

# GENERAL PURPOSE BOOTHS

GFS' General Purpose Paint Booths are high-quality, cost-effective solutions for industrial manufacturers and businesses that need to paint equipment, utility vehicles and trucks that are too large for traditional automotive refinish booths but too small for our Large Equipment Paint Booth line.

Pre-engineered models and standard options are fully ETL and ETL-C listed, and meet or exceed industry safety standards. They feature excellent lighting, airflow and filtration for achieving high-quality paint finishes. Precision engineered and manufactured with durable materials, General Purpose Booths are designed to last many years of use.

## NON-PRESSURIZED VS. PRESSURIZED BOOTHS

Customers are able to select either non-pressurized or pressurized pre-engineered General Purpose Paint Booths, depending on their configuration needs.

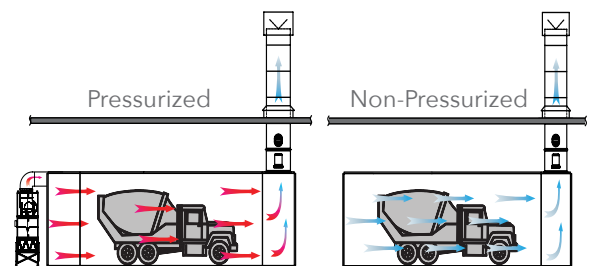
Non-pressurized booths typically use an exhaust fan to draw shop air into the booth through filtered product doors or a filtered ceiling. After the air flows through the booth, it is filtered and exhausted outside. Non-pressurized booths cost less to install and take up less cubic feet of shop space.

Pressurized booths use an air make-up unit or an intake fan to push shop or outside air into the booth through an intake chamber or a full-length ceiling plenum. Pressurized booths provide better control over the temperature and pressure inside the booth, and allow for features like automatic booth balancing and flash and cure modes.

## HIGH-PERFORMANCE AIRFLOW

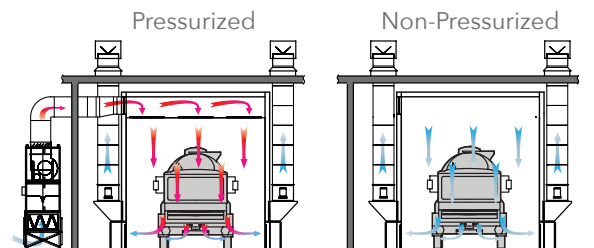
### CROSSDRAFT

The simplest, most cost-effective configuration, air flows horizontally through a crossdraft booth, parallel to the floor and over the product. Crossdraft airflow starts at the front of the booth, with air entering the booth through either filtered products doors (non-pressurized booths) or an intake chamber (pressurized booths). Air exits the booth through an exhaust plenum located at the rear of the booth.



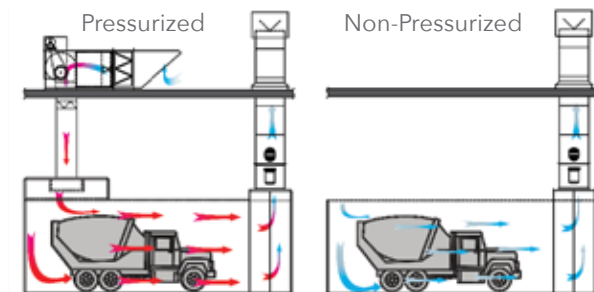
### SIDE DOWNDRAFT

Side downdraft booths are an economical solution for shops that aren't able to install a pit. Air comes into the booth through a full-length, filtered ceiling plenum, and flows downward over the product. When air reaches the floor, it is pulled into floor-level filtered exhaust plenums on both sides of the booth.



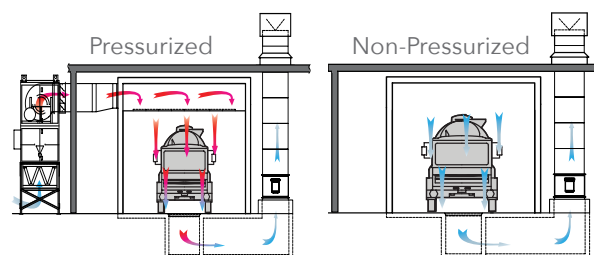
### SEMI-DOWNDRAFT

The semi-downdraft booth is a hybrid combining features of both crossdraft and downdraft booths. Air is introduced to the booth through the ceiling in the first 25-30 percent of the booth. Then it's pulled across the working chamber, over the vehicle and into the filtered exhaust chamber at the booth rear.



### DOWNDRAFT

Generally accepted as the best airflow style, downdraft booths do an excellent job controlling overspray and contamination. Air enters the booth through a full-length, filtered ceiling plenum. From there, air flows vertically over the product and into the filtered exhaust pit in the floor.



# GENERAL PURPOSE BOOTHS

## BOOTH FEATURES

### PREMIUM HIP LIGHTING

Designed and manufactured by GFS for optimal brightness, General Purpose Booths feature premium hip light fixtures for precise, complete lighting with minimal shadows. Light fixtures are ETL and ETL-C listed, and come complete with T8 ballasts and LED lamps.

### FANS & MOTORS

High-powered fans and motors supply optimal airflow through the paint booth, creating a cleaner environment for a better paint job. Each General Purpose Paint Booth includes a non-sparking, tube axial exhaust fan(s) with belt guards and duct connector ring, along with a UL/CUL and CSA recognized three-phase, TEFC, tri-voltage motor.

### BOOTH DOORS

Swing-type product doors (either filtered or solid, depending on airflow and pressurization) and at least one personnel door come standard with each pre-engineered General Purpose Paint Booth. Doors feature heavy-duty hinges with plate steel and replaceable brass brushings. Hinges guarantee long-lasting performance with no sagging.

### EASY FILTER REPLACEMENT

GFS Enclosed Finishing Paint Booths come complete with a full set of high-efficiency, 20-by-20-inch GFS Wave exhaust and tacky intake filters. Installing and replacing filters is easy with the grid system; you can avoid waste and save cost by replacing only the filter squares that need changing. An included manometer indicates when filters need to be replaced.

### FULLY ETL AND ETL-C LISTED

Pre-engineered General Purpose models and options are fully ETL and ETL-C listed, ensuring that the entire booth complies with applicable safety codes and meets performance requirements. ETL listing facilitates successful inspections and demonstrates that General Purpose Booths have completed independent, third-party review. GFS works with these third-party agencies to ensure the safety of our General Purpose Booths and components.

### CONTROL PANELS

A UL/CUL listed electromechanical or Velocity® control panel is available with each General Purpose Paint Booth, although highly customized booths may require a custom control panel. Electromechanical control panels are suited for non-pressurized booths, and are used to operate booth exhaust, safety interlocks and lights. The Velocity control panel offers additional features, including an Allen-Bradley touch screen interface, management of spray, cure and flash modes and auto-balancing on pressurized booths.

### SAFETY FEATURES

To ensure the safety of painters and equipment, a manometer and air solenoid valve are included with all General Purpose Booths to maintain an optimal working environment inside the booth. Manometers monitor overspray buildup on exhaust filters, while air solenoid valves prevent spraying in the booth when fans are off or a light cover is open. Limit switches come standard on pressurized booths to safely shut down spray guns when the booth doors are open.



# GENERAL PURPOSE BOOTHS

## BOOTH OPTIONS

### PRE-COAT WHITE

18-gauge sheet steel with a white powder-coated finish are available as pre-engineered options for better light reflectivity and improved resistance to humidity and corrosion.

### AIR MAKE-UP UNIT (AMU)

Capable of a 100-degree temperature rise and cure mode for pressurized booths, AMUs provide an economical source of replacement air to the booth and building. All GFS air make-up units are ETL and ETL-C listed and designed to meet all NFPA 86 requirements. For additional AMU information, refer to the Air Replacement Unit section on page 50.

### LIGHTING OPTIONS

Six-tube LED light fixtures with T8 ballasts are available to provide additional lighting in critical areas without additional installation costs.

### AIR PROVING SWITCH

Air proving switches automatically measure air pressure in the exhaust ductwork during booth operation to ensure that the exhaust fan is moving air and operating as expected. Air proving switches function as an additional safety check to ensure that the percentage of flammable vapors in the air remains within safe limits.

**Note:** Air proving switches are required for all booths installed in Canada.

### BOOTH DOOR OPTIONS

Product door configurations such as roll-up, two-panel swing, bi-fold or drive-thru are available to accommodate customer space restrictions and support specific painting and finishing workflows. Additional personnel doors can be added to General Purpose Paint Booths for easier access to the inside of the booth.

### CUSTOM OPTIONS

To meet very specific configuration and usability requirements, GFS offers highly customized booth options that can be fully integrated into General Purpose Booths. These options include multi-stage filtration, seismic construction and conveyor openings.



# GENERAL PURPOSE BOOTHS

## GENERAL PURPOSE FEATURES & OPTIONS MATRIX

Refer to the following matrix to determine which booth features are standard (pre-engineered), optional and custom. Custom options require coordination with a GFS Sales Representative, custom engineering and additional lead times. Pre-engineered features and options can be easily selected within the Industrial Product Configurator Tool.

S - STANDARD

O - OPTION

C - CUSTOM

Features & Options		Non-Pressurized Crossdraft	Pressurized Crossdraft	Non-Pressurized Side Downdraft	Pressurized Side Downdraft	Non-Pressurized Semi-Downdraft	Pressurized Semi-Downdraft	Non-Pressurized Downdraft	Pressurized Downdraft
Construction	18- Gauge Galvanized	S	S	S	S	S	S	S	S
	Conveyor or Monorail Supports	C	C	C	C	C	C	C	C
	Corner-Style (No Bridge) Intake & Exhaust Chambers	C	C	C	C	C	C	C	C
	Custom Depth, Width and Height	C	C	C	C	C	C	C	C
	Vertical Panels w/Hip	S	S	S	S	S	S	S	S
	Single-Skin Panels	S	S	S	S	S	S	S	S
	Pre-Coated White Panels	O	O	O	O	O	O	O	O
Controls	Electromechanical CP	S	C	S		S		S	
	Velocity CP		S		S		S		S
Doors & Windows	Additional Personnel Doors (Quantity Selectable)	C	C	C	C	C	C	C	C
	Drive-Thru Door	O	O	O	O	O	O	O	O
	Filtered Bi-Fold Doors	O							
	Filtered Swing Door	S							
	Limit Switches on Product and Personnel Doors	O	S	O	S	O	S	O	S
	Personnel Door	S	S	S	S	S	S	S	S
	Roll-Up Doors		O	O	O	O	O	O	O
	Sliding Doors	C	C	C	C	C	C	C	C
	Solid Bi-Fold Doors		O	O	O	O	O	O	O
	Solid Swing Doors		S	S	S	S	S	S	S
Lighting	Wall Observation Window Kits Field Install	O	O	O	O	O	O	O	O
	4-Tube, T8 LED Light Fixtures	S	S	S	S	S	S	S	S
	6-Tube, T8 LED Light Fixtures	O	O	O	O	O	O	O	O
	Air Make-Up Unit	O	S	O	S	O	S	O	S
	Auto-Balance		S		S		S		S
	Cure Mode		S		S		S		S
	Intake Fan*		C		C		C		C
Pressurization	Manual VFD or Consta-Flow	O		O		O		O	
	Recirculating Cure Mode		C		C		C		C
	Air Solenoid Valve	S	S	S	S	S	S	S	S
Safety	Multi-Stage Filtration	C	C	C	C	C	C	C	C
	Seismic Construction	C	C	C	C	C	C	C	C

**Note:** Intake fan usage with pressurized crossdraft booth requires consultation with GFS sales.

# GENERAL PURPOSE BOOTHS

## SIDE DOWNDRAFT BOOTH MODELS

Model No.	Inside Dimensions			Outside Dimensions			No. of Light Fixtures	Personnel Doors	Product Doors	Exhaust Fan			
	Width	Height	Depth	Width	Height	Depth			Size	Dia.	HP	SCFM	
<b>14-Foot Inside Width</b>													
Non Pressurized	GPSDG-141024-NSB	14'	10'	24'	19' 8"	10' 8"	24' 4"	12	1	10' W x 8' H	24"	3	11,760
	GPSDG-141027-NSB	14'	10'	27'	19' 8"	10' 8"	27' 4"	14	1	10' W x 8' H	24"	3	13,230
	GPSDG-141030-NSB	14'	10'	30'	19' 8"	10' 8"	30' 4"	16	1	10' W x 8' H	24"	3	14,700
	GPSDG-141033-NSB	14'	10'	33'	19' 8"	10' 8"	33' 4"	16	1	10' W x 8' H	24"	3	16,170
	GPSDG-141224-NSB	14'	12'	24'	19' 8"	12' 8"	24' 4"	12	1	10' W x 10' H	24"	3	11,760
	GPSDG-141227-NSB	14'	12'	27'	19' 8"	12' 8"	27' 4"	14	1	10' W x 10' H	24"	3	13,230
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The following information is consistent for Side Downdraft General Purpose Paint Booths and is not noted in the table:

- Booth Airflow: 35 FPM
- Exhaust fan static pressure assumes a straight duct run of no more than 30 feet in length
- Exhaust Fans: 2
- Static Pressure: 1 inch
- Additional static pressure may be needed to account for elbows, transitions or additional length