

Dust Collectors



Unique Design & Engineering
Approaches for Dust Collection
and Pneumatic Conveying



CAMCORP Inc.

Established in 1993, **CAMCORP** is a clean air management company specializing in creating unique design and engineering approaches for industrial applications. The firm has a full array of technical, engineering, construction and aftermarket services for virtually every application need. Company experts have the experience in the latest filtration and pneumatic conveying technologies, and have engineered unique solutions for a wide range of industrial situations.

CAMCORP has a full line of dust collectors to meet your industrial requirements of which our design team will help select and size the correct model to meet your application. When it comes to selecting equipment to manage air quality, you need a number of alternatives that can achieve the desired result. Our air filtration systems can be designed to meet the dust collection needs of most any situation. Over the years we've repeatedly been challenged by our customers to solve impossible situations. With our years of experience and state-of-the-art capabilities, we can meet your needs. Our structural designs meet the specific technical requirements of the application, but we go the extra mile. We offer several standard features and options that are high-cost options or simply unavailable from other suppliers.



Pulse-Jet Dust Collectors



CAMCORP's pulse-jet collectors are available in side bag access or top bag access through lift-off doors or a walk-in clean air plenum and are available with all of the accessories to meet the requirements of your application, such as:

- Correct selection of filter media to meet the application requirements
- Explosion venting per NFPA 68
- Paint selected for the application
- NEMA4, 4X, 7, 9 or 12 Electrical Enclosures
- Structural supports engineered for location
- High vacuum or pressure design
- Different inlet designs based on material collected and application
- “On-Demand” cleaning timer board
- Instrumentation for remote monitoring
- OSHA approved service platforms

CAMCORP's qualified sales representatives will help select the right size and configuration dust collector for your application.



Reverse Air Dust Collectors

CAMCORP offers two style of reverse air collectors. The HVP (High Volume Pulse) collectors utilize a rotary lobe blower as the cleaning energy to pulse the bags clean. The SWF (Sweep Arm Filter) utilizes a high static fan to clean the bags. Both have a rotating arm within the clean air plenum to deliver the cleaning air.

The cleaning fan on the SWF unit can be mounted internally or external to the clean air plenum. The drive components for the rotating arm can be located internally or external to the clean air plenum for either the HVP or the SWF styles.

Units over 14' diameter can be panelized for field erection.



Vertical Cartridge Collectors



CAMCORP's CAM-AIRO™ is uniquely engineered to solve nearly all dry dust and fume collection challenges. The vertical design of the **CAM-AIRO™** cartridge collector optimizes virtually 100% of the filter media area, unlike horizontal designs that can sacrifice nearly 30% of the filter media area over time.

The **CAM-AIRO™** is fabricated in welded sub-assemblies, flanged and externally reinforced. A significant departure from competing modular designs that are internally reinforced resulting in excessive and problematic horizontal ledges that can obstruct airflow, retain dust and cause bridging.

Cartridges are conveniently accessed from outside the collector through hinged side-access doors.

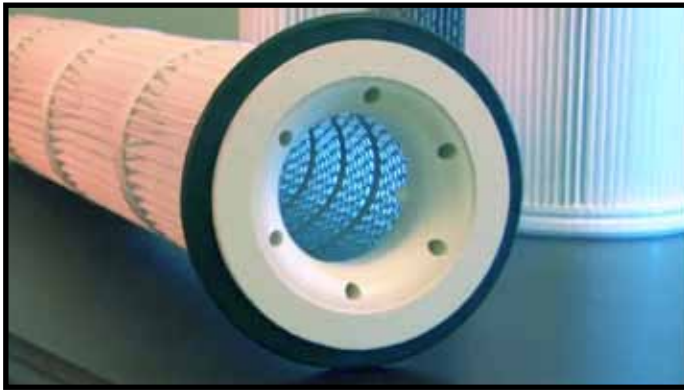




Pleated Element Dust Collectors

CAMCORP's pleated elements can be used for most applications where typical baghouse collectors are specified. One advantage of this style collector is the lower headroom requirements and higher efficiencies than standard baghouse dust collectors. Pleated elements are available in both top load and bottom/side load configurations. Pleated elements are available in 100% Spun bonded polyester, PTFE laminated spun bonded polyester, food grade and high temperature. All of the same features and options are available in our line of pleated element dust collectors as is offered in our standard pulse-jet baghouse dust collection line of products.

CAMCORP's qualified sales representatives will help select the right size and configuration pleated element dust collector for your application.



Filter/Receiver Dust Collectors



Filter/Receivers are used at the end of a pneumatic conveying system. Filter/Receivers can utilize either traditional bags or pleated elements and are also available in top or side/bottom access configurations. Filter/Receivers are used in either pressure or vacuum conveying applications. **CAMCORP** qualified sales representatives will design the filter/receiver for that application.

Typically filter/receivers will have a higher dust loading than dust collection systems and a lower air to cloth ratio is selected when sizing a filter/receiver. **CAMCORP** will select the correct air to cloth ratio for the filter/receiver for your application as well as the proper inlet configuration.



CAMCORP can supply the ancillary equipment for the filter/receiver as well, including:

- Rotary airlocks
- Butterfly valves
- Double dump valves
- Hopper vibrators
- Hopper impactors
- Hopper aeration pads
- Hopper heaters
- Vibratory bin dischargers
- Insulation
- Conveying diverter valves
- Gravity diverter
- Broken bag detectors
- Tubing, pipe, elbows, couplings
- Instrumentation



CAMCORP *Medium Pressure Dust Collectors*

No compressed air?...No problem. **CAMCORP's** medium pressure pulse-jet dust collectors operate in the same manner as our traditional pulse-jet dust collectors, however, instead of using plant compressed air to clean the bags we use air compressed by means of a rotary lobe blower. The diaphragm valves on the dust collector are designed to allow more cleaning air at the lower pressure to clean the bags or pleated elements. **CAMCORP** supplies the rotary lobe blower package along with the dust collectors we supply. The blower package includes a pressure relief valve so as to not over-pressurize the compressed air header, a motor with belts, sheaves and OSHA guard, mounting base, discharge silencer and inlet filter. When properly sized, one blower package can be used for several dust collectors. **CAMCORP** offers the same features and options on our medium pressure pulse-jet dust collectors as our traditional pulse-jet dust collectors.



Bin Vent Dust Collectors



CAMCORP's bin vent filters are available in all of our different style collectors offered, however, they do not typically incorporate a hopper. They are designed to mount directly onto a piece of equipment that needs venting such as storage silos, mixers, scale hoppers, work bins, belt conveyors, etc.

CAMCORP's bin vent filters have all of the features and benefits as all of our other dust collectors including:

- Correct selection of filter media to meet the application requirements
- NEMA 4, 4X, 7, 9 or 12 Electrical Enclosures
- Explosion Venting per NFPA 68
- Paint selected for the application
- "On-Demand" cleaning timer board
- Instrumentation for remote monitoring
- OSHA approved service platforms





Cyclone Dust Collectors

Cyclones are less efficient than baghouse or pleated element dust collectors, however, cyclones do still have a place in the air pollution control industry either as a stand alone collector on larger particulate applications or as a primary separator prior to a baghouse.

CAMCORP offers 3 different series of cyclones. The HE series which is our high efficiency cyclone. The SE series, our standard efficiency cyclone and the HV series which is our high volume cyclone.

CAMCORP's cyclones are available in carbon steel, stainless steel, aluminum and abrasion resistant steel construction. On food grade applications grinding and polishing of the welds is also offered.



Options and Accessories



CAMCORP's dust collectors incorporate many standard design features that other's manufacturer's consider to be a premium such as ledgeless door design and tool-less access to filters and cartridges as well as rotatable exhaust on our cyclones. **CAMCORP** also has a wide array of options and accessories for our dust collectors.

Options and Accessories

- Filter media options (See below)
- Baffled hopper inlet
- Tangential inlet with internal spin cone
- High entry baffled inlet
- Stone box inlet
- Involute inlet
- Abrasion resistant inlet
- Wide bag spacing
- Explosion venting / suppression
- Explosion proof controls
- Back-draft dampers
- Abort gates
- Spark arrestors
- Sprinkler kits
- Trough and custom hopper design
- Hopper access doors
- Structural supports
- Platforms and ladders
- Internal service lighting
- Quick inspection view ports
- Hopper level indicators
- Live-bottom auger discharge
- Custom paint system and colors
- Bead blasting
- 304 or 316 Stainless steel construction
- Aluminum construction
- 'AR' Plate construction
- Polished welds for food grade applications
- High temperature design
- High pressure design
- High vacuum design
- Screw conveyors
- Rotary Airlocks
- Slide gates / drum cover kits
- Dust bin with drawers
- Fans, dampers and silencers
- Alternative timer / controllers
- Photohelic or Magnehelic gauges
- Motor starter and electrical control panels
- Solenoid heater / thermostats

Filter Media and Cage Options

- Polyester bags
- PTFE Laminated bags
- Polypropylene bags
- Aramid (Nomex) bags
- Nylon pre-filter overbags
- Duo-density bags
- Micro-denier bags
- Acrylic bags
- P-84 bags
- Fiberglass bags
- Grounded bags
- Carbon steel cages
- Galvanized cages
- Stainless steel cages
- 20-Wire cages
- Split cage assembly



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