

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



*MC-500 & 1200 Series Collectors
by
A.E.R. Refurbished Systems*

MC-500 & 1200 Series

Contaminants:

Primary:

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

Other:

Wet Dust/Swarf, Smoke & Fume in individual or combined forms

Capture Approach: Source Capture

Unit Mounting: Vertical, machine mounted, ceiling hung (floor stand on 1200)

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, MC Series Collectors:

Designed primarily for machine mounted or ceiling hung wet applications, the MC Series line of Media Filter, Compact collectors provide cost effective and efficient control of mist and wet dust/swarf contaminants in a compact, economical, easy to install system. Additional features and options were incorporated into the 1200 series units that allow them to handle mist, dust, fume and smoke contaminants as individual or as more complex combined forms and also feature a floor mounting option. The MC series units feature the same industrial grade filters, blowers and motors used in our other systems but housed in a smaller, Compact, economical unit.



*MC-500 unit
machine
mounted
installation on
Mori Seiki TL-1
CNC machine*

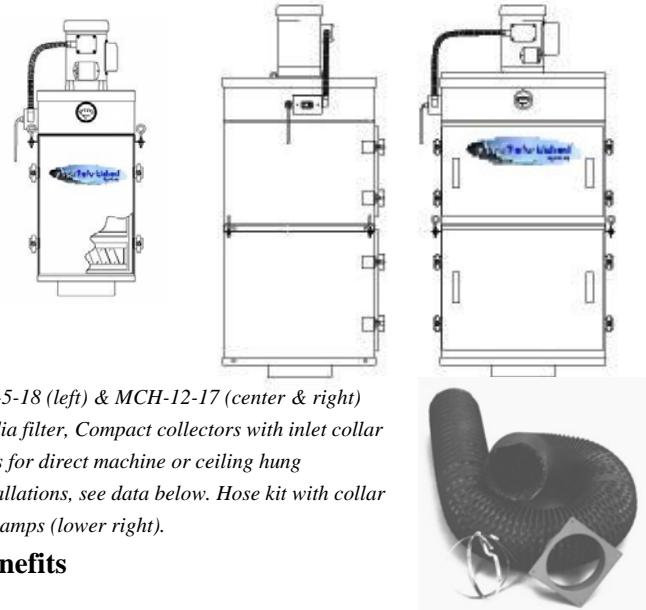
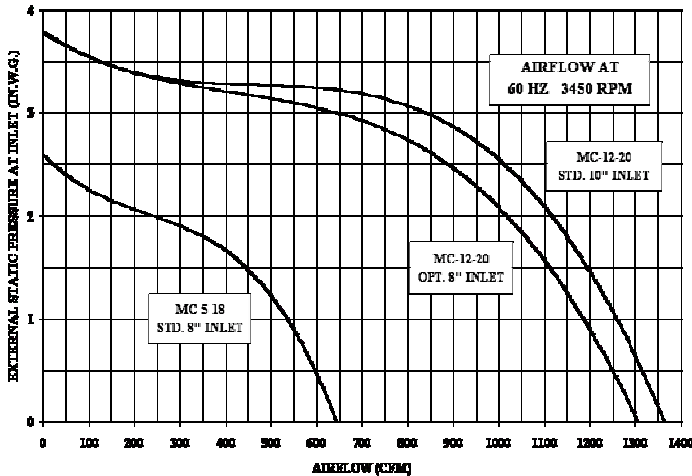
MC-500 & 1200 Series Collectors

A.E.R. Refurbished Systems MC-500 Series Compact Media Collection systems are designed to provide efficient, cost effective control of mist and wet dust/swarf contaminants generated from a variety of manufacturing and process applications. Direct machine mounted and ceiling hung mounting options are available for this small but powerful, compact collection system.

A.E.R. Refurbished Systems MC-1200 Series Compact Media Collection system is similar to the above 500 unit in a larger, higher airflow package. The 1200 unit also features some additional options such as filters for moist, sticky or dry contaminants, a HEPA module for smoke/fume contaminants, upgraded motor and blower (standard on Model MCH-1200), inlet plenum and a floor mounting option. A full line of accessories and options are available for the MC series collectors to allow for easy unit customization and to simplify system installation.

Technical Product Data Sheet

MC-518 & MCH-12-17 PERFORMANCE CURVE AT 60 HZ



MC-5-18 (left) & MCH-12-17 (center & right) Media filter, Compact collectors with inlet collar pans for direct machine or ceiling hung installations, see data below. Hose kit with collar & clamps (lower right).

Features and Benefits

Compact Size

Compact, but powerful and efficient, collection systems that take up a minimum of space. Designed for direct machine mounting and ceiling hung installations above the machine requiring collection.

Quick, Simple Installation

The standard inlet pan with collar allows for either direct machine mounting or ceiling hung unit installation. Simply cut a inlet hole in the machine, mount the inlet pan with collar and bolt the unit to the pan. If ceiling mounted add our quick hose kit with collar, mount the collar to the machine, cut hose to length, and clamp in place. Motor is accessible and easily wired into the machine or a separate motor starter. Pre-wired, single-phase units with on-off switch are available, simply plug the unit in and go. Depending on installation, system can be running in as little as 30 minutes!

Vertical Mounting

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

Inlet Pan with Collar

The space saving inlet pan and collar reduces unit size and eliminates the need for separate drain lines. Inlet collar sizes are designed for lower air velocity and to allow collected fluids to drain from the system thru the collar or inlet hose. The collector housing fits into and side bolts to the inlet pan for quick installation and eliminates potential leak points through fasteners or insufficiently caulked mounting flanges.

Doors

Large access doors with four-point compression provide leak resistance and quick, easy access to filters or components.

Door Gaskets & Filter Sealing

Door seals are high quality, chemical resistant, minimum memory, compression foam held captive in tracks to prevent shift or slide during compression. Improved final stage filter sealing is provided by the removable and/or replaceable, face seal, filter sealing frame. Alternate frame designs can be provided for unique, final stage filter configurations. The design eliminates and reduces gasket/sealing, filter bypass and leakage problems found in competitive units.

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	Motor	Weight (lbs.)	Sound	Approximate Dim.
MC-5-18	23 square feet	½ HP	95	72 dbA @ 3'	18" x 21" x 38"
MC-12-20	58 square feet	1 HP	165	75 dbA @ 3'	28" x 25" x 42"
MC-12-20 with inlet plenum and floor stand	58 square feet	1 HP	200	75 dbA @ 3'	28" x 25" x 68"
MCH-12-17 unit with HEPA	58 square feet	1½ HP	283	75 dbA @ 3'	28" x 25" x 59"
MCH-12-17 with HEPA, inlet plenum and floor stand	58 square feet	1½ HP	318	75 dbA @ 3'	28" x 25" x 85"

Additional Options:

- ❖ Prefilters for sticky, dry or unique contaminants (MC-1200 series)
- ❖ HEPA Module rated at 99.97% efficiency at 0.3 microns (MCH-1200 models)
- ❖ Inlet plenum with collar and drain (MC-1200 series)
- ❖ Floor mounting leg kit & portable caster kits(MC-1200 series)
- ❖ Single phase, 575 Volt, 50 Hz. and other special motors available
- ❖ Derated airflow and higher performance blower packages available
- ❖ Custom units, special filter configurations & OEM units available

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"We sell the best and service the rest"