

Pro-Finish® Media Reclaimers

Media reclamation can be one of the most critical aspects of air-blasting processes. In addition to media costs, reclaimer performance affects operating speed and quality. Failure to remove dust and fines has an adverse effect on consistency and productivity. If oversized particles are returned to the blast system, for example, clogging and/or inconsistent results often occur.

Pro-Finish® reclaimers provide precise control of media recycling. These reclaimers can be adjusted to control the recovery of fine, medium or coarse working materials while removing unwanted particles from the blasting process. As a result, you enjoy reduced media costs as well as consistent, high-quality results.

All Pro-Finish reclaimers deliver 99% efficiency, include a screen to prevent over-sized particles from clogging, provide an easy-open access door for quick cleaning and filling, and feature 12 gauge construction for extended service life.

Reclaimer Options

Plus, we offer options to improve handling of both harsh and light media.

An easily replaceable **inlet wear plate** protects the most vulnerable area of the reclaimer. Upgrading to **Ultra-wear lining** increases the life expectancy by ten times.

For more efficient recycling of difficult media, a **vibrating screen** assures smooth, consistent flow by overcoming problems associated with very fine abrasives (200-300 mesh range), low-density media (e.g., plastics and walnut shells), and high humidity.

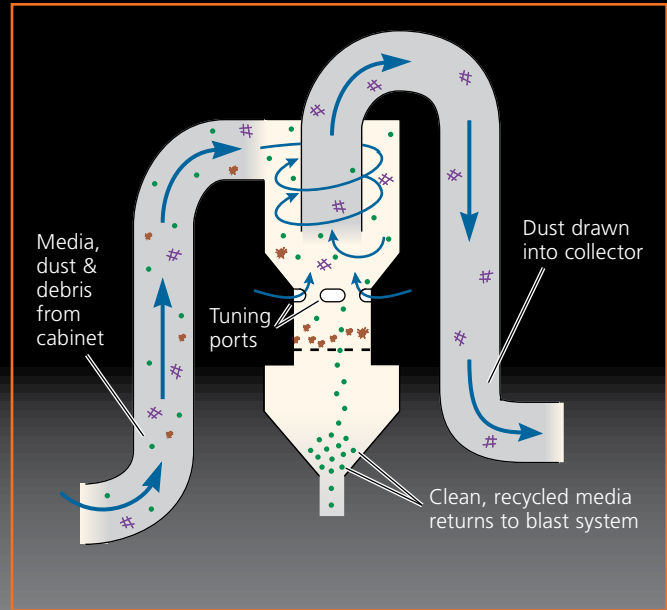
To remove ferrous debris, we add an easily maintained **magnetic separator** to the reclaimer.

For exceptionally durable connections between system components, **heavy-duty, media-conveying duct** made of smooth-wall, wire-reinforced PVC is available.

Media/Reclaimer Compatibility

RECLAIMER CFM	GLASS BEADS	ALUMINUM OXIDE	STEEL GRIT	STEEL SHOT
400	ALL	46	120	S-70
600	ALL	36	80	S-110
900	ALL	36	80	S-110
1200	ALL	30	40	S-170

Chart shows the maximum media sizes recoverable with single-gun/nozzle systems. Multiple guns, larger nozzles, operation at altitudes above 5000 feet, or use of a 50 Hz electrical supply may require a larger reclaimer and dust-collector blower. Larger sizes may be used. Consult factory.



Reclaimer Operating Principles

All Pro-Finish media reclaimers are tunable. By adjusting a fine-tuning band on the reclaimer, the amount of air introduced into the system can be controlled to assure precise separation of functional media from dust and other unwanted debris.

As spent media, dust and debris are pulled by air flow to the reclaimer inlet, incoming air and media spiral in a downward vortex, throwing larger particles against the outer reclaimer wall. An air stream forms an upward counter vortex through the center tube, which carries out dust while heavier particles drop into the storage hopper below for reuse. A screen catches any oversized debris.

Dust and undersized debris are drawn from the reclaimer into the bottom of the dust collector. Sudden expansion forces heavier dust particles to the bottom. Remaining fine dust is pulled to the surface of the dust filters. Clean air can then be discharged to the work area.

NOTE: The cfm of all Pro-Finish reclaimers is rated at nominal static working pressure of 6" water, with the exception of the 1200 cfm model, rated at 10" static pressure. Competitive units may appear to achieve higher cfm due to ratings based on inadequate working static pressure.

Pro-Finish® Dust Collectors

Available in cartridge and bag-house designs, Pro-Finish® dust collectors improve working conditions while reducing maintenance and operating costs. By capturing 99% or more of all particles one micron or larger, these efficient dust collectors permit filtered air to be recirculated into the plant, thus providing significant savings on heating and air conditioning.

Features shared by both designs include:

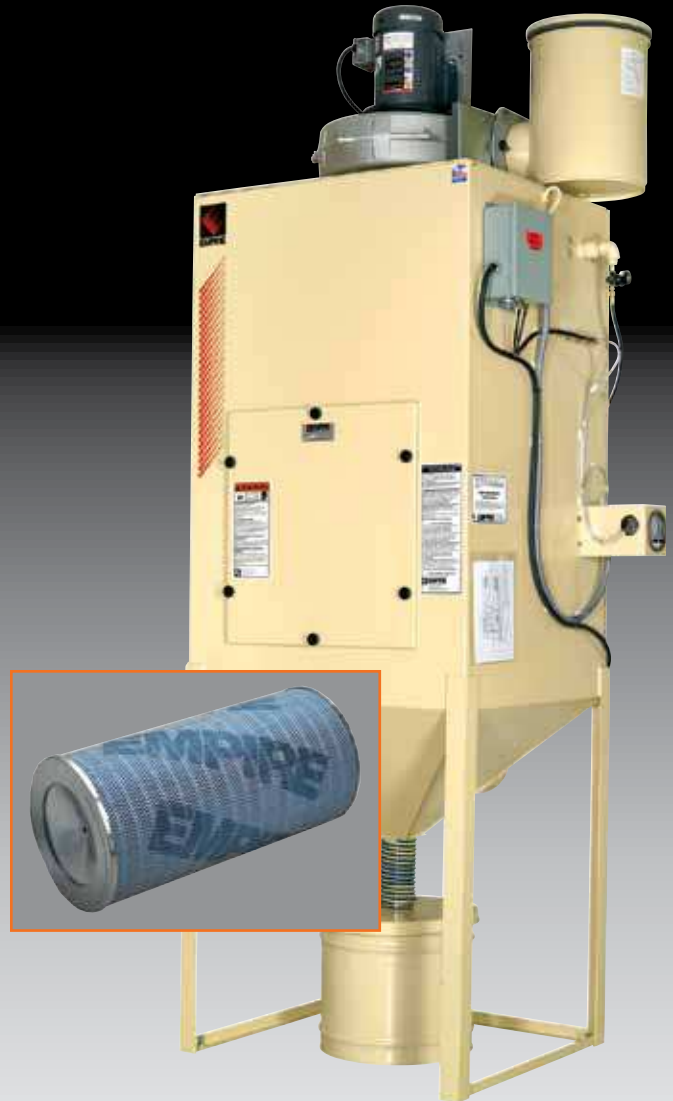
- 14 gauge, reinforced construction
- Fan blade on clean-air side for long life
- Raised clean-out opening for fast waste removal
- Top-clean air discharge for operator comfort
- Push-button control for thorough cleaning



Bag-House Collectors

Our bag-house dust collectors meet the needs of most industrial air-blast operations at a lower cost than cartridge collectors. Plus, the ability to capture 99% of all particles one micron or larger normally permits recirculation of air to the workplace.

In addition, we offer options to automate bag cleaning and reduce noise.



Cartridge Collectors

Pro-Finish cartridge dust collectors increase productivity in three ways. For starters, they can operate continuously; the air-blast system does not have to be shut down while dust is removed from filtration surfaces.

Next, they simplify dust removal from filtration material. Push-button reverse jet-pulsing, a standard feature on our cartridge collectors, enables an operator viewing a minihelic gauge—which monitors pressure drop across the filter—to purge dust while the air-blast system is operating. Alternatively, an optional photohelic upgrade moves dust from filtration surfaces to a collection drum automatically—at the right time and without operator involvement.

Finally, the collection cartridges, once worn, can be easily removed and replaced through a large access door.

Options are available for reducing fan noise and expediting dust disposal.