Blast Cabinet
DUST COLLECTION

Clemco Industries Corp.

ZERO® Blast Cabinets

Solutions to Increase Productivity and Efficiency

Cabinet Dust Collectors

Protect Your Employees *and* Your Environment

Dust Collection Tailored to Your Application

Dust Bags

Dust bags offer an economical method of filtering exhaust air. The most inexpensive form of dust collection, dust bags are used on cabinets equipped with a media reclaimer with powered exhauster. Adding a reclaimer and dust bag to a basic cabinet offers improved visibility and reduces air-borne contaminants. Depending upon the dustiness of the application, dust bags are usually suitable for cabinets used only occasionally and for short blast periods.

Dry Filters

For medium-duty-use cabinets with the exhauster mounted on the reclaimer, Dry Filters capture dust in a series of tubular cloth filters. The exhauster pulls dust-laden air through the reclaimer, pushes it to the Dry Filter, which traps up to 98 percent of dust particles down to 1 micron. Dry Filters work well in many settings— automotive shops, light manufacturing, for artistic engraving, rework, and touch-up. Available in three models: 300-, 600-, and 900-cfm.

Reverse-pulse Dust Collectors

For high-production, aggressive-media applications, nothing outperforms a reverse-pulse cartridge collector. A powerful exhauster motor, mounted on the clean-air side of the dust collector, draws dust-laden air from the cabinet sump through the reclaimer and through reinforced, pleated filter cartridges in the collector. No dust or contaminants ever come into contact with the reclaimer impeller blades, maximizing efficient airflow and reducing maintenance costs.

ZERO cartridge-style collectors trap 99.7 percent of dust particles down to 0.5 micron. All ducting and conveying hoses operate under negative pressure; eliminating dust leaks. With minor adjustment of the damper, the operator can strike the perfect balance of cabinet visibility and media cleaning efficiency. Ten models are available: from 600- to 3600-cfm.

Choose a ZERO Dust Collector to…

- √ upgrade to a cleaner, more efficient system
- √ dramatically improve media cleaning & decrease dust emissions
- √ enhance productivity and operational efficiency

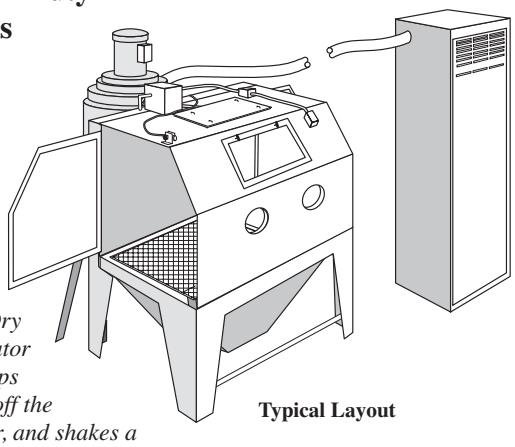
Dust Bags for Occasional-Use Applications

Primarily used in occasional-use industrial settings or other intermittent blast operations and by hobbyists, cloth dust bags trap dust expelled by the cabinet reclaimer. ZERO dust bags are double-wall construction, 100 percent cotton sateen. Zippered clean-out permits quick removal of trapped dust and contaminants. Dust bags must be inspected often for wear and emptied frequently, making them suitable only for occasional blasting and light-duty applications.

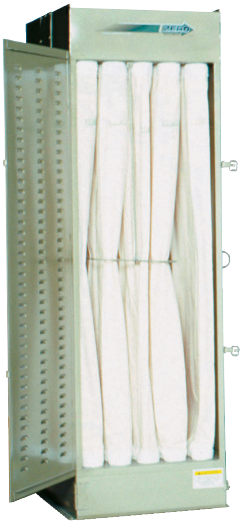
Dust bag for occasional-use mounts on cabinet reclaimer.

Dry Filters for Light - and Medium-Duty Applications

A ZERO Dry Filter contains a set of cotton sateen tubes; the higher the cfm rating, the greater the number of tubes. With a Dry Filter, the operator periodically stops blasting, turns off the exhauster motor, and shakes a handle to knock the dust from the insides of the tubes into a tray at the bottom of the Dry Filter. From time to time, the operator must empty the tray. Manual tube shaking and dust disposal activity relegate the Dry Filter to light- and medium-duty manual blasting applications.



Typical Layout



Dry filter with cotton sateen tubes for medium-duty blast operations.

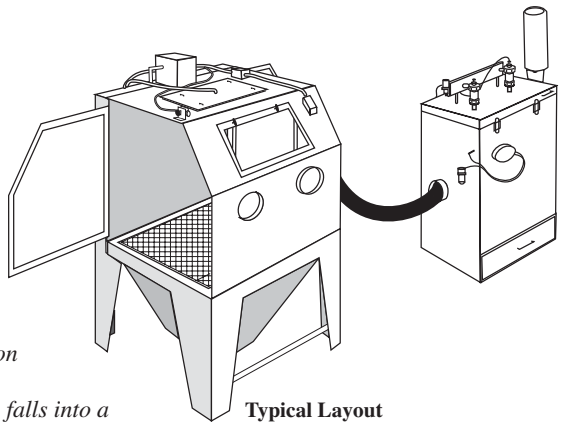
Cabinet Dust Collectors

Reverse-Pulse Cartridge Dust Collectors for High-Production Industrial Applications

Reverse-pulse collectors feature wire-reinforced, pleated-polyester fiber filter cartridges for high production and multi-shift blast operations.

RPC Models

For medium- and high-production applications, a pull-through cartridge-style exhaust system is recommended. ZERO RPC models trap dust in wire-reinforced, pleated polyester-fiber cartridges. A periodic pulse of compressed air reverses the flow of air through the cartridge, knocking off the caked-on dust without interrupting the blast operation. The dust automatically falls into a tray at the bottom of the collector. Two standard RPC-2 dual-cartridge models are available rated 600- or 900-cfm. HEPA filtration is available as an option.



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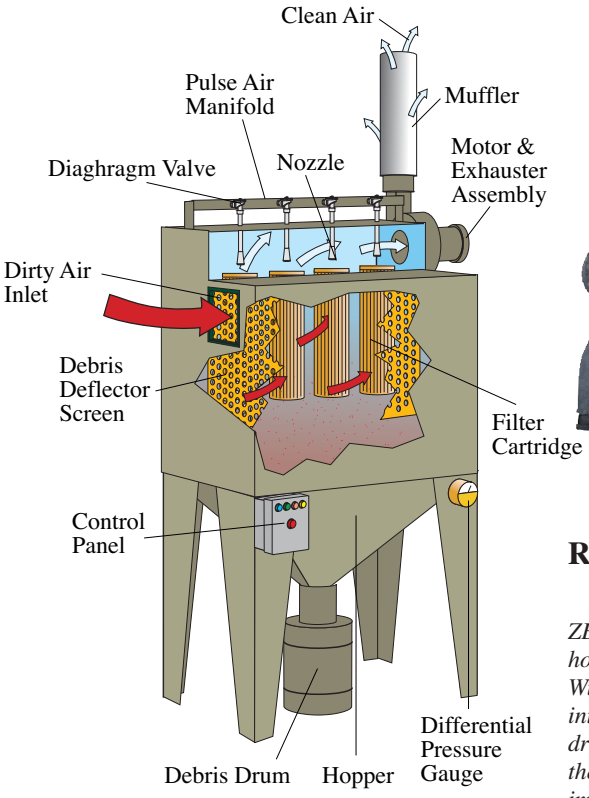

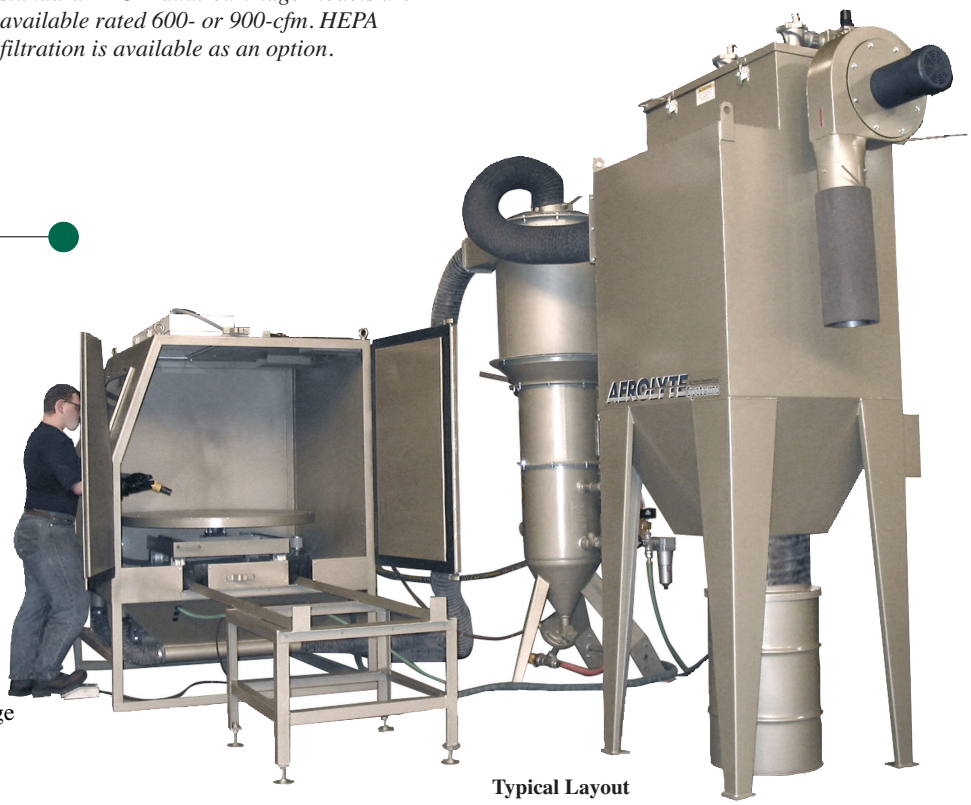

Typical Layout

RPH Models

ZERO RPH dust collectors feature a built-in hopper to minimize dust-handling activity. With RPH models, at each pulse, dust falls first into the hopper and then into a sealed disposal drum or bag beneath it. With disposable bags, the operator never handles the dust—an important safety feature, especially when blasting hazardous or unknown materials.

RPH collectors are commonly used in multi-shift and high-volume operations, for manufacturing, automotive parts rebuilding, and coating removal. Seven standard RPH models are available ranging from 600- to 3600-cfm: the higher the rating, the greater the number of cartridges. HEPA filtration is available as an option.

Optional HEPA Filtration

For environments especially sensitive to dust emissions, standard HEPA filters offer an efficiency rating of 99.97 percent down to 0.3 micron. Three standard models are available: 600-, 900-, and 1200-cfm. HEPA filters are for use with RPC and RPH dust collectors. Larger sizes are available on request.

Optional HEPA shown with RPC model.

Magnahelic® Gauge

Optional Photohelic® Gauge

Standard ZERO RPC and RPH models include a Magnahelic® gauge that measures pressure drop across the filter to indicate when the filters require service. To achieve optimum efficiency and pulse sequence in reverse-pulse dust collectors, a Photohelic® gauge measures the change in static pressure in the exhaust system and triggers the cartridge pulse-cleaning cycle.

When choosing dust collection, always consider: size of enclosure, production volume, condition of part to be blasted, dust generated by media and the material being blasted, and airflow rating of reclaimer.

ZERO Cabinet Dust Collectors

Dust Collection Style & Model	Stock Number	Nominal Airflow Rating (CFM)	Filter Area (ft^2)	Qty of Tubes or Cartridges	Tube or Cartridge S/N	HP & Electrics	WxDxH (inches)	Weight (lbs
OCCASIONAL–USE APPLICATIONS	**Not for toxic dust applications.**							
Dust Bag	11501	300	20					2
Dust Bag	11502	600	29					3
LIGHT– AND MEDIUM–DUTY APPLICATIONS	**Not for toxic dust applications.**							
Dry Filter 300	12699	300	75	15 tubes	11503	n/a	30 x 16 x 79	209
Dry Filter 600	12700	600	125	25 tubes	11503	n/a	30 x 25 x 80	272
Dry Filter 900	12701	900	200	40 tubes	11503	n/a	30 x 38 x 81	325
MEDIUM– AND HIGH–PRODUCTION APPLICATIONS								
RPC-2-600	15804	600	470	2	15673	1 HP 115/1/60	24 x 36 x 64	620
RPC-2-600	15939	600	470	2	15673	1 HP 230 or 460/3/60	24 x 36 x 64	620
RPC-2-900	20526	900	470	2	15673	2 HP 230 or 460/3/60	24 x 36 x 64	670
HIGH–PRODUCTION AND HEAVY DUTY–INDUSTRIAL APPLICATIONS	**Larger sizes are available on request.**							
RPH-2-600	20527	600	470	2	15673	1 HP 115/1/60	36 x 36 x 115	1180
RPH-2-600	20528	600	470	2	15673	1 HP 230 or 460/3/60	36 x 36 x 115	1180
RPH-2-900	20529	900	470	2	15673	2 HP 230 or 460/3/60	36 x 36 x 115	1180
RPH-3	20530	1200	705	3	15673	5 HP 230 or 460/3/60	36 x 54 x 115	1805
RPH-4	20531	1800	940	4	15673	7.5 HP 230 or 460/3/60	36 x 72 x 115	1950
RPH-6	20532	2500	1410	6	15673	10 HP 230 or 460/3/60	56 x 72 x 132	2140
RPH-8	20533	3600	1880	8	15673	15 HP 230 or 460/3/60	56 x 72 x 132	2840
OPTIONAL HEPA AFTER FILTERS FOR RPC AND RPH MODELS	**Larger sizes are available on request.**							
HEPA-600	23625	600	n/a	1	22502	n/a	25 x 25 x 45	159
HEPA-900	23626	900	n/a	1	22502	n/a	25 x 25 x 45	220
HEPA-1200	23627	1200	n/a	1	22502	n/a	25 x 25 x 45	280

Clemco is committed to continuous product improvement.
Specifications are subject to change without notice.
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