

*"Don't exhaust polluted air, refurbish it"
with NEW collection systems from
A.E.R. Refurbished Systems*



*MV-1000 Series Collectors
by
A.E.R. Refurbished Systems*

MV-1000 Series

Contaminants:

Primary:

Mist, Mist and Smoke, can be configured for moist, sticky or dry contaminants

Other:

Dust (dry, sticky or wet/swarf), Smoke, Fume and Gas/Vapor in individual or combined forms

Capture Approach: Source Capture

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

Applications:

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

General Design, MV Series Collectors:

Designed specifically for wet applications, the MV 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.



Custom MVDCI-10-20XP Unit with dry filters, carbon module and explosion proof motor.

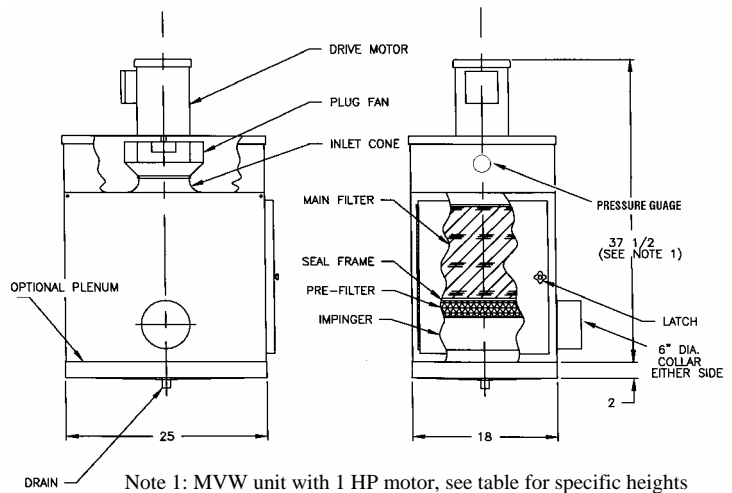
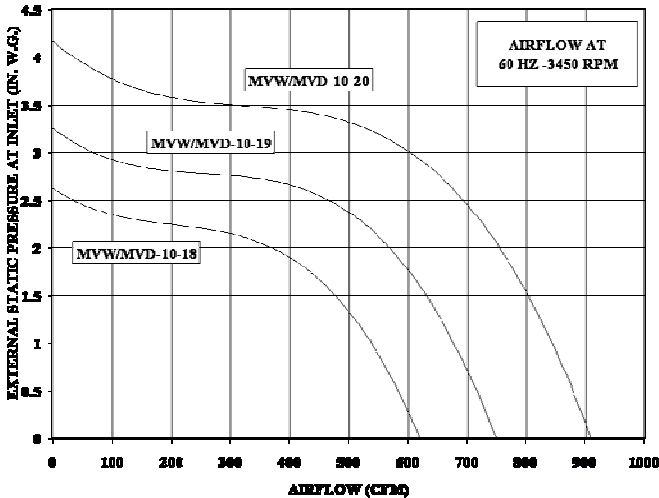
MV 1000 Series Collectors

A.E.R. Refurbished Systems MV-1000 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 small but powerful, compact 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 the installation.

As with our larger Media Collection Systems, the MV-1000 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

MVW/MVD-10 SERIES FAN PERFORMANCE CURVE AT 60 HZ



Features and Benefits

Vertical Mounting

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

Plenum

Internal space saving inlet plenum reduces unit size, 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. The short inlet plenum base 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.

Aerospace gaskets

Door seals are high quality, mechanically fastened, tube type, EPDM, triple seal aerospace gaskets to provide 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.

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 if 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.

Direct drive blowers

Standard direct drive blowers (plug fans) utilize composite, backward curved, airfoil blade fans and mating inlet cones and are designed to provide efficient, quiet, fan performance while meeting the specific systems airflow and pressure requirements. Custom blower packages designed to meet special, airflow, pressure or location requirements are available upon request.

Minihelic Gage

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

Final Filters, XE, XP & other

Standard units are equipped with XE high loft fiberglass type filters, XP paper type (more suitable for certain applications) and other filters are available.

Model / Unit	Filter Area, XE / XP	Motor	Weight (lbs.)	Sound	Approximate Dim.
MVW/MVD-10-18	28 / 70 square feet	½ HP	113	67 dbA @ 3'	18" x 25" x 41"
MVW/MVD-10-19	28 / 70 square feet	½ HP	113	72 dbA @ 3'	18" x 25" x 41"
MVW/MVD-10-20	28 / 70 square feet	1 HP	119	75 dbA @ 3'	18" x 25" x 41"
MVWH/MVDH-10-20 unit with HEPA filter module	28 / 70 square feet	1 HP	177	73 dbA @ 3'	18" x 25" x 57"

Additional Options:

- ❖ HEPA Module rated at 99.97% efficiency at 0.3 microns
- ❖ Refillable gas/vapor modules (carbon, permanganate & CPZ)
- ❖ Additional prefilter modules for wet, sticky or dry contaminants
- ❖ Floor mounting leg kit
- ❖ Single phase, 575 Volt and other special motors available
- ❖ Portable caster kits
- ❖ Custom units, special filter configurations & OEM units available

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"We sell the best and service the rest"