum Chevron Impinger, 1" Aluminum Mesh and 36" 10 pocket, industrial grade 95% Vee Bag
2. MVW filter stages - 1" Fiberglass prefilter, 4" Pleated Multivee filter and 36" 10 pocket, industrial grade 95% Vee Bag
3. MVWH and MVDH filter stages – same as above with the addition of the HEPA module with std. HEPA (99.97% @ 0.3 microns)
4. Low HEPA airflow based on standard filter, high airflow range requires the optional high airflow HEPA filter
5. Suggested operating airflow dependent upon application, derating may be required consult Applications Engineering for assistance

Additional Options:

- ❖ High airflow HEPA filters
- ❖ Refillable gas/vapor modules (carbon, permanganate & CPZ)
- ❖ Additional prefilter modules for wet, sticky or dry contaminants
- ❖ Custom, direct and belt drive blower/motor packages
- ❖ 575 Volt and other special motors available
- ❖ Floor mounting stands, mounting & installation kits
- ❖ Custom units, special filter configurations & OEM units available

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