



Value. Flexibility. Performance.

Vantage



Vantage™ RCM Powder Spray Booth



Vantage™

RCM Powder Spray Booth

Innovative, patent-pending design adds features and functionality in a compact and easy to install, economical powder booth with color-change capability and fluidized reclaim for continuous production operations.

The Vantage RCM powder booth* is an economical, yet non-compromising solution for basic powder coating operations requiring single or multiple color capability with fluidized powder reclaim in continuous production situations. The innovative booth design positions the final filters pre-fan, dramatically reducing its overall footprint, while providing easier filter replacement and reduced risk of powder reaching fan and motor. This and other enhancements and options provide even more capability at a surprisingly affordable price, making the RCM booth ideal for job shops, first-time captive powder coating operations and companies wanting to expand their present powder coating production capacity and flexibility.

Fast, Easy Installation.

With the Vantage RCM booth, you can virtually take delivery one day and start powder coating the next. Completely pre-assembled and tested before shipment, the booth and removable filter/collector module are simply rolled off a

specially designed delivery truck and into position. The booth's special transport casters are then removed and replaced with either leveling feet or optional roll-on/off casters, and the filter module is rolled into place, leveled and latched to the booth. The conveyor slot baffles are then attached, the electrical and pneumatic connections made, and you are ready for production.

The removable roll-on/off filter/collector module design of the Vantage RCM booth permits quick color change with fluidized recovery of reclaim powder.



Fast, Easy Color Change.

The Vantage RCM booth is designed for fast, easy color changes with operating convenience. The removable roll-away filter/collector module is easily moved off-line for convenient access and storage, while another collector is rolled into place with a different color powder.

Durable, Quality Construction.

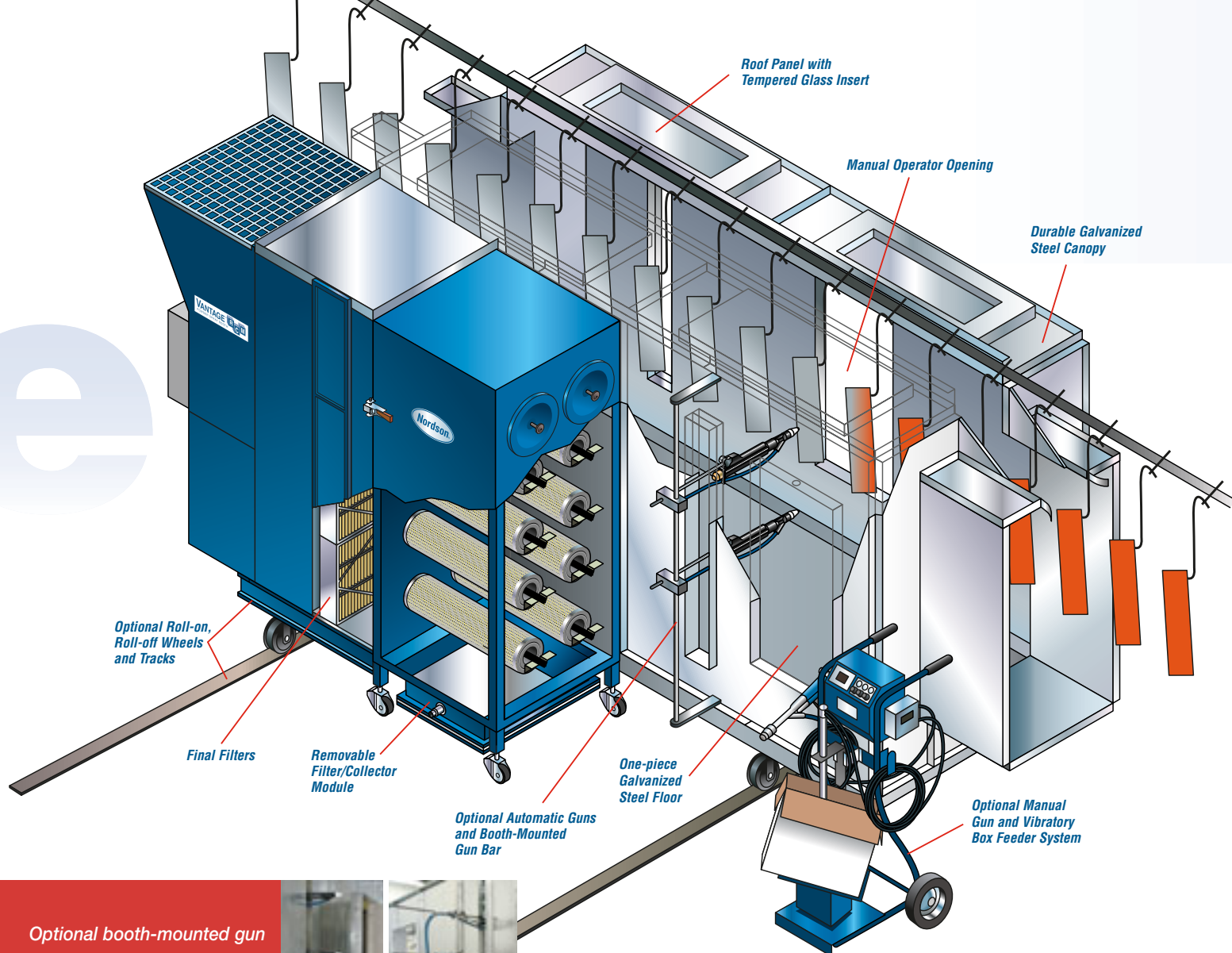
The Vantage RCM booth offers superior construction, stability, fit and finish compared to competitive models. The booth framework, fan and final filter sections, and filter/collector module are powder coated, while the booth floor features an exceptionally sturdy plywood base covered with seamless, high-quality galvanized steel. The booth



Innovative, integrated fan and final filter design dramatically reduces the overall booth footprint and height for greater flexibility in booth location and roll-on/ roll-off applications.

canopy is also rugged, high-quality galvanized steel. The roof includes tempered glass panels, and comes with the framework ready to accept optional, "rated" fluorescent light fixtures. The booth canopy and roof panels are also available in optional stainless steel, polypropylene and clear Lexan® materials.

*Patent applied for.
Lexan is a registered trademark of General Electric.



Optional booth-mounted gun bars require less floor space for better operating flexibility.



Flexible, Modular Design.

The Vantage RCM booth is available in a standard 5 ft. width by 9 ft., 12 ft. and 15 ft. lengths, in combinations of manual only or manual and automatic spray stations. Choices of either 7 ft. or 8 ft. canopy heights are also standard. The canopy panels are sized to accommodate manual and automatic gun openings, optional light fixtures, or easy repositioning of manual and automatic gun spray stations, if necessary, to meet specific, or changing, application requirements.

Custom-engineered Vantage RCM booths, using the same modular filter/collector module, fan and final filter sections, are also available for selected applications where additional widths or heights are necessary to accommodate larger part profiles. An 11,000 CFM version is also available when, based upon application requirements, additional airflow capacity is required.

The low-profile base puts the booth floor at only 12 inches from the ground, eliminating the need for an operator platform. An optional one-step operator platform is available for use with 8 ft. high canopies, which in some situations may permit easier adaptation to existing conveyor height.

Increased Operating Flexibility.

The Vantage RCM booth offers a higher CFM capacity (8,000 CFM) than other models for a given booth size, permitting use with more guns and providing ample capacity to contain powder through a wider range of applications. The booth can be configured for use with up to a combined total of 10 powder spray guns, either manual or automatic, and up to four operator stations, depending upon booth length.





The new Econo-Coat® manual gun and vibratory box feeder system is an ideal complement to the Vantage RCM powder booth for economical, high-performance powder coating and fast color change capability.

Improved Efficiency and Proven Cartridge-Filter Technology.

Nordson cartridge-filter powder recovery systems do not require expensive ductwork and explosion venting. Air used to contain and recover powder overspray passes through primary cartridge filters and final filters, and is then returned to the plant as clean air for improved operating efficiency.

The Vantage RCM booth uses polyester primary cartridge filters for maximum durability and performance with minimal powder waste. The primary filters are cleaned using a reverse-pulse of air. The transfer pump returns reclaimed powder to the delivery hopper for high material utilization and maximum operating efficiency.

Options for Increased Functionality and Economy.

Options for the RCM filter/collector module include venting access for an external powder hopper, as well as convenient, economical "pump direct to guns" capability to supply manual guns, for example, eliminating the need for separate powder hoppers in some applications. With the more compact Vantage RCM booth design, the booth roll-on/off feature is a much more economical option, and can either be specified with the booth or added later as a field upgrade.

Optional roll-on, roll-off feature facilitates multiple booth operation and off-line cleaning and maintenance.



The new RCM main control panel will accommodate power/control for optional booth lights, powder spray gun controls and flame detection equipment, all with the appropriate interlocks to ensure safe operation. Optional level sensor and sieve operating controls are also available in the main control panel, either with the original booth or added later as field upgrades.

Additional Equipment.

The Vantage RCM booth is designed for use with other Nordson equipment, such as manual powder spray guns and controls, and mobile hopper and box feeder systems.

It can also be used with automatic guns and controls along with required flame detection equipment. The Vantage RCM booth, together with optional Nordson powder application equipment, provide versatile, economical, high-performance operation to meet a variety of powder coating requirements.

Features and Benefits

- **Quick color change** - removable, roll away filter/collector module speeds color changes for increased production.
- **Fast, easy installation** - booth and filter/collector module simply roll off delivery truck and into position, for minimal final installation and set-up.
- **Rugged, high-quality construction and finish** - powder coated steel structure with high-quality galvanized canopy and floor for exceptional durability and long life.
- **Fluidized powder reclaim** - saves powder and improves operating efficiency.
- **Modular wall-panel design** - standard panels enable fast, easy replacement or spray gun station reconfiguring, if necessary.
- **Higher CFM capacity** - standard 8,000 CFM model permits use of more guns and still provides ample capacity to contain powder over a wide range of applications. An 11,000 CFM model is also available for custom-engineered powder systems.
- **Main control panel meets UL 508 via CSA NRTL/C** - assures proper operating safety.
- **Low-profile booth base** - eliminates need for operator platforms.
- **Polyester cartridge filters** - provide longer life, and minimize powder waste for better material utilization.
- **Optional roll-on/off feature** - provides capability to move booth on- and off-line to meet specific production requirements.
- **Pump direct from module option** - combined with optional pumps, supplies powder to manual guns without an external hopper.
- **Several optional booth enhancements available** - rated light fixtures, flame detection equipment (required for automatic spray gun operation), additional filter/collector modules and a one-step operator platform are available for use with the Vantage RCM booth to meet specific application needs.



The control unit provides all control and monitoring functions for the RCM booth as well as interlocked power to optional lights, spray gun controls and flame detection equipment.



Pump direct from filter/collector module option can supply up to four powder spray guns without an external powder hopper.



Vantage™ RCM Specifications and Utility Requirements

Specifications

Air Consumption, 20 SCFM

(Fluidizing and reverse-pulse air)

Electrical, 10 Hp Motor

208V (32 Amps), 230V (30 Amps),
380V (18 Amps), 460V (16 Amps),
575V (12 Amps)

Electrical, Controls and Accessories

110V (10 Amps)

Canopy Size Feet (meters)	Part Opening Feet (meters)	Manual Openings	Auto Slots	SEE FIGURE
Width x Height x Length	Width x Length			
5 x 7 x 9 (1.5 x 2.1 x 2.7)	3 x 5 (0.9 x 1.5)	2	0	A
5 x 7 x 9 (1.5 x 2.1 x 2.7)	3 x 5 (0.9 x 1.5)	1	1	B
5 x 7 x 12 (1.5 x 2.1 x 3.7)	3 x 5 (0.9 x 1.5)	3	0	C
5 x 7 x 12 (1.5 x 2.1 x 3.7)	3 x 5 (0.9 x 1.5)	2	1	D
5 x 7 x 12 (1.5 x 2.1 x 3.7)	3 x 5 (0.9 x 1.5)	1	2	E
5 x 7 x 15 (1.5 x 2.1 x 4.6)	3 x 5 (0.9 x 1.5)	4	0	F
5 x 7 x 15 (1.5 x 2.1 x 4.6)	3 x 5 (0.9 x 1.5)	2	2	G
5 x 8 x 9 (1.5 x 2.4 x 2.7)	3 x 6 (0.9 x 1.8)	2	0	A
5 x 8 x 9 (1.5 x 2.4 x 2.7)	3 x 6 (0.9 x 1.8)	1	1	B
5 x 8 x 12 (1.5 x 2.4 x 3.7)	3 x 6 (0.9 x 1.8)	3	0	C
5 x 8 x 12 (1.5 x 2.4 x 3.7)	3 x 6 (0.9 x 1.8)	2	1	D
5 x 8 x 12 (1.5 x 2.4 x 3.7)	3 x 6 (0.9 x 1.8)	1	2	E
5 x 8 x 15 (1.5 x 2.4 x 4.6)	3 x 6 (0.9 x 1.8)	4	0	F
5 x 8 x 15 (1.5 x 2.4 x 4.6)	3 x 6 (0.9 x 1.8)	2	2	G

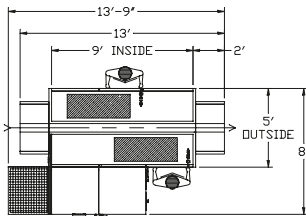


FIG. A

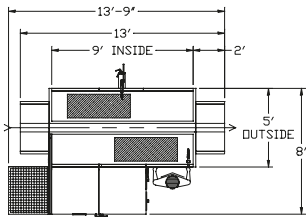


FIG. B

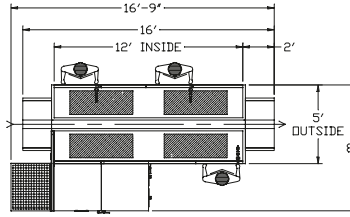


FIG. C

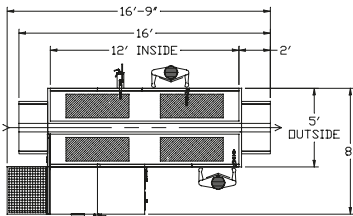


FIG. D

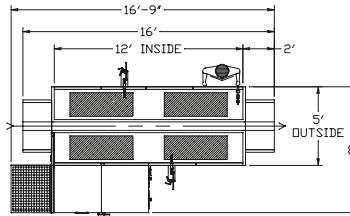


FIG. E

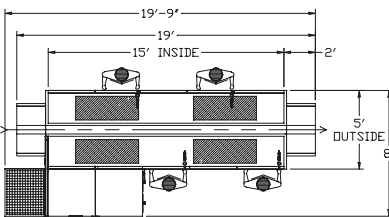


FIG. F

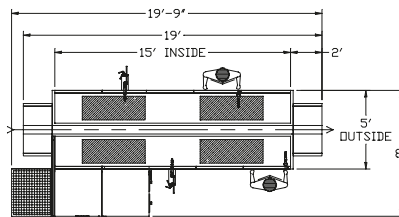
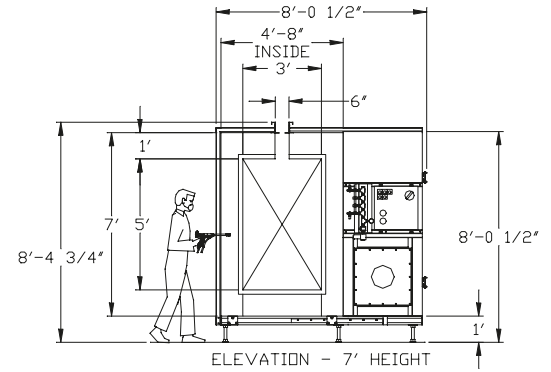
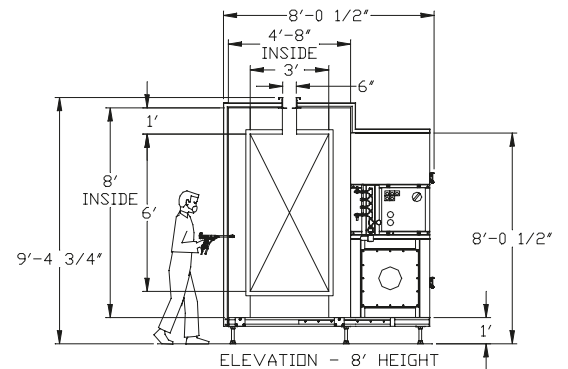


FIG. G



ELEVATION - 7' HEIGHT



ELEVATION - 8' HEIGHT



For more information on Vantage™ equipment, talk
with your Nordson representative or visit our website at

www.nordson.com

The Nordson value-line of Vantage systems and equipment is designed and engineered to meet reclaim or non-reclaim, fast color change powder coating requirements.

Vantage Automatic Gun Control System

Engineered for simple, yet highly effective control of automatic powder spray applications for maximum transfer efficiency and finish quality.



Vantage FCM (Fixed Collector Module) Booth

Designed for manual and automatic conveyORIZED and non-conveyORIZED applications with color change and powder reclaim capability.

*Nordson reserves the right to make design changes to products to improve their function.
These changes may occur between printings.*

For more information, talk with your Nordson representative or contact your Nordson regional headquarters office.

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