Pro-Finish® Cabinet Systems

- Rugged Construction
- Versatile Design
- Over 100 Models

Many Factory Options



Buying Guide for Industrial Air-Blast Cabinets

Why You Should Choose a Pro-Finish® System

If your operations involve cleaning with chemicals, acid etching or dipping, liquid honing, wire brushing, sanding, deburring, grinding or peening, odds are a Pro-Finish[®] system will save you time and money.

• These cabinet systems, designed for non-stop blasting, increase production rates because blasting is faster than other manual methods.

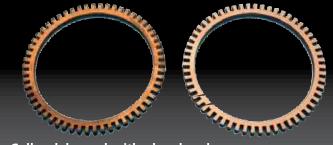
• Their versatility enables you to perform multiple tasks, ranging from blending surface flaws to removing foreign matter, such as carbon from pistons, without affecting tolerances. By simply varying air pressure and blast media, you can clean or peen and do a lot in between.

• Modular design, including many standard factory options, lets you select a system that's just right for you— without paying for features and accessories you don't need. Pro-Finish also gives you the choice of a suction or pressure blast system.

• Blasting eliminates the environmental hazards associated with chemical finishing because most modern blast media are non-caustic and non-toxic. Plus, Pro-Finish systems put the emphasis on safety in mechanical ways with features such as blasting interlocks on cabinet doors, rounded corners on safety-glass viewing windows and guards on sharp floor edges, just to list a few.

| Contents | |
|---|---------|
| Pro-Finish [®] Features | Page 3 |
| Pressure Blast Systems | Page 4 |
| Pressure System Options | Page 5 |
| Suction Blast Systems | Page 6 |
| Suction System Options | Page 7 |
| Universal Cabinet Options | Page 8 |
| Tools to Automate | Page 9 |
| Reclaimers & Options | Page 10 |
| Dust Collectors & Options | Page 11 |
| Pro-Finish [®] System Dimensions | Page 12 |
| Specialized Pro-Finish® Cabinets | Page 13 |
| CABINET SPECIFICATIONS | |
| Pressure Systems, Standard | Page 14 |
| Pressure Systems, FaStrip® | Page 15 |
| Pressure Systems, SafeStrip [™] | Page 15 |
| Pressure Systems, Single Pass | Page 15 |
| • Pressure Systems, Ergo-Blast | Page 16 |
| Suction Systems, Standard | Page 17 |
| Suction Systems, Ergo-Blast | Page 18 |
| Application Considerations | Page 19 |
| Media Selection Guide | Page 20 |
| | |

Parts BEFORE & AFTER Air Blasting in a Pro-Finish® Cabinet



Collar deburred with glass beads



Cylinder surface profiled with aluminum oxide



Copier tube etched with silicon carbide

Standard Pro-Finish® Features

No other blast cabinet on the market today offers the many practical benefits included on a Pro-Finish® cabinet as standard equipment. Just look at the features. The standard components in a Pro-Finish system have been carefully designed for safety, ease of operation, reduced maintenance and increased productivity. Throughout, these cabinets are built to meet the challenges of non-stop industrial blasting.

Bolt-Secured Glove Rings assure at tight seal, expedite glove changeovers — no tools required— and include armrests for improved operator comfort and performance.



Bag-House Dust Collectors feature an energy-saving air-filtration system that captures 99% of all particles one micron or larger so cabinet ventilation can be recirculated. Fan is mounted on the dust collector rather than reclaimer to prevent abrasive wear to the fan housing and impeller.

Cartridge Dust Collectors, offering improved efficiency and durability, are also available in 600, 900 and 1200 cfm models to simplify cleaning and maintenance.

High-Intensity Flood Lights reduce the chances of over blasting caused by poor visibility. Lights can be tilted to focus illumination on areas being blasted. Two lights are supplied on 2636, 3648, 3660, 3674 and 4848 models; three are provided as standard on 6060 and 7272 cabinets.

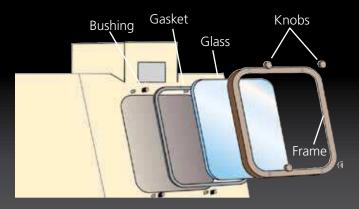
Kleensweep[™] creates an air stream across the viewing window to reduce dust buildup and improve visibility.

Moisture Separator improves efficiency and reduces downtime by helping to prevent oil and moisture in supply lines from contaminating media.

One-Cubic-Foot Pressure Vessel minimizes refilling time and seals automatically for fast, easy startup. Construction is ASME coded only.

Rigid, Dual-Panel Doors stand up to abrasives and seal more tightly than single-panel doors. Flush construction minimizes media spill when the door is opened.

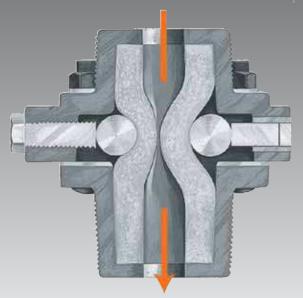
Safety-Door Switch (Patent No. 4,505,077) prevents accidental blasting when doors are open. Complies with OSHA requirements.



Safety-Glass Window (14"x 22") provides large viewing area, can be changed in a few minutes without tools and has rounded corners for safe handling.

Self-Adjusting Door Latch assures continued tight sealing as door gasket ages.

Simple, Pneumatic Controls deliver greater reliability than electric controls employing limit switches and solenoids that often stick and burn out.



Sure-Flo® Media Regulator (Patent No. 4,518,145), used on pressure cabinets, is easy to adjust and assures precise media regulation, as well as continuous flow. These regulators have excellent wear characteristics and, once the metering tube is worn, it can be easily replaced more quickly and economically than in any other media regulator on the market.

Tunable Media Reclaimers can be adjusted to control media size. Externally adjustable tuning band requires no tools and controls the size of fines extracted from the blast media. Screen prevents oversized particles from causing clogging and an easy access door permits quick filling.

Wide Foot Treadle enables operation with either foot.

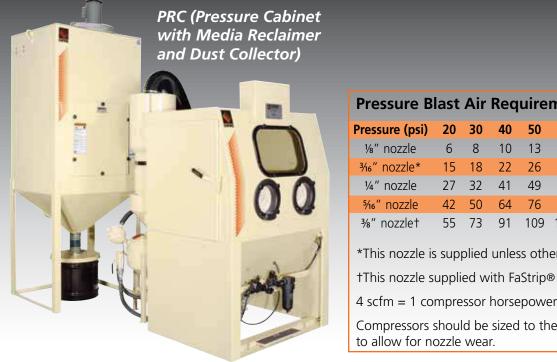
Pro-Finish® Pressure Blast Cabinets

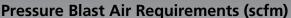
Pressure cabinets deliver blast media at higher velocities than suction systems, making a Pro-Finish® pressure cabinet ideal for turning out work fast. In many applications, these pressure cabinets will perform jobs four-times faster than suction systems. In addition, they use compressed air more efficiently and provide more precise blasting control at both high and low operating pressures. For really demanding tasks, like removing tight mill scale or finishing hard-to-reach surfaces, a pressure system is normally the only practical choice.

Pro-Finish pressure cabinets come in seven standard sizes with a number of variations. (See pages 12 and 13.)

Most include dust collectors and media reclaimers as standard equipment. (Less expensive dust bags can be selected with some models—see specifications on page 14.)

With Empire reclaimers, Pro-Finish pressure cabinets not only reduce operating costs associated with the purchase and disposal of media, but also assure consistent results shift after shift. Plus, they are available with options designed to meet almost any production need.





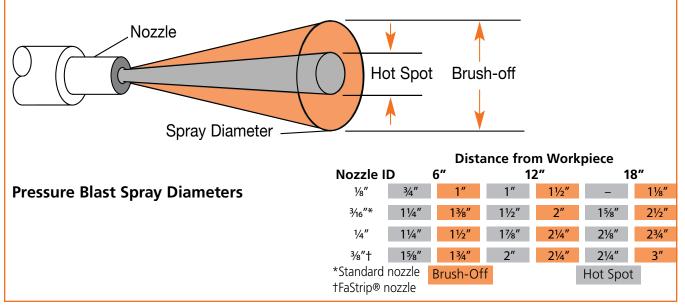
| Pressure (psi) | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 120 |
|----------------|----|----|----|-----|-----|-----|-----|-----|
| ⅓″ nozzle | 6 | 8 | 10 | 13 | 14 | 17 | 20 | 25 |
| ³∕ı₀″ nozzle* | 15 | 18 | 22 | 26 | 30 | 38 | 45 | 55 |
| ¼″ nozzle | 27 | 32 | 41 | 49 | 55 | 68 | 81 | 97 |
| ⁵⁄16″ nozzle | 42 | 50 | 64 | 76 | 88 | 113 | 137 | 152 |
| ³⁄₃" nozzle† | 55 | 73 | 91 | 109 | 126 | 161 | 196 | 220 |

*This nozzle is supplied unless otherwise specified.

†This nozzle supplied with FaStrip® cabinets.

4 scfm = 1 compressor horsepower.

Compressors should be sized to the next larger nozzle



Pro-Finish® Pressure Blast Options

Fine-tuning controls, incorporating Empire's **automatic Sure-Flo® media regulator**, enable the operator to adjust the richness of the air-to-grit mixture from the front of the cabinet while he works. As a result, dialing in the optimum air-to-grit ratio for a particular job is greatly simplified. To further assist the operator, an indicator displays relative grit richness within the blast stream. In applications where media are changed frequently—or where contamination can cause periodic clogging of the girt valve—a push-button choke is available on the same control panel.

A **fixed-orifice media regulator** is attached below the Sure-Flo valve in applications, such as shot peening, where very precise metering is required.

For light media, our **MG-78 CR exhaust valve** works in combination with the automatic Sure-Flo to facilitate pressure vessel refills.

An optional **low media-level sensor and indicator** warns the operator when the media supply in the pressure vessel is low. **Sight glasses** enable visual checks on pressurized vessels.

Upgrading to a **3.5 cubic-foot pressure vessel** triples the amount of blasting that can be accomplished between media refills. This larger vessel is especially valuable when using a large blast nozzle or a second nozzle, and when attaching an optional **basket assembly** to the cabinet door for automated batch finishing of small workpieces. (See page 7 for more information on the basket attachment.)

Two pressure-blast nozzles can be supplied with Pro-Finish® systems to increase coverage and reach multiple faces on parts such as screw threads or root sections. Finishing speed is double that of an ordinary high-production pressure system. The two nozzles can be turned on and off individually with manual valves. Two holders are included for nozzle positioning.

Di-Carb™ nozzles (tungsten carbide) stand up to steel abrasives and glass beads; **Boron carbide nozzles** deliver superior performance when blasting with aluminum oxide, silicon carbide and garnet.

A **fixed-nozzle holder**, which bolts anywhere on the cabinet wall, can be adjusted to position the nozzle in any orientation, leaving both of the operator's hands free to maneuver workpieces.

Door trays prevent dust, which clings to the cabinet doors, from dropping onto the floor when the doors are opened.

Pressure conversion kits upgrade suction cabinets to pressure cabinets in the field.

NOTE: Some option combinations are not available. For information, please consult Empire or your local Empire distributor.



Fine-tuning controls let operator adjust air/grit ratio from cabinet front for optimum results.



Automatic Sure-Flo® media regulator promotes consistent media flow and reduces energy costs.

Sight glasses permit viewing into pressurized vessels for quick accurate checks on media supply.



Pro-Finish® Suction Blast Cabinets

Pro-Finish[®] suction cabinets are simpler and cost less than pressure cabinets. They also blast continuously without the need to stop for media refills, and they simplify the use of multiple nozzles. The results are usually comparable to those achieved with a pressure system although production rates are not as high. When initial cost and maintenance are primary concerns, the suction system is a good choice.

Pro-Finish suction systems come in seven sizes and can be specified with a dust collector or dust bag on smaller units. A media reclaimer is optional. Nevertheless, when using media that can be recovered, a reclaimer is advisable because it normally pays for itself quickly in terms of reduced waste and high-quality, repeatable results.

Pro-Finish suction cabinets are available with many factory options that contribute to ease of operation, reduced maintenance and greater productivity.

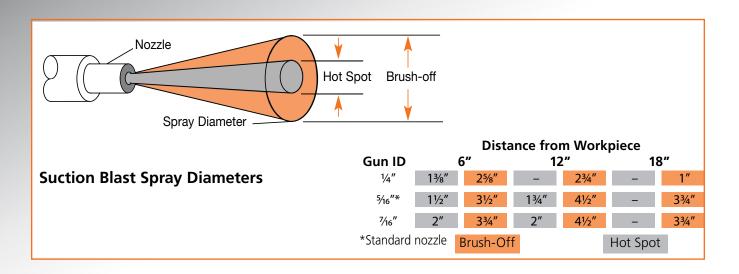
Plus, Pro-Finish's modular design lets you upgrade to a pressure system in the field at any time, enabling you to build on your original investment.



| Suction | Blast Air | Requirements | (scfm) |
|---------|-----------|--------------|--------|
|---------|-----------|--------------|--------|

| Pressure (psi) | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|--|----|----|----|----|----|----|----|------------------|
| 1⁄4" nozzle, 3⁄32" air jet | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 100 15 |
| ¼"nozzle, %"air jet | 10 | 12 | 15 | 17 | 19 | 21 | 23 | 26 |
| ¼" nozzle, 1/8" air jet5/16" nozzle, 5/32" air jet | 15 | 19 | 23 | 27 | 31 | 37 | 38 | 42 |
| ⁷ ∕₁6″nozzle, ⁷ ⁄₃2″air jet | 31 | 38 | 45 | 52 | 59 | 66 | 73 | 80 |

*This nozzle is supplied unless otherwise specified. 4 scfm = 1 compressor horsepower.



Pro-Finish® Suction Blast Options

Multiple blast guns add to the speed and versatility of Pro-Finish® suction cabinets. A total of four guns can be employed to facilitate the automated blasting of parts with irregular profiles. In addition to short-handle guns, the multiple-gun option includes individual shutoff valves, a one-inch pipe string, required hoses, and holders for gun positioning. Multi-gun packages include a **4.5 cubic-foot media storage hopper** with easy access for loading and media inspection.

A **fixed gun holder** adjusts to position the blast gun or guns in any orientation so the operator can use both hands to manipulate workpieces within the blast stream.

Guns with **Di-Carb™ nozzles** (tungsten carbide) stand up to steel abrasives and glass beads; **Boron carbide nozzles** slow wear when blasting with aluminum oxide, silicon carbide and garnet.

Our **basket assembly**, which attaches to the cabinet door, automates batch finishing of small workpieces. The basket attachment includes its own drive motor and 60 minute timer. In addition, it is removable, which helps in unloading of parts and permits the cabinet to be used for manual blasting of larger workpieces. The basket attachment handles 40 pounds or 200 cubic inches of "flowable" parts and can be specified with an abrasionresistant coating for longer service life. Empire also produces dedicated basket-blasting machines in a variety of models and sizes.

Kleen[™] package consists of trays mounted under the cabinet-door opening and a return hose on the suction media regulator. Door trays prevent dust, which clings to the cabinet doors, from dropping onto the floor when the doors are opened. If the blast nozzle plugs, the pressurized media will not spill out of the mediaregulator air intake. Instead, it is routed to the blast cabinet.



Fixed gun holder frees operator to manipulate parts





blast gun handle a full range of abrasives with minimum wear.

4.5 cubic-foot media storage hopper provides a large supply of abrasives to support up to four blast guns.



Basket attachment automates small parts finishing.

Universal Cabinet Options

Factory options can reduce maintenance and improve operating efficiency in many applications. Conveniently, most of these options retrofit to cabinets already in the field.

Rubber curtains extend cabinet life. These freehanging liners, made of black eighth-inch neoprene and held in place by rubber knobs for easy replacement, actually last longer than steel in an abrasive environment. White rubber is also available to brighten the cabinet interior. Beyond protecting the cabinet, these curtains resist discoloration much longer than paint or steel.

Window protectors, offered in clear plastic or a perforated screen, reduce clouding and pitting.

Matting pads parts and prolongs the lives of turntables and cabinet floors.

Pneumatically powered vertical doors save floor space and facilitate loading and unloading of parts when used in combination with rolling manual turntable dollies. Several safety features prevent accidental closing, and a pneumatic sensor prevents blasting whenever the door is open in accordance with OSHA standards. Plastic tracks assure smooth operation and a full-gasket seal keeps media inside the blast enclosure. Rubber lining and heavy-duty construction provide long service life.

Door locking clamps prevent unauthorized release of particles when swings doors are opened.

Rubber safety mats, with holes to catch spilled particles, surround the cabinet to keep adjacent floor surfaces clean and prevent injuries from falls, especially when spherical media is used. The mats also dissipate static electricity, provide a comfortable surface on which to stand, and improve the appearance of the work area.

A **Cabinet sound attenuator**, mounted over the air inlet, suppresses blasting noise by absorbing sound waves and directing them away from the operator.

Our **static strap**, worn on the operator's wrist, dissipates static electrical charge, preventing shock to the operator that might otherwise occur in a low-humidity work environment.

A **system security key-lock** stops use of the cabinet by unauthorized personnel. By retaining the key, supervisors are better able to keep track of why, when and by whom the system is being used.



Rubber curtains, available in white to enhance visibility, protect cabinet interiors and are easy to replace.



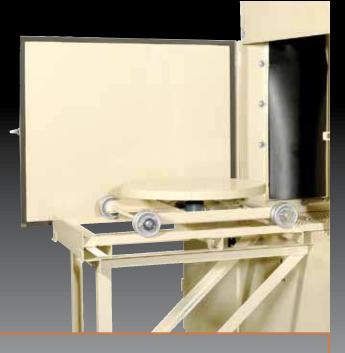
Pro-Finish® Tools to Automate

Powered movement of blast nozzles and/or workpieces automates air-blasting operations to varying degrees. For instance, using a powered turntable in combination with oscillating nozzles makes many blast-finishing processes virtually automatic when a timer package is added to control duration and on/off functions. Some techniques for automating Pro-Finish® cabinets—easily and economically—are described.

Turntables

Turntables, offered in both manual and pneumatically powered models, facilitate the handling of heavy parts and provide opportunities for automation. Turntables can be wheeled into or out of cabinets on a dolly or track, or fixed inside cabinets. Most stationary designs feature a low-profile, giving operators easy "over-the-top" access without wasting interior cabinet space.

Turntable Selection and Part Numbers



MANUAL ROTATION TURNTABLES **POWERED ROTATION TURNTABLES** Stationary Rolling Stationary Rolling Diameter 18" 36" 24" 18" 24" 18" 36" 24" 36" 24" 36" Profile Std. Std. Std. Low Low Low Std. Std. Low Std. Low Capacity 300# 300# 300# 300# 1000# 1000# 1000# 300# 300# 1000# 1000# CABINET MODEL 2636 140422 140574 140502 140321 NA NA NA NA NA NA NA 3648 140422 140574 140502 NA NA 140322 NA 140504* NA 140364 NA 3660 140422 140574 140502 NA NA 140324 NA 140504* NA 140375 NA 3674 140422 140574 140502 NA NA 140322 NA 140504 NA 140364 NA 3696† 140422 140574 140502 NA NA 140322 NA 140504* NA NA NA 4848 140422 140574 140502 140503 NA 140322 140504* 140505* 140365 140323 140364 6060 140422 140574 140502 140503 NA 140324 140325 140504* 140505* 140375 140376 140574 140502 60120† 140422 140503 NA 140324 140425 140504 140505 NA NA

*Not available with Ergo-Blast models. †Two required for both cabinet stations.

•Consult factory for 7272 turntables. •Part numbers above reflect factory installation but may be used to retrofit existing systems.

Gun Oscillators, Timers & Other Accessories

Gun oscillators, suitable for larger Pro-Finish cabinets, can be used with powered turntables and multiple nozzles to reduce the number of guns required, therefore reducing compressed-air consumption. The oscillator will blend multiple passes of the nozzle, creating a more uniform finish. Production rates increase as the benefits of manual coverage and multi-gun blasting are combined.

A radially sweeping oscillator, powered by an air cylinder, strokes as many as four blast guns through a range of up to 18 inches. Stroke length, stroke speed and on/off functions can also be controlled automatically.

Timers are employed to control the on/off functions of blast guns, oscillators and turntables. Our **60 minute spring timer** is powered mechanically and works well in most automated applications. Empire's **precision reset timer**, powered by a synchronous motor, always clicks down from the same preset time. This feature, along with large graduations on the timer dial, assure more accurate control of blast durations.

When using timers with pressure systems, an adequate media supply must be available for the duration of the blast process. Consequently, a larger pressure vessel and/or media-level indicator should be considered.

Automatic door clamps lock the cabinet during blasting. For environments in which passive dust emissions present a safety concern, a timer is added to allow for adequate dust evacuation before the cabinet doors are opened. When "close-to-clean-room" standards are required, delay switches are supplied.

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.

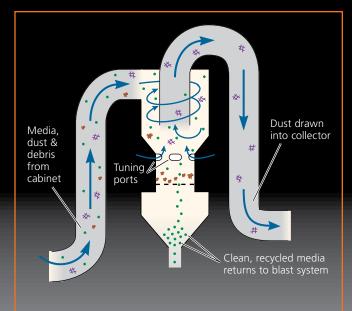
For more efficient recycling of difficult media, a **vibrating screen** assures smooth, consistent flow by overcoming problems associated with very fine abrasives (200-300 mesh range), low-density media (e.g., plastics and walnut shells), and high humidity.

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 | | | | | |
| | | 30 | | | | | | | |

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.

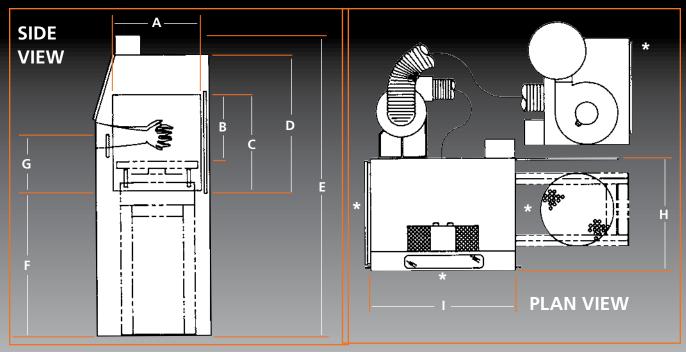
Next, they simplify dust removal from filtration material. Push-button reverse jet-pulsing, a standard feature on our cartridge collectors, enables an operator viewing a minihelic gauge—which monitors pressure drop across the filter—to purge dust while the airblast system is operating. Alternatively, 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.

Pro-Finish® Dimensions

| Standard cabinets (See "SIDE VIEW" for A, B, C, D, E, F and G. See "PLAN VIEW" for H, I, floor area and access points.) | | | | | | | |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| CABINET MODEL SIZE | 2636 | 3648 | 3660 | 3674 | 4848 | 6060 | 7272 |
| A) Door opening depth (ID) | 20″ | 29″ | 29″ | 29″ | 41″ | 50″ | 64″ |
| B) Height from turntable to top of door opening | | | | | | | |
| Stationary manual turntable | 17″ | 27″ | 27″ | 27″ | 27″ | 35″ | — |
| Rolling manual turntable | 15″ | 25″ | 25″ | 25″ | 25″ | 33″ | 44″ |
| Rolling powered turntable | — | 21″ | 21″ | 21″ | 21″ | 29″ | 38″ |
| Low-profile turntable | 20″ | 30″ | 30″ | 30″ | 30″ | 38″ | — |
| C) Door opening height (ID) | 22″ | 32″ | 32″ | 32″ | 32″ | 40″ | 58″ |
| D) Height inside from enclosure floor to ceiling | 30″ | 36″ | 36″ | 36″ | 36″ | 44″ | 62″ |
| E) Exterior height | 72″ | 75″ | 75″ | 75″ | 75″ | 80″ | 84″ |
| F) Height from cabinet base to enclosure floor | 34″ | 34″ | 34″ | 34″ | 34″ | 34″ | 28″ |
| G) Height from enclosure floor to glove-entry midpoint | 10″ | 10″ | 10″ | 10″ | 10″ | 10″ | 25" to 29" |
| H) Cabinet depth (exterior) | 26″ | 36″ | 36″ | 36″ | 48″ | 60″ | 72″ |
| I) Cabinet width (exterior) | 36″ | 48″ | 60″ | 74″ | 48″ | 60″ | 72″ |
| Floor area | 42 ft ² | 59 ft ² | 87 ft ² | 90 ft ² | 80 ft ² | 87 ft ² | 163 ft ² |
| Access points | * | * | * | * | * | * | * |



NOTES TO CABINET DIMENSIONS

• System shown includes cabinet, reclaimer, dust collector, turntable and some popular options. (Other configurations and options will affect dimensions, which are approximate and subject to change.) • Dust collector, reclaimer and options can be rearranged within limits to suit particular installations. • Floor areas shown indicate basic reclaimer/dust-collector sizes and include operator access points as well as turntable and platform. • Height includes reclaimer and dust-collection hose.

| Dust Collectors | (Dimensions | in inches) | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| MODEL | DCM-80A | DCM-200 | DCM-200A | DCM-200B | CDC-6 | CDC-9 | CDC-12 |
| Dimensions (DxWxH) | 21 x 26 x 98 | 34 x 39 x 107 | 34 x 39 x 105 | 34 x 39 x 116 | 34 x 39 x 115 | 34 x 39 x 115 | 34 x 39 x 118 |
| With Sound Attenuator & Automatic Bag Shaker | 29 x 31 x 107 | 40 x 41 x 112 | 40 x 39 x 112 | 40 x 39 x 127 | — | — | — |
| With Sound Attenuator & Photohelic Package | | | _ | | 34 x 48 x 120 | 34 x 48 x 120 | 34 x 48 x 123 |

Dust Bags (24" deep x 30" wide x 83" high)

Specialized Pro-Finish® Cabinets

FaStrip® Cabinets

FaStrip® cabinets are designed for use with low-density media, such as plastics, that provide fast coverage without eroding substrates. Paint stripping, for example, can be performed quickly and economically without the use of hazardous chemicals.

FaStrip cabinets deliver plastic or organic media from a large venturi nozzle coupled to a grounded, flexible blast hose. A large, vibrating screen within the reclaimer and Empire's exclusive automatic Sure-Flo® media regulator, working in tandem with the MG-78 CR exhaust valve, keeps light media flowing smoothly. A magnetic separator is also included in the system to extract ferrous particles that can damage delicate substrates. (See page 15 for available models, part numbers, general specifications and shipping weights.)



Ergo-Blast Cabinets

Ergo-Blast systems, for instance, increase productivity by improving operator performance during extended periods of continuous blasting. These cabinets are ergonomically designed for sit-down operation and include other features to reduce fatigue. As a result, machine operators concentrate on the job at hand when working for hours on repetitive tasks rather than trying to find the best position to relieve a sore back. By removing everyday distractions, Ergo-Blast cabinets maximize production. (See pages 16 and 18 for available models, part numbers, general specifications and shipping weights.)



Pro-Finish® 7272 Cabinets

This cavernous cabinet will accept large parts, yet it's less expensive than a blast room, and it eliminates the need for operators to suit-up in protective clothing. The 7272 cabinet includes oval glove holes to extend the operator's range of motion and, thanks to a dual-cone bottom, a low floor height, enabling the operator to reach work surfaces without having to continually reposition parts in the blast enclosure.

Manufactured from 11 gauge plate steel with continuously welded seams, this rugged cabinet has a floor capacity of 1500 pounds. The blast hose enters from the top to relieve operator strain, and a serpentine media-return hose eliminates problems associated with the use of "Y" branches.

SafeStrip[™] Cabinets

SafeStrip[™] cabinets contain the blast process during the cleaning and stripping of delicate surfaces. They are designed to work in conjunction with our SafeStrip portables as well as other pots capable of delivering fine media.

With a SafeStrip system, you can quickly and safely remove old coatings, dirt, oil, corrosion and other unwanted residues from soft metals, rubber, plastics and other sensitive surfaces. SafeStrip is ideal for work on tools, machine parts and molds, and in many other applications requiring a "light touch." (See page 15 for available models, part numbers, general specifications and shipping weights.)

Modified Cabinets

Empire's ability to modify cabinets for specialized customer needs is unmatched in the air-blast equipment industry. By combining Pro-Finish features and options with our expertise in automated systems, we can modify standard equipment to meet production goals at a fraction of the cost required for start-to-finish custom engineering.

Pro-Finish® Cabinet Specifications (Pressure Systems, Standard)

| MODEL DESCRIPTION | PART NUMBER | NUMBER OF DOORS | DUST COLLECTION | BLOWER MOTOR | SHIPPING WEIGHT |
|-----------------------|----------------|--------------------|--------------------|-----------------|--------------------|
| 2636 PR-4 | 142101 | 1 standard | — | — | 615 lb |
| 2636 PRB-4 | 102100 | 1 standard | Dust bag | 1 hp | 664 lb |
| 2636 PRC-4 | 102101 | 1 standard | DCM-80A | 1 hp | 914 lb |
| 2636 PR-6 | 142142 | 1 standard | _ | | 630 lb |
| 2636 PRC-6 | 102142 | 1 standard | DCM-200 | 1 hp | 1345 lb |
| 2636 PRC-6, CDC | 102148 | 1 standard | CDC-6 | 1½ hp | 1465 lb |
| 3648 PR-4 | 143101 | 2 standard | — | — | 735 lb |
| 3648 PRB-4 | 103100 | 2 standard | Dust bag | 1 hp | 782 lb |
| 3648 PRC-4 | 103101 | 2 standard | DCM-80A | 1 hp | 1032 lb |
| 3648 PR-6 | 143121 | 2 standard | — | — | 750 lb |
| 3648 PRC-6 | 103121 | 2 standard | DCM-200 | 1½ hp | 1479 lb |
| 3648 PRC-6, CDC | 103151 | 2 standard | CDC-6 | 1½ hp | 1779 lb |
| 3660 PR-6 | 146102 | 2 standard | — | — | 1180 lb |
| 3660 PRC-6 | 126101 | 2 standard | DCM-200 | 1½ hp | 1910 lb |
| 3660 PRC-6, CDC | 126151 | 2 standard | CDC-6 | 1½ hp | 2030 lb |
| 3660 PR-9 | 146121 | 2 standard | | — | 1215 lb |
| 3660 PRC-9 | 126121 | 2 standard | DCM-200A | 2 hp | 1945 lb |
| 3660 PRC-9, CDC | 126152 | 2 standard | CDC-9 | 2 hp | 2065 lb |
| 3674 PRC-9 | 128121 | 2 standard | DCM-200A | 2 hp | 1970 lb |
| 3674 PRC-9, CDC | 128151 | 2 standard | CDC-9 | 2 hp | 2290 lb |
| 3696 TWIN PRB-4 | 106100 | 2 standard | (2) Dust bags | (2) 1 hp | 1379 lb |
| 3696 TWIN PRC-4 | 106101 | 2 standard | (2) DCM-80A | (2) 1 hp | 1879 lb |
| 3696 TWIN PRC-6 | 106121 | 2 standard | (2) DCM-200 | (2) 1½ hp | 2773 lb |
| 3696 TWIN PRC-6, CDC | 106151 | 2 standard | (2) CDC-6 | (2) 1½ hp | 3373 lb |
| 4848 PR-6 | 144101 | 2 standard | — | | 910 lb |
| 4848 PRC-6 | 104101 | 2 standard | DCM-200 | 1½ hp | 1636 lb |
| 4848 PRC-6, CDC | 104151 | 2 standard | CDC-6 | 1½ hp | 1936 lb |
| 4848 PR-9 | 144121 | 2 standard | | | 940 lb |
| 4848 PRC-9 | 104121 | 2 standard | DCM-200A | 2 hp | 1671 lb |
| 4848 PRC-9, CDC | 104152 | 2 standard | CDC-9 | 2 hp | 1791 lb |
| 6060 PR-9 | 145101 | 2 standard | — | | 1219 lb |
| 6060 PRC-9 | 105101 | 2 standard | DCM-200A | 2 hp | 1949 lb |
| 6060 PRC-9, CDC | 105151 | 2 standard | CDC-9 | 2 hp | 2069 lb |
| 60120 TWIN PRC-9 | 107101 | 2 standard | DCM-200A | (2) 2 hp | 3713 lb |
| 60120 TWIN PRC-9, CDC | 107151 | 2 standard | CDC-9 | (2) 2 hp | 4313 lb |
| 7272 PRC-9 | 127101 | 1 standard | DCM-200A | 2 hp | 2900 lb |
| 7272 PRC-12 | 127123 | 1 standard | DCM-200B | 5 hp | 3000 lb |

Notes to Specifications: All cabinet sizes feature 14 gauge steel construction with the exception of 7272 cabinets which are 11 gauge. Cabinets with a single door open on the right-hand side. (An additional left-hand door is optional.) For information on **electricals**, **reclaimer sizing** and **dust collection**, see "**Application Considerations**" on page 19.

Meaning of Model Numbers and Letter Codes: The first two numbers indicate nominal cabinet depth in inches. The next two or three numbers show nominal cabinet width. Letters following model numbers mean the following: S = Suction; P = Pressure; B = Bag; C = Collector; R = Reclaimer. Numerals following letter codes show reclaimer-ventilation capacity in hundreds of cubic feet per minute at 6" static pressure. (1,200 cfm units are rated at 10" static pressure.) **TWIN** indicates a two-cabinet system. (Example: a 60120 TWIN consists of two 6060 cabinets) Letter codes in parentheses translate as follows: **CDC** = Cartridge Dust Collector; **ERGO** = Ergo-Blast model; **FS** = FaStrip model.

Pro-Finish® Cabinet Specifications (Pressure Systems, FaStrip®)

| MODEL DESCRIPTION | PART NUMBER | NUMBER OF DOORS | DUST COLLECTION | BLOWER MOTOR | SHIPPING WEIGHT |
|-------------------------------|----------------|--------------------|--------------------|-----------------|--------------------|
| FaStrip® 2636 PRC-6 | 102130 | 1 standard | DCM-200 | 1½ hp | 1380 lb |
| FaStrip® 2636 PRC-6, CDC | 102159 | 1 standard | CDC-6 | 1½ hp | 1495 lb |
| FaStrip® 2636 PR-6 | 140959 | 1 standard | _ | | 660 lb |
| ERGO FaStrip® 3648 PRC-6 | 121921 | 2 standard | DCM-200 | 1½ hp | 1600 lb |
| ERGO FaStrip® 3648 PRC-6, CDC | 121951 | 2 standard | CDC-6 | 1½ hp | 1900 lb |
| FaStrip® 3648 PR-6 | 140950 | 2 standard | _ | | 775 lb |
| FaStrip® 3648 PRC-6 | 103129 | 2 standard | DCM-200 | 1½ hp | 1500 lb |
| FaStrip® 3648 PRC-6, CDC | 103159 | 2 standard | CDC-6 | 1½ hp | 1800 lb |
| ERGO FaStrip® 3660 PRC-9 | 123921 | 2 standard | DCM-200A | 2 hp | 2075 lb |
| ERGO FaStrip® 3660 PRC-9, CDC | 123951 | 2 standard | CDC-9 | 2 hp | 2195 lb |
| FaStrip® 3660 PR-9 | 126951 | 2 standard | — | _ | 1245 lb |
| FaStrip® 3660 PRC-9 | 126129 | 2 standard | DCM-200A | 2 hp | 1975 lb |
| FaStrip® 3660 PRC-9, CDC | 126159 | 2 standard | CDC-9 | 2 hp | 2095 lb |
| FaStrip® 3674 PRC-9 | 128129 | 2 standard | DCM-200A | 2 hp | 1970 lb |
| FaStrip® 3674 PRC-9, CDC | 128159 | 2 standard | CDC-9 | 2 hp | 2290 lb |
| ERGO FaStrip® 4848 PRC-9 | 122921 | 2 standard | DCM-200A | 2 hp | 1800 lb |
| ERGO FaStrip® 4848 PRC-9, CDC | 122951 | 2 standard | CDC-9 | 2 hp | 2050 lb |
| FaStrip® 4848 PR-9 | 140951 | 2 standard | — | | 965 lb |
| FaStrip® 4848 PRC-9 | 104129 | 2 standard | DCM-200 | 1½ hp | 1696 lb |
| FaStrip® 4848 PRC-9, CDC | 104159 | 2 standard | CDC-9 | 1½ hp | 1816 lb |
| ERGO FaStrip® 6060 PRC-9 | 125921 | 2 standard | DCM-200A | 2 hp | 2074 lb |
| ERGO FaStrip® 6060 PRC-9, CDC | 125951 | 2 standard | CDC-9 | 2 hp | 2193 lb |
| FaStrip® 6060 PR-9 | 140952 | 2 standard | — | — | 1249 lb |
| FaStrip® 6060 PRC-9 | 105129 | 2 standard | DCM-200A | 2 hp | 1975 lb |
| FaStrip® 6060 PRC-9, CDC | 105159 | 2 standard | CDC-9 | 2 hp | 2094 lb |
| FaStrip® 7272 PRC-9 | 127901 | 1 standard | DCM-200A | 2 hp | 3000 lb |
| FaStrip® 7272 PRC-12 | 127923 | 1 standard | DCM-200B | 5 hp | 3100 lb |

Pro-Finish® Cabinet Specifications (Pressure Systems, SafeStrip™, supplied with SafeStrip pot)

| SafeStrip™ 2636 | 102032 | 1 standard | DCM-200 | 1½ hp | 1870 lb |
|---------------------|--------|------------|----------|-------|---------|
| SafeStrip™ 2636 CDC | 102033 | 1 standard | CDC-6 | 1½ hp | 1990 lb |
| SafeStrip™ 3648 | 103032 | 2 standard | DCM-200 | 1½ hp | 1985 lb |
| SafeStrip™ 3648 CDC | 103033 | 2 standard | CDC-6 | 1½ hp | 2105 lb |
| SafeStrip™ 4848 | 104032 | 2 standard | DCM-200 | 1½ hp | 2070 lb |
| SafeStrip™ 4848 CDC | 104033 | 2 standard | CDC-6 | 1½ hp | 2190 lb |
| SafeStrip™ 6060 | 105032 | 2 standard | DCM-200A | 2 hp | 2425 lb |
| SafeStrip™ 6060 CDC | 105033 | 2 standard | CDC-9 | 2 hp | 2545 lb |
| | | | | | |

Pro-Finish® Cabinet Specifications (Pressure Systems, Single Pass supplied with cabinet pot)

| SafeStrip™ 2636 | 102032 | 1 standard | DCM-200 | 1½ hp | 1870 lb |
|---------------------|--------|------------|----------|-------|---------|
| SafeStrip™ 2636 CDC | 102033 | 1 standard | CDC-6 | 1½ hp | 1990 lb |
| SafeStrip™ 3648 | 103032 | 2 standard | DCM-200 | 1½ hp | 1985 lb |
| SafeStrip™ 3648 CDC | 103033 | 2 standard | CDC-6 | 1½ hp | 2105 lb |
| SafeStrip™ 4848 | 104032 | 2 standard | DCM-200 | 1½ hp | 2070 lb |
| SafeStrip™ 4848 CDC | 104033 | 2 standard | CDC-6 | 1½ hp | 2190 lb |
| SafeStrip™ 6060 | 105032 | 2 standard | DCM-200A | 2 hp | 2425 lb |
| SafeStrip™ 6060 CDC | 105033 | 2 standard | CDC-9 | 2 hp | 2545 lb |

See Page 14 for "Notes to Specifications" and "Meaning of Model Numbers and Letter Codes."

Pro-Finish® Cabinet Specifications (Pressure Systems, Ergo-Blast)

| MODEL DESCRIPTION | PART NUMBER | NUMBER OF DOORS | DUST COLLECTION | BLOWER MOTOR | SHIPPING WEIGHT |
|-------------------------------|----------------|--------------------|--------------------|-----------------|--------------------|
| ERGO 2636 PRC-4 | 120101 | 1 standard | DCM-80A | 1 hp | 1015 lb |
| ERGO 3648 PRC-4 | 121101 | 2 standard | DCM-80A | 1 hp | 1130 lb |
| ERGO 3648 PRC-6 | 121121 | 2 standard | DCM-200 | 1½ hp | 1585 lb |
| ERGO 3648 PRC-6, CDC | 121151 | 2 standard | CDC-6 | 1½ hp | 1885 lb |
| ERGO FaStrip® 3648 PRC-6 | 121921 | 2 standard | DCM-200 | 1½ hp | 1600 lb |
| ERGO FaStrip® 3648 PRC-6, CDC | 121951 | 2 standard | CDC-6 | 1½ hp | 1900 lb |
| ERGO 3660 PRC-6 | 123101 | 2 standard | DCM-200 | 1½ hp | 2010 lb |
| ERGO 3660 PRC-6, CDC | 123151 | 2 standard | CDC-6 | 1½ hp | 2130 lb |
| ERGO 3660 PRC-9 | 123121 | 2 standard | DCM-200A | 2 hp | 2045 lb |
| ERGO 3660 PRC-9, CDC | 123152 | 2 standard | CDC-9 | 2 hp | 2165 lb |
| ERGO FaStrip® 3660 PRC-9 | 123921 | 2 standard | DCM-200A | 2 hp | 2120 lb |
| ERGO FaStrip® 3660 PRC-9, CDC | 123951 | 2 standard | CDC-9 | 2 hp | 2240 lb |
| ERGO 3696 TWIN PRC-4, | 124101 | 2 standard | (2) DCM-80A | (2) 1 hp | 2975 lb |
| ERGO 3696 TWIN PRC-6 | 124121 | 2 standard | (2) DCM-200 | (2) 1½ hp | 2900 lb |
| ERGO 3696 TWIN, PRC-6, CDC | 124151 | 2 standard | (2) CDC-6 | (2) 1½ hp | 3500 lb |
| ERGO 4848 PRC-6 | 122101 | 2 standard | DCM-200 | 1½ hp | 1735 lb |
| ERGO 4848 PRC-6, CDC | 122151 | 2 standard | CDC-6 | 1½ hp | 2035 lb |
| ERGO 4848 PRC-9 | 122121 | 2 standard | DCM-200A | 2 hp | 1775 lb |
| ERGO 4848 PRC-9, CDC | 122152 | 2 standard | CDC-9 | 2 hp | 2075 lb |
| ERGO FaStrip® 4848 PRC-9 | 122921 | 2 standard | DCM-200A | 2 hp | 1800 lb |
| ERGO FaStrip® 4848 PRC-9, CDC | 122951 | 2 standard | CDC-9 | 2 hp | 2050 lb |
| ERGO 6060 PRC-9 | 125121 | 2 standard | DCM-200A | 2 hp | 2049 lb |
| ERGO 6060 PRC-9, CDC | 125152 | 2 standard | CDC-9 | 2 hp | 2168 lb |
| ERGO FaStrip® 6060 PRC-9 | 125921 | 2 standard | DCM-200A | 2 hp | 2074 lb |
| ERGO FaStrip® 6060 PRC-9, CDC | 125951 | 2 standard | CDC-9 | 2 hp | 2193 lb |

Notes to Specifications: All cabinet sizes feature 14 gauge steel construction with the exception of 7272 cabinets which are 11 gauge. Cabinets with a single door open on the right-hand side. (An additional left-hand door is optional.) For information on **electricals**, **reclaimer sizing** and **dust collection**, see "**Application Considerations**" on page 19.

Meaning of Model Numbers and Letter Codes: The first two numbers indicate nominal cabinet depth in inches. The next two or three numbers show nominal cabinet width. Letters following model numbers mean the following: S = Suction; P = Pressure; B = Bag; C = Collector; R = Reclaimer. Numerals following letter codes show reclaimer-ventilation capacity in hundreds of cubic feet per minute at 6" static pressure. (1,200 cfm units are rated at 10" static pressure.) **TWIN** indicates a two-cabinet system. (Example: a 60120 TWIN consists of two 6060 cabinets) Letter codes in parentheses translate as follows: **CDC** = Cartridge Dust Collector; **ERGO** = Ergo-Blast model; **FS** = FaStrip model.

Pro-Finish® Cabinet Specifications (Suction Systems, Standard)

| MODEL DESCRIPTION | PART NUMBER | NUMBER OF DOORS | DUST COLLECTION | BLOWER MOTOR | SHIPPING WEIGHT |
|-----------------------|----------------|--------------------|--------------------|-----------------|--------------------|
| 2636 S | 142011 | 1 standard | — | — | 370 lb |
| 2636 SB | 102010 | 1 standard | Dust bag | 1 hp | 421 lb |
| 2636 SC | 102011 | 1 standard | DCM-80A | 1 hp | 671 lb |
| 2636 SR-4 | 142001 | 1 standard | — | | 400 lb |
| 2636 SRB-4 | 102000 | 1 standard | Dust bag | 1 hp | 451 lb |
| 2636 SRC-4 | 102001 | 1 standard | DCM-80A | 1 hp | 701 lb |
| 2636 SR-6 | 142021 | 1 standard | — | — | 440 lb |
| 2636 SRC-6 | 102021 | 1 standard | DCM-200 | 1½ hp | 1130 lb |
| 2636 SRC-6, CDC | 102041 | 1 standard | CDC-6 | 1½ hp | 1250 lb |
| 3648 S | 143011 | 2 standard | — | | 490 lb |
| 3648 SB | 103010 | 2 standard | Dust bag | 1 hp | 539 lb |
| 3648 SC | 103011 | 2 standard | DCM-80A | 1 hp | 789 lb |
| 3648 SR-4 | 143001 | 2 standard | — | <u> </u> | 520 lb |
| 3648 SRB-4 | 103000 | 2 standard | Dust bag | 1 hp | 565 lb |
| 3648 SRC-4 | 103001 | 2 standard | DCM-80A | 1 hp | 819 lb |
| 3648 SR-6 | 143021 | 2 standard | | | 560 lb |
| 3648 SRC-6 | 103021 | 2 standard | DCM-200 | 1½ hp | 1266 lb |
| 3648 SRC-6, CDC | 103051 | 2 standard | CDC-6 | 1½ hp | 1575 lb |
| 3660 S | 146011 | 2 standard | <u> </u> | <u> </u> | 940 lb |
| 3660 SC | 126011 | 2 standard | DCM-200 | 1½ hp | 1670 lb |
| 3660 SR-6 | 146001 | 2 standard | — | | 965 lb |
| 3660 SRC-6 | 126001 | 2 standard | DCM-200 | 1½ hp | 1695 lb |
| 3660 SRC-6, CDC | 126051 | 2 standard | CDC-6 | 1½ hp | 1815 lb |
| 3660 SR-9 | 146021 | 2 standard | _ | | 1000 lb |
| 3660 SRC-9 | 126021 | 2 standard | DCM-200A | 2 hp | 1730 lb |
| 3660 SRC-9, CDC | 126052 | 2 standard | CDC-9 | 2 hp | 1850 lb |
| 3674 SRC-9 | 128021 | 2 standard | DCM-200A | 2 hp | 1760 lb |
| 3674 SRC-9 (CDC) | 128051 | 2 standard | CDC-9 | 2 hp | 2060 lb |
| 3696 TWIN SB | 106010 | 2 standard | (2) Dust bags | (2) 1 hp | 1078 lb |
| 3696 TWIN SC | 106011 | 2 standard | (2) DCM-80A | (2) 1 hp | 1578 lb |
| 3696 TWIN SRB-4 | 106000 | 2 standard | (2) Dust bags | (2) 1 hp | 1138 lb |
| 3696 TWIN SRC-4 | 106001 | 2 standard | (2) DCM-80A | (2) 1 hp | 1638 lb |
| 3696 TWIN SRC-6 | 106021 | 2 standard | (2) DCM-200 | (2) 1½ hp | 2632 lb |
| 3696 TWIN SRC-6, CDC | 106051 | 2 standard | (2) CDC-6 | (2) 1½ hp | 3232 lb |
| 4848 S | 144011 | 2 standard | | | 670 lb |
| 4848 SC | 104011 | 2 standard | DCM-200 | 1½ hp | 1400 lb |
| 4848 SR-6 | 144001 | 2 standard | | | 695 lb |
| 4848 SRC-6 | 104001 | 2 standard | DCM-200 | 1½ hp | 1423 lb |
| 4848 SRC-6, CDC | 104051 | 2 standard | CDC-6 | 1½ hp | 1545 lb |
| 4848 SR-9 | 144021 | 2 standard | _ | | 730 lb |
| 4848 SRC-9 | 104021 | 2 standard | DCM-200A | 2 hp | 1458 lb |
| 4848 SRC-9, CDC | 104052 | 2 standard | CDC-9 | 2 hp | 1580 lb |
| 6060 S | 145011 | 2 standard | _ | — | 939 lb |
| 6060 SC | 105011 | 2 standard | DCM-200A | 2 hp | 1669 lb |
| 6060 SR-9 | 145001 | 2 standard | — | | 1006 lb |
| 6060 SRC-9 | 105001 | 2 standard | DCM-200A | 2 hp | 1736 lb |
| 6060 SRC-9, CDC | 105051 | 2 standard | CDC-9 | 2 hp | 1856 lb |
| 60120 TWIN SC | 107011 | 2 standard | DCM-200A | (2) 2 hp | 3338 lb |
| 60120 TWIN SRC-9 | 107001 | 2 standard | DCM-200A | (2) 2 hp | 3472 lb |
| 60120 TWIN SRC-9, CDC | 107051 | 2 standard | CDC-9 | (2) 2 hp | 4072 lb |
| 7272 SRC-9 | 127001 | 1 standard | DCM-200A | 2 hp | 2700 lb |
| 7272 SRC-12 | 127023 | 1 standard | DCM-2008 | 5 hp | 2800 lb |
| 7 27 2 JAC 12 | 127025 | i standaru | | קורכ | 2000 10 |

See Page 16 for "Notes to Specifications" and "Meaning of Model Numbers and Letter Codes."

Pro-Finish® Cabinet Specifications (Suction Systems, Ergo-Blast)

| MODEL DESCRIPTION | PART NUMBER | NUMBER OF DOORS | DUST COLLECTION | BLOWER MOTOR | SHIPPING WEIGHT |
|---------------------------|----------------|--------------------|--------------------|-----------------|--------------------|
| ERGO 2636 SRC-4 | 120001 | 1 standard | DCM-80A | 1 hp | 800 lb |
| ERGO 3648 SRC-4 | 121001 | 2 standard | DCM-80A | 1 hp | 920 lb |
| ERGO 3648 SRC-6 | 121021 | 2 standard | DCM-200 | 1½ hp | 1365 lb |
| ERGO 3648 SRC-6, CDC | 121051 | 2 standard | CDC-6 | 1½ hp | 1665 lb |
| ERGO 3660 SRC-6 | 123001 | 2 standard | DCM-200 | 1½ hp | 1797 lb |
| ERGO 3660 SRC-6, CDC | 123051 | 2 standard | CDC-6 | 1½ hp | 1917 lb |
| ERGO 3660 SRC-9 | 123021 | 2 standard | DCM-200A | 2 hp | 1832 lb |
| ERGO 3660 SRC-9, CDC | 123052 | 2 standard | CDC-9 | 2 hp | 1952 lb |
| ERGO TWIN 3696 SRC-4, | 124001 | 2 standard | (2) DCM-80A | (2) 1 hp | 1840 lb |
| ERGO TWIN 3696 SRC-6 | 124021 | 2 standard | (2) DCM-200 | (2) 1½ hp | 2850 lb |
| ERGO TWIN 3696 SRC-6, CDC | 124051 | 2 standard | (2) CDC-6 | (2) 1½ hp | 3450 lb |
| ERGO 4848 SRC-6 | 122001 | 2 standard | DCM-200 | 1½ hp | 1525 lb |
| ERGO 4848 SRC-6, CDC | 122051 | 2 standard | CDC-6 | 1½ hp | 1825 lb |
| ERGO 4848 SRC-9 | 122021 | 2 standard | DCM-200A | 2 hp | 1566 lb |
| ERGO 4848 SRC-9, CDC | 122052 | 2 standard | CDC-9 | 2 hp | 1860 lb |
| ERGO 6060 SRC-9 | 125021 | 2 standard | DCM-200A | 2 hp | 1836 lb |
| ERGO 6060 SRC-9, CDC | 125052 | 2 standard | CDC-9 | 2 hp | 1956 lb |

Notes to Specifications: All cabinet sizes feature 14 gauge steel construction with the exception of 7272 cabinets which are 11 gauge. Cabinets with a single door open on the right-hand side. (An additional left-hand door is optional.) For information on **electricals**, **reclaimer sizing** and **dust collection**, see "**Application Considerations**" on page 19.

Meaning of Model Numbers and Letter Codes: The first two numbers indicate nominal cabinet depth in inches. The next two or three numbers show nominal cabinet width. Letters following model numbers mean the following: S = Suction; P = Pressure; B = Bag; C = Collector; R = Reclaimer. Numerals following letter codes show reclaimer-ventilation capacity in hundreds of cubic feet per minute at 6" static pressure. (1,200 cfm units are rated at 10" static pressure.) **TWIN** indicates a two-cabinet system. (Example: a 60120 TWIN consists of two 6060 cabinets) Letter codes in parentheses translate as follows: **CDC** = Cartridge Dust Collector; **ERGO** = Ergo-Blast model; **FS** = FaStrip model.

Application Considerations

To specify the proper equipment for your application, you should set specific objectives and choose the equipment and materials to achieve these goals.

If you are replacing existing equipment or adding blast cabinets to meet growing needs, you are probably familiar with the benefits of air-blasting, the best media to use, and the type of system you want. However, if you have a new blasting application, you and your Empire distributor should review the following outline before making a final selection.

Cabinet Sizing

Prior to selecting a cabinet, determine the critical characteristics of your workpiece. These factors should include: part size (will the workpiece fit into the cabinet?), accessibility of surfaces to be blasted, orientation requirements, desired operating procedures (manual or automatic), and masking considerations. Normally, a sketch of the part within the cabinet is helpful in determining the most functional cabinet size.

Surface Requirements

To achieve desired results, there is no substitute for actual sample blasting, through which realworld parameters can be defined. The key factors in achieving the "right" surface characteristics are: coverage, duration, pressure and media—all of which are interrelated. Nevertheless, the best final results normally start with the "right" media. General descriptions and characteristics of the most commonly used blast media are provided on the back cover of this catalog.

Generally, fine media do faster work on lighter jobs. Heavy media impact harder for deeper etching or increased "arc heights," but may lodge in small recesses. Before making a final choice about media, determine how many times the material can be recycled and how reclamation affects your operating costs.

Production Rate

The many variables affecting production rates include: blast system type (suction or pressure); blast media (type, size and quality); blast pressure; distance and angle of guns/nozzles in relation to the workpiece; part size; and operator capabilities. Again, sample blasting is the only true test, but if higher production rates are your objective, take a look at Pro-Finish pressure systems and Ergo-Blast configurations for manual work—or consider automation options.

Reclaimer and Dust Collector

Most Pro-Finish® systems are available with two ventilation options. Dusty, heavy-use or multiple-gun applications usually require additional ventilation for optimum operator visibility and extended equipment life. Dense media require larger blowers for adequate conveying. (See **"Media/Reclaimer Compatibility"** table on page 10.) Systems with exposed dust bags or without reclaimers are not recommended for production applications.

Utilities

Your Pro-Finish system requires electricity and compressed air. Be sure the system you select interfaces properly with the electrical sources in the plant where it will be installed. Standard pre-wiring for 1 horsepower motors is: 115 volt, 60 hertz, 1 phase, 20 amp; for 1½ horsepower motors: 230 volt, 60 hertz, 1 phase, 15 amp; for 2 horsepower motors: 230 volt, 60 hertz, 1 phase, 17 amp; for 5 horsepower motors: 230 volt, 60 hertz, 3 phase, 20 amp. These numbers represent full-amp draws for the dust collector and basic cabinet. Three-phase electrical upgrades can be supplied complete with control transformer for one-source power connection. Threephase upgrades are also available with more economical dual source. Because field re-wiring can be costly, it is not advisable.

Options

Tailor the system to your application by choosing standard options. If harsh media is selected, you will want to protect your equipment with Empire's extended-wear components. For light or fine media (200 mesh or less), or humid conditions, consider a vibrating screen and automatic Sure-Flo regulator. When using plastics or walnut-shells, FaStrip® cabinets are recommended.

Review all standard factory options as they relate to material handling, productivity and serviceability with an eye toward getting maximum value from your Pro-Finish system. Because these systems are modular, you can select only the equipment needed. Further upgrading in the field is normally a simple procedure.

Automation

You can customize a Pro-Finish cabinet to run without an operator by incorporating a powered turntable and gun holder. More sophisticated approaches include multiple blast guns, oscillators and a timer package.

Almost every automated Pro-Finish application is different so care should go into visualizing how the part will be processed. If an out-of-round workpiece is rotated on a turntable, areas that come closer to a stationary blast source will experience greater intensity. In addition, recessed regions may be missed and interior surfaces may be hard to reach with standard equipment.

Multiple guns/nozzles not only provide faster cycles through increased coverage, but also "see" more facets on multi-sided parts. Consequently, most automated systems employ multiple guns or nozzles.

Manual touch-up is offered with Pro-Finish systems involving automation because, unlike the human eye, mechanical devices cannot sense where extra blasting might be required. Touch-up can also eliminate the effect of "barberpoling," which occurs when blast oscillation is slightly faster than part rotation.

One of the final "components" to choose in your automated Pro-Finish system is the cabinet. Picture how much room is needed inside the working enclosure—not only for the workpiece, but also for the guns/nozzles, hoses and all moving mechanisms. Be careful not to under size the cabinet.

Pro-Finish® Surface-Treatment, Cleaning and Finishing Capabilities

The selections of finishes are virtually unlimited and so are the applications.

FINISHING

• Add matte or satin finish, or decorative frost • Remove glare or imperfections • Blend marks

• Hone and burnish • Mark identifications

CLEANING & REMOVAL

• Casting material • Flashing • Burrs • Rust • Oxidation

SURFACE TREATMENT & PREP

• Strengthen • Add fatigue resistance • Improve wear properties

• Reduce design weight, porosity, friction or susceptibility to corrosion • Improve lubrication

• Expose flaws for inspection • Etch for bonding and adhesion • Cut

| | Glass Bead | Ceramic Shot | Stainless Cut Wire | Steel Shot | Steel Grit | Aluminum Oxide | Silicon Carbide | Garnet | Crushed Glass | Plastic Media | Agri Shell |
|--------------------------------|---------------|-----------------|-----------------------|---------------|---------------|-------------------|--------------------|--------|------------------|------------------|---------------|
| Finishing | YES | YES | YES | YES | YES | YES | YES | YES | YES | NO | NO |
| Cleaning/Removal | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |
| Peening | YES | YES | YES | YES | NO | NO | NO | NO | NO | NO | NO |
| Surface Profiling (Etch) | NO | NO | YES | NO | YES | YES | YES | NO | YES | YES | YES |
| Working Speed | MED | MED | MED | MED | MED-HIGH | HIGH | VERY-HIGH | LOW | HIGH | MED-HIGH | LOW-HIGH |
| Recyclability | HIGH-LOW | HIGH | HIGH | VERY-HIGH | VERY-HIGH | MED-HIGH | MED-LOW | NONE | MED-LOW | MED | LOW |
| Probability of Metal Removal | VERY LOW | VERY LOW | VERY LOW | VERY LOW | MED | MED-HIGH | MED-HIGH | NONE | LOW-MED | VERY LOW | VERY LOW |
| Hardness, MOH Scale | 5.5 | 7 | 6-7.5 | 6-7.5 | 8-9 | 8-9 | 9 | 2.5 | 5.5 | 3-4 | 1-4.5 |
| (Rockwell RC) | | (57-63) | (35-55) | (20-66) | (40-66) | | | | | | |
| Bulk Density (lb/cu. ft.) | 100 | 150 | 280 | 280 | 230 | 125 | 95 | 60 | 100 | 45-60 | 40-80 |
| Mesh Size | 30-440 | 8-46 | 20-62 | 8-200 | 10-325 | 12-325 | 36-220 | 70-220 | 30-400 | 12-80 | MANY |
| Typical Blast Pressures (psi) | 20-55 | 20-90 | 20-90 | 20-90 | 20-90 | 20-90 | 20-90 | 40-80 | 20-50 | 20-60 | 10-40 |
| Shapes: ● Spherical; △ Angular | • | • | • | • | Δ | Δ | Δ | Δ | Δ | • or ∆ | Δ |

Media Guide

Notes:

Above information is intended as a general reference guide. Consult your authorized Empire distributor for specific media recommendations.

1) Sodium bicarbonate must be treated with a flow agent.

2) Do not use silica sand in a hand cabinet.

3) See Media/Reclaimer Compatibility chart on page 10 for mesh sizes that are compatible with reclaimer systems.

Warranty: Three Year Limited

Consult Empire for details. Dimensions and specifications will vary with options and accessories purchases. INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

NEVER USE SILICA SAND IN ANY EMPIRE EQUIPMENT.



Empire Abrasive Equipment, 2101 W. Cabot Blvd., Langhorne, PA 19047-1893

EMPERE ABRASIVE EQUIPMENT Call: 215.752.8800 • Fax: 215.752.9373 • Email: Airblast@empire-airblast.com

[•] Chemical impurities • Paint • Coatings • Sealants and adhesives • Carbon deposits • Scale • Excess brazing