



# CARTRIDGE-STYLE RECOVERY POWDER BOOTH

*Building your booth the right way for all the right reasons*

**Environmentally Safe** Cartridge-Style Recovery Powder Booths exceed safety and code requirements NFPA-33, IFC to protect those that work in any industrial spray environment, while also protecting our atmosphere. Your booth will be designed to efficiently remove the powder overspray from the painting operation while maintaining uniform air flow throughout the work area.

**Flexible and Adaptable** You'll discover that we custom design our Cartridge-Style Recovery Powder Booth to be flexible and adaptable to whatever your finishing applications might be. We design open face booths for batch production, as well as high production, conveyorized, and automatic spray booth models. Adapting front filter doors and special booth controls are just a few ways that we can engineer a custom powder booth for you.

**Effective and Efficient** Our Cartridge-Style Recovery Powder Booth provides you an extremely effective method of powder collecting. These booths are designed with a Cartridge-Style Filtration System that captures the powder overspray, allowing clean air to recirculate back into your plant. This eliminates the need for an exhaust stack with expensive air replacement systems. Cartridge-Style Recovery Powder Booths are ideal for heavy-production powder usage where a 3-stage filter system is not practical.

**Appearance and Durability** Your booth will have a quality appearance with our durable premium grade G-90 galvanized steel – a high-end steel material meeting our engineers' standards for quality control and assurance.



## PACKAGE FEATURES & BENEFITS

- **CNC and CAD Technology**—panels are manufactured of premium 18 gauge G-90 galvanized steel, and are precision-punched on six inch centers, allowing for easy nut and bolt assembly, and exploded view assembly drawings supplied
- **High Velocity Reverse-Pulse Jet Cleaning System**—maintains optimum filter efficiency for a longer filter life
- **Quiet Exhaust Fan**—typically operates at low dBA noise levels, below OSHA limits
- **High Efficiency Motor**—all motors match the design performance of the exhaust fan
- **Cartridge Filters**—16" x 36" filters yield a higher air-to-cloth ratio (unique to the Spray Systems), with a control panel mounted magnehelic gauge to properly manage timing of filter change-out
- **Lighting**—high efficiency lighting fixtures designed for mounting outside booth, industrial rated, four-tube (T-8) fluorescent fixtures with dust-tight seals and are ETL listed
- **UL Listed**—all electrical components and latching devices are UL/ETL listed
- **Essential Accessories**—all necessary caulking, nuts and bolts, hardware for proper booth installation

## 6500 & 11000 CFM Cartridge Collectors ...



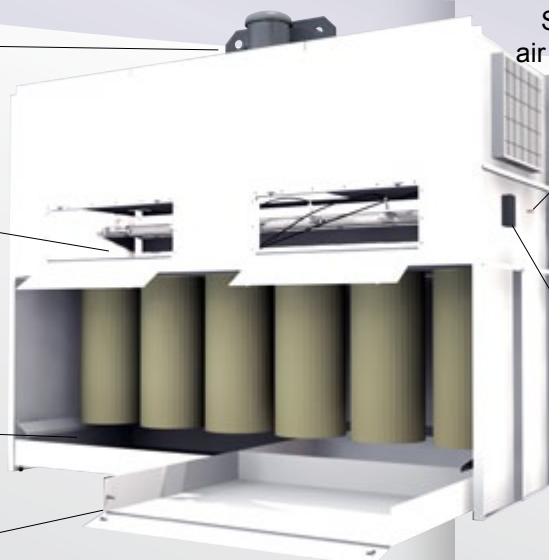
**PC-6500**

Dynamically balanced,  
high static, backward  
inclined blower

High volume  
pulse manifold

Easily removable  
cartridges

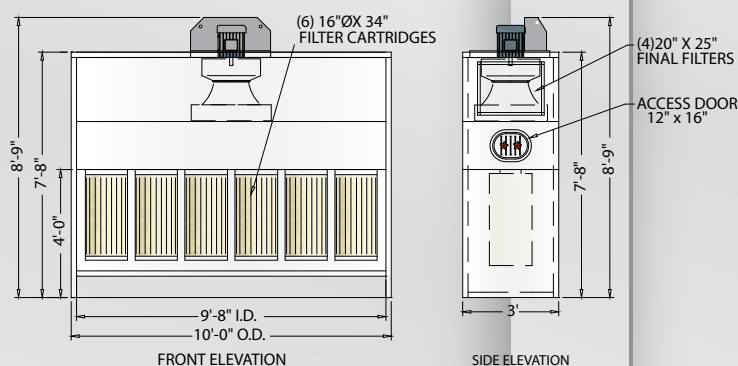
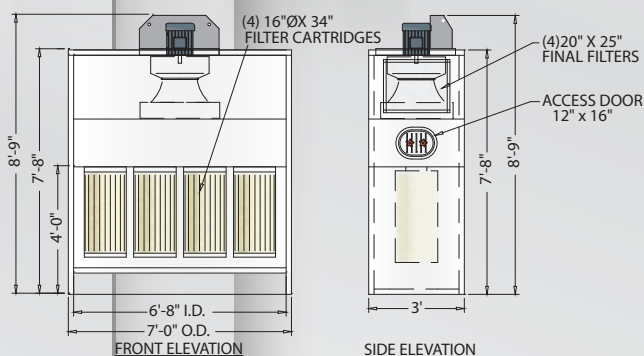
Removable powder tray  
with cleanout plate



Single-point  
air connection

Prewired  
external  
electrical  
junction  
box

**PC-11000**



### High Velocity Reverse-Pulse Jet Cleaning System

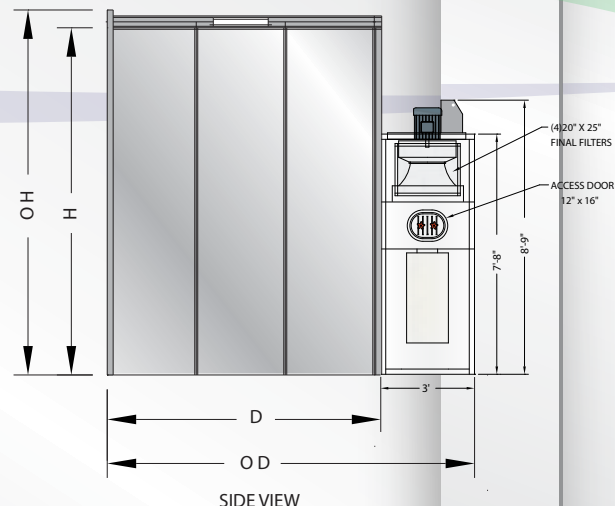
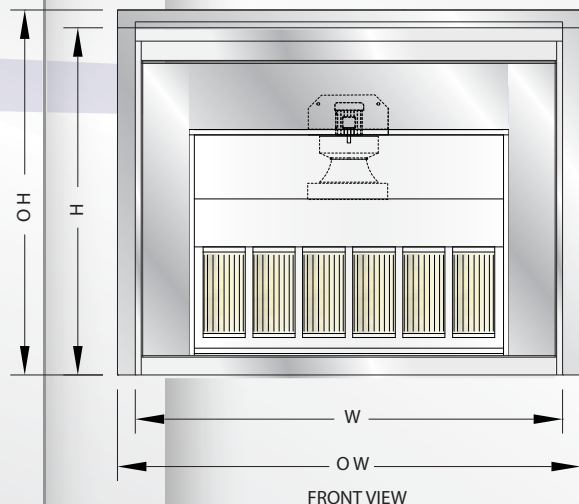
The cartridge filters are automatically cleaned by a high velocity reverse-pulse jet cleaning system. The pulse cycles are controlled by timer and sequence card. The automatic system maintains optimum filter efficiency for a longer filter life. The collector has vertically-mounted cartridge filters removing 99.8% of airborne sub-micron powder particulate which exceeds current OSHA and EPA permissible exposure levels.



### Main Control Panel

- NEMA 12 Enclosure (UL approved)
- Main Disconnect Switch
- Magnehelic Pressure Gauge
- Pulse Sequence System
- Start/Stop Push Button Station
- Pilot Operating Lights
- Booth Light Switch
- Control Transformer

## ... and Collector Recovery Booth Models



### 8' High Recovery Type Powder Booth Models

#### With PC-6500 Collector

Model Number	Work Dimensions			Overall Dimensions			Fan Motor H.P.	Airflow SCFM @ 3.5" S.P.	Cartridge Filter Qty	Final Filter Qty	Light Fixture Qty	Shipping Weight Lbs
	W	H	D	OW	OH	OD						
PB-585-R	5'-0"	7'-9"	5'-0"	5'-4"	8'-1"	8'-0"	7.5	6500	4	4	1	950
PB-887-R	7'-7"	7'-9"	7'-6"	9'-11"	8'-1"	10'-6"	7.5	6500	4	4	1	1550
PB-1087-R	9'-7"	7'-9"	7'-6"	12'-4"	8'-1"	10'-6"	7.5	6500	4	4	2	1750

#### With PC-11000 Collector

Model Number	Work Dimensions			Overall Dimensions			Fan Motor H.P.	Airflow SCFM @ 3.5" S.P.	Cartridge Filter Qty	Final Filter Qty	Light Fixture Qty	Shipping Weight Lbs
	W	H	D	OW	OH	OD						
PB-1287-R	12'-0"	7'-9"	7'-6"	13'-0"	8'-3"	10'-6"	15	11000	6	6	2	2050
PB-1487-R	14'-0"	7'-9"	7'-6"	15'-0"	8'-3"	10'-6"	15	11000	6	6	2	2350

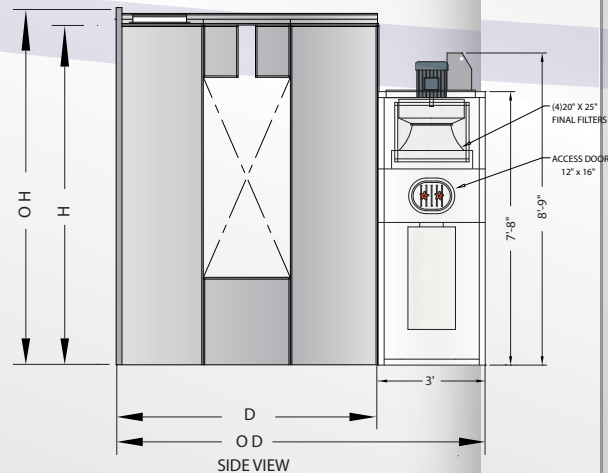
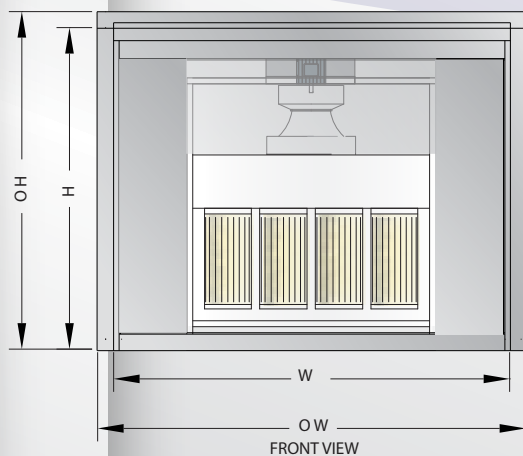
### 10' High Recovery Type Powder Booth Models

#### With PC-6500 Collector

Model Number	Work Dimensions			Overall Dimensions			Fan Motor H.P.	Airflow SCFM @ 3.5" S.P.	Cartridge Filter Qty	Final Filter Qty	Light Fixture Qty	Shipping Weight Lbs
	W	H	D	OW	OH	OD						
PB-8107-R	7'-7"	9'-9"	7'-6"	7'-4"	10'-1"	10'-6"	7.5	6500	4	4	2	1750

#### With PC-11000 Collector

Model Number	Work Dimensions			Overall Dimensions			Fan Motor H.P.	Airflow SCFM @ 3.5" S.P.	Cartridge Filter Qty	Final Filter Qty	Light Fixture Qty	Shipping Weight Lbs
	W	H	D	OW	OH	OD						
PB-10107-R	9'-6"	9'-9"	7'-6"	9'-11"	10'-1"	10'-6"	15	11000	6	6	2	2150
PB-12107-R	12'-0"	9'-9"	7'-6"	13'-0"	10'-1"	10'-6"	15	11000	6	6	2	2350
PB-14107-R	14'-0"	9'-9"	7'-6"	14'-4"	10'-1"	10'-6"	15	11000	6	6	2	3950



### 8' High Conveyorized Recovery Type Powder Booth Models

#### With PC-6500 Collector

Model Number	Work Dimensions			Overall Dimensions			Fan Motor H.P.	Airflow SCFM @ 3.5" S.P.	Cartridge Filter Qty	Final Filter Qty	Light Fixture Qty	Shipping Weight Lbs
	W	H	D	OW	OH	OD						
PB-585-RC	5'-0"	7'-9"	5'-0"	5'-4"	8'-1"	8'-0"	7.5	6500	4	4	1	950
PB-887-RC	7'-7"	7'-9"	7'-6"	9'-11"	8'-1"	10'-6"	7.5	6500	4	4	1	1550
PB-1087-RC	9'-7"	7'-9"	7'-6"	12'-4"	8'-1"	10'-6"	7.5	6500	4	4	2	1750

#### With PC-11000 Collector

Model Number	Work Dimensions			Overall Dimensions			Fan Motor H.P.	Airflow SCFM @ 3.5" S.P.	Cartridge Filter Qty	Final Filter Qty	Light Fixture Qty	Shipping Weight Lbs
	W	H	D	OW	OH	OD						
PB-1287-RC	12'-0"	7'-9"	7'-6"	13'-0"	8'-3"	10'-6"	15	11000	6	6	2	2050
PB-1487-RC	14'-0"	7'-9"	7'-6"	15'-0"	8'-3"	10'-6"	15	11000	6	6	2	2350

### 10' High Conveyorized Recovery Type Powder Booth Models

#### With PC-6500 Collector

Model Number	Work Dimensions			Overall Dimensions			Fan Motor H.P.	Airflow SCFM @ 3.5" S.P.	Cartridge Filter Qty	Final Filter Qty	Light Fixture Qty	Shipping Weight Lbs
	W	H	D	OW	OH	OD						
PB-8107-RC	7'-7"	9'-9"	7'-6"	7'-4"	10'-1"	10'-6"	7.5	6500	4	4	2	1750

#### With PC-11000 Collector

Model Number	Work Dimensions			Overall Dimensions			Fan Motor H.P.	Airflow SCFM @ 3.5" S.P.	Cartridge Filter Qty	Final Filter Qty	Light Fixture Qty	Shipping Weight Lbs
	W	H	D	OW	OH	OD						
PB-10107-RC	9'-6"	9'-9"	7'-6"	9'-11"	10'-1"	10'-6"	15	11000	6	6	2	2150
PB-12107-RC	12'-0"	9'-9"	7'-6"	13'-0"	10'-1"	10'-6"	15	11000	6	6	2	2350
PB-14107-RC	14'-0"	9'-9"	7'-6"	14'-4"	10'-1"	10'-6"	15	11000	6	6	2	3950



# Automatic Recovery Type Powder Booths

Dynamically balanced, high static, backward inclined blower

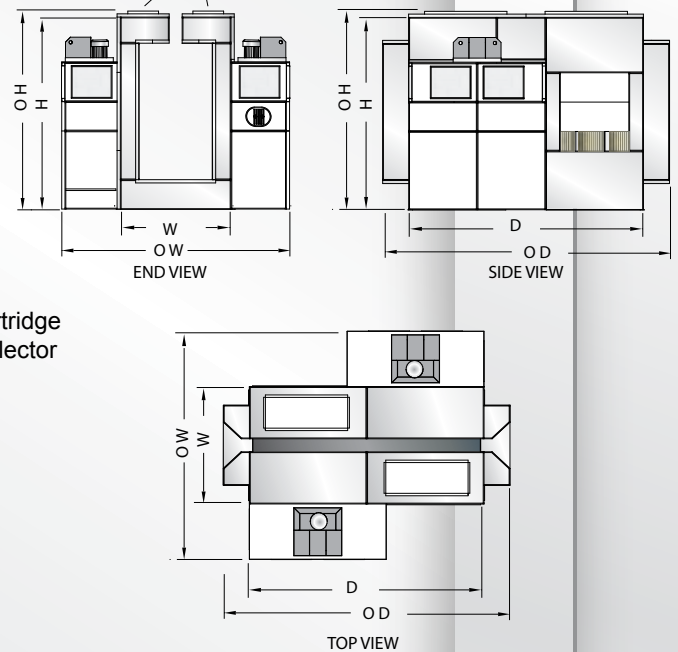
Conveyor Slot

Vapor Type High Efficiency Light Fixtures

Cartridge Collector

Manual Reinforcement Window Opening

Part Conveyor Opening



**Spray Systems** will design a customized automatic powder booth to meet your powder application requirements, specifically based upon your part size and production speed. Includes gun slots for automatic gun movers, manual operator openings, conveyor slots, conveyor openings with vestibules – all designed to meet the specific functions required by your powder production line.

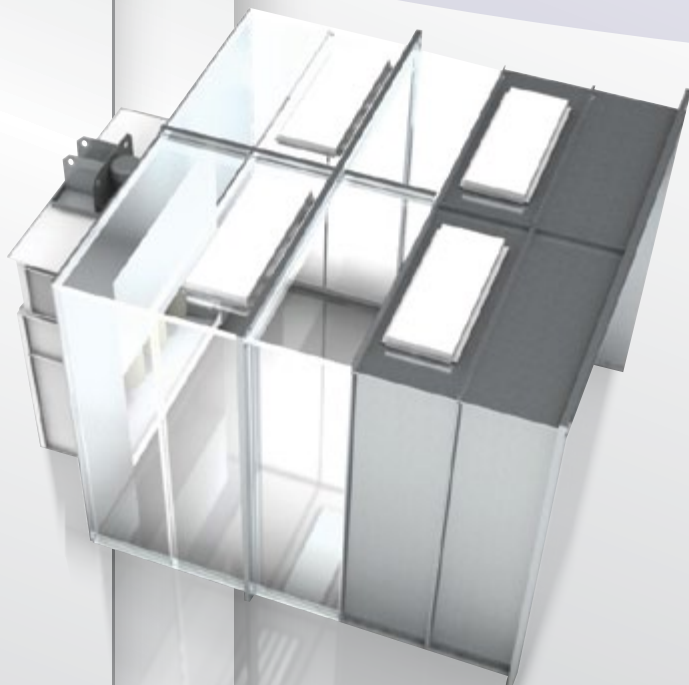
## 8' High Automatic Recovery Type Powder Booth Models

Model Number	Work Dimensions			Overall Dimensions			Fan Motor H.P.	Airflow SCFM @ 3.5" S.P.	Cartridge Filter Qty	Final Filter Qty	Light Fixture Qty	Shipping Weight Lbs
	W	H	D	OW	OH	OD						
<b>APB-4810</b>	4'-0"	7'-9"	10'-0"	7'-2"	8'-3"	15'-0"	7.5	4000	3	4	2	1700
<b>APB-5812</b>	5'-0"	7'-9"	12'-0"	11'-0"	8'-3"	17'-0"	(2) 7.5	6500	4	4	2	3100
<b>APB-6820</b>	6'-0"	7'-9"	20'-0"	12'-0"	8'-3"	25'-0"	(2) 15	11000	6	6	4	3558

## OPTIONS / ACCESSORIES

- Constant Velocity Controls
- Observation Windows
- Safety Shut-Down System
- Air Solenoid Valves
- Custom Control Panels
- Magnehelic Gauges
- Specialized Filters (HEPA)
- Front Filter Doors
- Lighting

# Customize With Extended Working Depths



Depending on your coating needs, facility or booth location, adding extended working depths may be essential. Customize your industrial booth by adding extension modules with all the required support stiffeners, nuts and bolts, and caulking.

5'-0" or 7'-6" deep extension modules include all required lighting.

MODEL NUMBER			PART NUMBER			SHIPPING WEIGHT		
Booth Size	I.D. Width	I.D. Height	2'-6" Extension	5'-0" Extension	7'-6" Extension	EXT. 2'-6"	EXT. 5'-0"	EXT. 7'-6"
PB-585	5'-0"	7'-9"	20-1100-30	20-1100-60	20-1100-90	165	330	495
PB-887	7'-6"	7'-9"	20-1101-30	20-1101-60	20-1101-90	195	390	585
PB-1087	9'-6"	7'-9"	20-1102-30	20-1102-60	20-1102-90	215	430	645
PB-1287	12'-0"	7'-9"	20-1103-30	20-1103-60	20-1103-90	245	490	735
PB-1487	14'-0"	7'-9"	20-1104-30	20-1104-60	20-1104-90	265	530	795
PB-1687	16'-0"	7'-9"	20-1105-30	20-1105-60	20-1105-90	285	570	855
PB-1887	18'-0"	7'-9"	20-1106-30	20-1106-60	20-1106-90	305	610	915
PB-2087	20'-0"	7'-9"	20-1107-30	20-1107-60	20-1107-90	325	650	975
PB-2287	22'-0"	7'-9"	20-1108-30	20-1108-60	20-1108-90	355	710	1065
PB-2487	24'-0"	7'-9"	20-1109-30	20-1109-60	20-1109-90	375	750	1125
PB-8107	7'-6"	9'-9"	20-1111-30	20-1111-60	20-1111-90	215	430	645
PB-10107	9'-6"	9'-9"	20-1112-30	20-1112-60	20-1112-90	235	470	705
PB-12107	12'-0"	9'-9"	20-1113-30	20-1113-60	20-1113-90	265	530	795
PB-14107	14'-0"	9'-9"	20-1114-30	20-1114-60	20-1114-90	285	570	855
PB-16107	16'-0"	9'-9"	20-1115-30	20-1115-60	20-1115-90	305	610	915
PB-18107	18'-0"	9'-9"	20-1116-30	20-1116-60	20-1116-90	325	650	975
PB-20107	20'-0"	9'-9"	20-1117-30	20-1117-60	20-1117-90	355	710	1065
PB-22107	22'-0"	9'-9"	20-1118-30	20-1118-60	20-1118-90	375	750	1125
PB-24107	24'-0"	9'-9"	20-1119-30	20-1119-60	20-1119-90	395	790	1185
PB-8127	7'-6"	11'-9"	20-1120-30	20-1120-60	20-1120-90	255	510	765
PB-10127	9'-6"	11'-9"	20-1121-30	20-1121-60	20-1121-90	275	550	825
PB-12127	12'-0"	11'-9"	20-1122-30	20-1122-60	20-1122-90	295	590	885
PB-14127	14'-0"	11'-9"	20-1123-30	20-1123-60	20-1123-90	315	630	945
PB-16127	16'-0"	11'-9"	20-1124-30	20-1124-60	20-1124-90	345	690	1035
PB-18127	18'-0"	11'-9"	20-1125-30	20-1125-60	20-1125-90	365	730	1095
PB-20127	20'-0"	11'-9"	20-1126-30	20-1126-60	20-1126-90	385	770	1155
PB-22127	22'-0"	11'-9"	20-1127-30	20-1127-60	20-1127-90	405	810	1215
PB-24127	24'-0"	11'-9"	20-1128-30	20-1128-60	20-1128-90	425	850	1275

Specifications are subject to change without notice

## And Front Filter Doors



Part Number 20-3000-00

**Protect Your High Quality Finishes** Add filter doors to the front of your booth to ensure the highest quality finishes for your products. All filter doors include high efficiency 20" X 25" X 2" air supply filters, door jambs, and hardware. *(Side access doors may be required on totally enclosed booths).*

**Sturdy Door Construction** Structural tube frame, continuously welded for strength, corrosion protection, leak-proof wiper seal at base, and heavy duty safety latches. All access doors include a 18" X 36" observation window.

*Exhaust System Precaution—Filter doors add approximately .25" static pressure to the exhaust system requiring that the rating of the fan match the static pressure; consult your Spray Systems advisor.*

### FRONT FILTER DOORS

Model Number	Booth Size	Door Opening		Individual Door Width	Door Qty.	Filters		Maximum C.F.M.	Shipping Weight
		Width	Height			Size	Qty.		
20-1000-08	PB-585	4'-3"	7'-7½"	4'-6" x 7'-8"	1	20" x 25"	8	5600	315
20-1001-08	PB-887	7'-2"	7'-7½"	3'-8" x 7'-8"	2	20" x 25"	12	8400	445
20-1002-08	PB-1087	9'-2"	7'-7½"	4'-8" x 7'-8"	2	20" x 25"	16	11200	503
20-1003-08	PB-1287	10'-10"	7'-7½"	5'-6" x 7'-8"	2	20" x 25"	18	12600	570
20-1004-08	PB-1487	10'-10"	7'-7½"	5'-6" x 7'-8"	2	20" x 25"	18	12600	605
20-1005-08	PB-1687	10'-10"	7'-7½"	5'-6" x 7'-8"	2	20" x 25"	22	15400	665
20-1006-08	PB-1887	13'-10"	7'-7½"	7'-0" x 7'-8"	2	20" x 25"	24	16800	710
20-1007-08	PB-2087	13'-10"	7'-7½"	7'-0" x 7'-8"	2	20" x 25"	24	16800	745
20-1008-08	PB-2287	17'-6"	7'-7½"	8'-10" x 7'-8"	2	20" x 25"	30	21000	825
20-1009-08	PB-2487	17'-6"	7'-7½"	8'-10" x 7'-8"	2	20" x 25"	36	25200	870
20-1001-10	PB-8107	7'-2"	9'-7½"	3'-8" x 9'-8"	2	20" x 25"	16	11200	525
20-1002-10	PB-10107	9'-2"	9'-7½"	4'-8" x 9'-8"	2	20" x 25"	20	14000	595
20-1003-10	PB-12107	10'-10"	9'-7½"	5'-6" x 9'-8"	2	20" x 25"	24	16800	675
20-1004-10	PB-14107	10'-10"	9'-7½"	5'-6" x 9'-8"	2	20" x 25"	24	16800	715
20-1005-10	PB-16107	10'-10"	9'-7½"	5'-6" x 9'-8"	2	20" x 25"	32	22400	785
20-1006-10	PB-18107	14'-2"	9'-7½"	7'-2" x 9'-8"	2	20" x 25"	32	22400	835
20-1007-10	PB-20107	14'-2"	9'-7½"	7'-2" x 9'-8"	2	20" x 25"	32	22400	925
20-1008-10	PB-22107	17'-6"	9'-7½"	8'-10" x 9'-8"	2	20" x 25"	40	28000	985
20-1009-10	PB-24107	17'-6"	9'-7½"	8'-10" x 9'-8"	2	20" x 25"	48	33600	1035
20-1001-12	PB-8127	7'-2"	11'-7½"	3'-8" x 11'-8"	2	20" x 25"	20	14000	600
20-1002-12	PB-10127	9'-2"	11'-7½"	4'-8" x 11'-8"	2	20" x 25"	24	16800	670
20-1003-12	PB-12127	10'-10"	11'-7½"	5'-6" x 11'-8"	2	20" x 25"	30	21000	765
20-1004-12	PB-14127	10'-10"	11'-7½"	5'-6" x 11'-8"	2	20" x 25"	30	21000	825
20-1005-12	PB-16127	10'-10"	11'-7½"	5'-6" x 11'-8"	2	20" x 25"	40	28000	910
20-1006-12	PB-18127	14'-2"	11'-7½"	7'-2" x 11'-8"	2	20" x 25"	40	28000	980
20-1007-12	PB-20127	14'-2"	11'-7½"	7'-2" x 11'-8"	2	20" x 25"	40	28000	1000
20-1008-12	PB-22127	17'-6"	11'-7½"	8'-10" x 11'-8"	2	20" x 25"	50	35000	1130
20-1009-12	PB-24127	17'-6"	11'-7½"	8'-10" x 11'-8"	2	20" x 25"	50	35000	1200

Specifications are subject to change without notice





## Where Custom Designs Are Standard

### Booth Designs

- Open Face Booths
- Enclosed Booths
  - Cross Draft
  - Down Draft
  - Side Down Draft
  - Semi-Down Draft
  - Spray Bake

### Booth Types

- Bench Booths
- Blasting Enclosures
- Booth Extensions
- Conveyorized Spray Booths
- Customized Duct Designs
- Dry Filter/Industrial Booths
- Dust Collectors
- Grinding Booths
- Powder Booths
  - Recovery type
  - Non-Recovery type
- Truck and Large Equipment Booths
- Water Wash Spray Booths
  - Centrifuge Sludge Systems
  - Pump Type
  - Pumpless Type

### Additional Options

- Air Make-up Units
- Booth Extensions
- Electrical Control Panels
- Flash Tunnels
- Ovens
  - Drying Enclosures
  - Convection (gas or electric)
  - Infrared (catalytic and electric)
- Turnkey and Custom Systems
- VOC Abatement Systems

## An American Tradition of Excellence

**The Spray Systems Advantage** Located in Pomona, California since 1978, our 45,000 square foot facility houses state-of-the-art machinery operated by dedicated and highly skilled team members. With more than 35 years of experience in the design, fabrication and installation of spray booths, we can deliver to you the custom products, precision engineering, and responsive service to ensure your complete satisfaction – whatever your company size, finished product specifications, production rates, or coating needs.

**Enjoy Our Wide Selection And Flexible Design** We feature more than 300 booth design options for a wide variety of uses, and specialize in custom designs for the most unique of applications. To ensure full integration, our spray booth design will take into account all of your specific finishing requirements, including filtration, lighting, temperature, humidity and air flow.

**Discover Precise, Custom Tailored Engineering Solutions** All booths are custom designed using the latest version of AutoCAD to ensure precision and prevent against interference fit – early detection in the design stage prevents costly field modifications for you. We feature easy-to-read and easy-to-follow isometric assembly drawings. Each panel and component part is identified with a computer-generated label that precisely matches the CAD-produced, exploded-view assembly drawing – all making installation efficient and trouble-free.

**Receive Unparalleled Personal Attention** Spray Systems is committed to providing you dedicated service and support that place a high value on accountability and quality control. That means walking you through every phase of the design and installation process and tailoring our manufacturing to your specific requirements. We want to ensure the on-going success of your spray booth training, service, and operations. For us, quality of service doesn't end with the installation.

### Call For A Free Consultation

### Discuss Your Spray Booth Needs With Your Spray Systems Advisor 800 736-6944

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