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Dust Collection

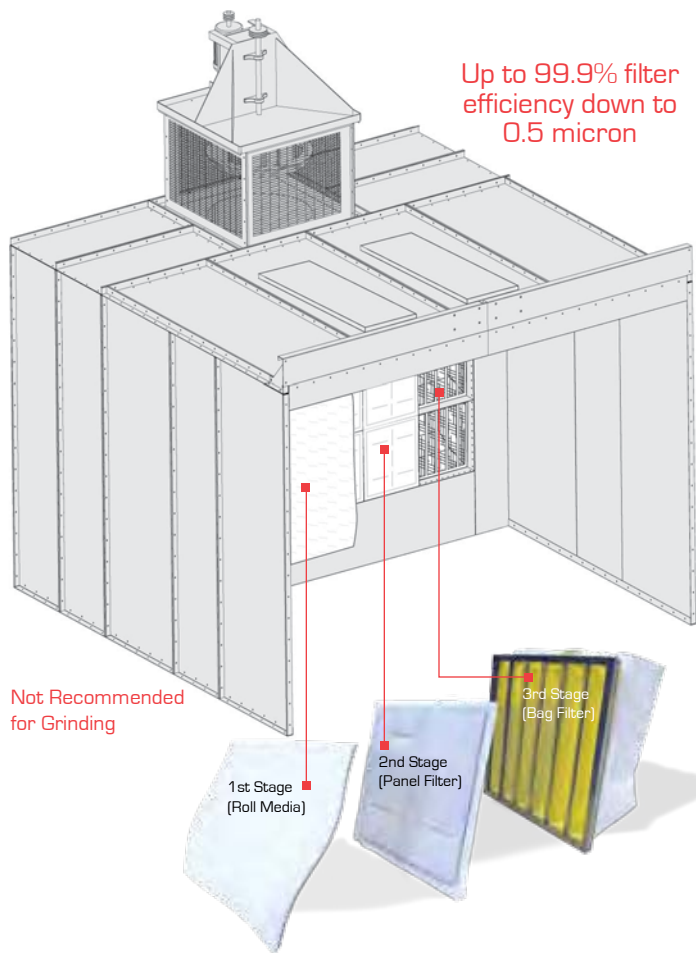
Sanding & Grinding Booths

APPLICATIONS:

- > Metal
- > Wood
- > Fiberglass
- > Laminates



BATCH STYLE Sanding Booths



BOOTH FEATURES

- Galvanized steel panels
- Heavy duty, high capacity, low noise plug fan (rated at 1.5" SP)
- Smooth interior for easy maintenance
- 3-Stage filtration system easily accessible from inside booth
- Energy efficient inside access light fixture(s)
- Re-circulates clean air
- Air make-Up not required
- Designed to comply with OSHA, NFPA, and NEC regulations

COMPLETE PACKAGE

All booth systems are shipped with:

- Fan
- Electric motor
- Energy efficient light fixture(s)
- Filters and grids
- Manometer for filter maintenance
- Assembly hardware and drawings



3-Stage Filtration System

Easily accessible from inside the booth.

1st Stage Roll Media	2nd Stage Panel Filter	3rd Stage Bag Filters
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Roll Media contains multi-layered polyester media. The air-entry side is constructed of a mixture of lofted denier fiber. The air-leaving side is comprised of a mixture of heavily needed media to densify. The air leaving side is jet-ink printed for identification and proper installation.

Part No:
216-502 - 36" x 50"
216-503 - 45" x 50"

The panel is constructed of two different layers of tackified polyester media, sealed together so the tackified layers of each media touch in the center. A galvanized nine-gauge wire frame inside the panel touches the tackified sides of both media. The air-entry layer is constructed of multi-layered, multi-density polyester with a heavy, non-migrating tackifier on the air-leaving side. The air-leaving media is a heavily needed polyester, densified to 1/4" thick, tackified on the air-entry side.

Part No:
216-501 - 20" x 20" x 1"

The 6-pocket bag filter, is constructed of a composite of pre-filter, melt blown and spunbound polyester fibers. The pockets are sewn together on the perimeter with two heat seals, forming three air channels in each bag pocket.

The bag pockets on the metal support is inserted into a galvanized metal header. The galvanized header contains an acceptable sealing agent inside of each header to eliminate the possibility of paint bypass within the filter.

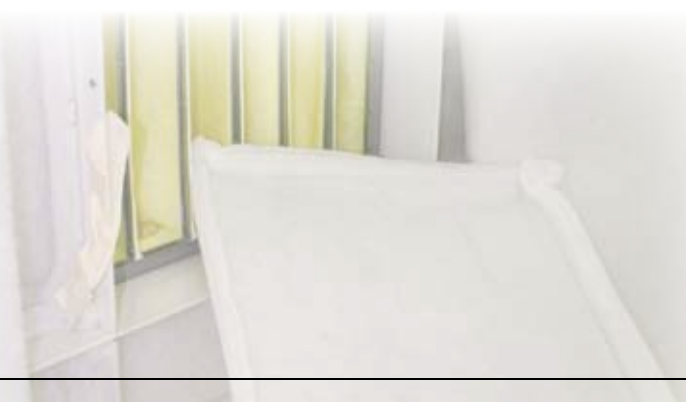
Part No:
216-505 - 20" x 20" x 12"

OPTIONS

- White pre-coated panels
- Conveyor openings
- Booth extensions
- Product doors
- CP1 control panel (Motor HP, Voltage and Phase specific)

Notes:

- CFM rating based on clean filters

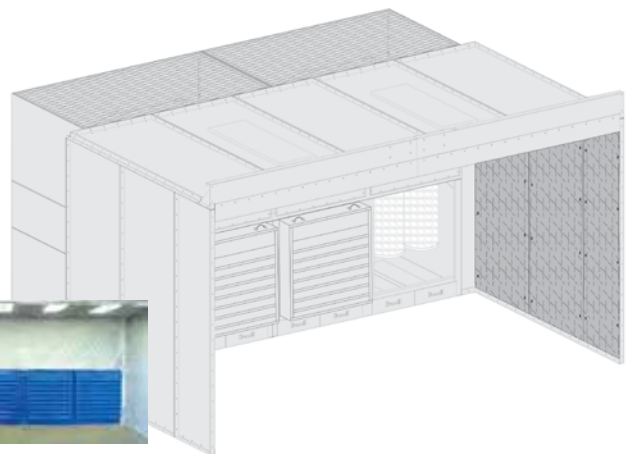


	GFS Batch Style Model No.		Inside Dimensions		Outside Dimensions			Fan Clear Height	Light Qty	CFM	Fan Diameter	Motor HP
	Galvanized (Standard)	Precoat-White (Optional)	H	D	W	H	D					
8 Ft. Wide Booths	DNRG-886	DNRW-886	8'	6'	8'-4"	8'-2"	10'-2"	12'-2"	1	8000	24"	3
	DNRG-888	DNRW-888	8'	8'	8'-4"	8'-2"	12'-2"	12'-2"	1	8000	24"	3
	DNRG-889	DNRW-889	8'	9'	8'-4"	8'-2"	13'-2"	12'-2"	1	8000	24"	3
	DNRG-889-XL	DNRW-889-XL	8'	9'	8'-4"	8'-2"	13'-2"	12'-2"	2	8000	24"	3
	DNRG-8812	DNRW-8812	8'	12'	8'-4"	8'-2"	16'-2"	12'-2"	2	8000	24"	3
	DNRG-8106	DNRW-8106	10'	6'	8'-4"	10'-2"	10'-2"	14'-2"	1	10000	24"	5
	DNRG-8108	DNRW-8108	10'	8'	8'-4"	10'-2"	12'-2"	14'-2"	1	10000	24"	5
	DNRG-8109	DNRW-8109	10'	9'	8'-4"	10'-2"	13'-2"	14'-2"	1	10000	24"	5
	DNRG-8109-XL	DNRW-8109-XL	10'	9'	8'-4"	10'-2"	13'-2"	14'-2"	2	10000	24"	5
	DNRG-81012	DNRW-81012	10'	12'	8'-4"	10'-2"	16'-2"	14'-2"	2	10000	24"	5
10 Ft. Wide Booths	DNRG-1086	DNRW-1086	8'	6'	10'-4"	8'-2"	10'-2"	12'-2"	2	10000	24"	5
	DNRG-1088	DNRW-1088	8'	8'	10'-4"	8'-2"	12'-2"	12'-2"	2	10000	24"	5
	DNRG-1089	DNRW-1089	8'	9'	10'-4"	8'-2"	13'-2"	12'-2"	2	10000	24"	5
	DNRG-1089-XL	DNRW-1089-XL	8'	9'	10'-4"	8'-2"	13'-2"	12'-2"	3	10000	24"	5
	DNRG-10812	DNRW-10812	8'	12'	10'-4"	8'-2"	16'-2"	12'-2"	4	10000	24"	5
	DNRG-10106	DNRW-10106	10'	6'	10'-4"	10'-2"	10'-2"	14'-11"	2	12500	30"	5
	DNRG-10108	DNRW-10108	10'	8'	10'-4"	10'-2"	12'-2"	14'-11"	2	12500	30"	5
	DNRG-10109	DNRW-10109	10'	9'	10'-4"	10'-2"	13'-2"	14'-11"	2	12500	30"	5
	DNRG-10109-XL	DNRW-10109-XL	10'	9'	10'-4"	10'-2"	13'-2"	14'-11"	3	12500	30"	5
	DNRG-101012	DNRW-101012	10'	12'	10'-4"	10'-2"	16'-2"	14'-11"	4	12500	30"	5
12 Ft. Wide Booths	DNRG-1288	DNRW-1288	8'	8'	12'-4"	8'-10"	12'-2"	12'-11"	2	12000	30"	5
	DNRG-12810	DNRW-12810	8'	10'	12'-4"	8'-10"	14'-2"	12'-11"	2	12000	30"	5
	DNRG-12810-XL	DNRW-12810-XL	8'	10'	12'-4"	8'-10"	14'-2"	12'-11"	4	12000	30"	5
	DNRG-12812	DNRW-12812	8'	12'	12'-4"	8'-10"	16'-2"	12'-11"	4	12000	30"	5
	DNRG-12108	DNRW-12108	10'	8'	12'-4"	10'-10"	12'-2"	14'-11"	2	15000	30"	5
	DNRG-121010	DNRW-121010	10'	10'	12'-4"	10'-10"	14'-2"	14'-11"	2	15000	30"	5
	DNRG-121010-XL	DNRW-121010-XL	10'	10'	12'-4"	10'-10"	14'-2"	14'-11"	4	15000	30"	5
	DNRG-121012	DNRW-121012	10'	12'	12'-4"	10'-10"	16'-2"	14'-11"	4	15000	30"	5
14 Ft. Wide Booths	DNRG-1488	DNRW-1488	8'	8'	14'-4"	8'-10"	12'-2"	12'-11"	2	14000	30"	5
	DNRG-14810	DNRW-14810	8'	10'	14'-4"	8'-10"	14'-2"	12'-11"	2	14000	30"	5
	DNRG-14810-XL	DNRW-14810-XL	8'	10'	14'-4"	8'-10"	14'-2"	12'-11"	4	14000	30"	5
	DNRG-14812	DNRW-14812	8'	12'	14'-4"	8'-10"	16'-2"	12'-11"	4	14000	30"	5
	DNRG-14108	DNRW-14108	10'	8'	14'-4"	10'-10"	12'-2"	15'-4"	2	17500	36"	5
	DNRG-141010	DNRW-141010	10'	10'	14'-4"	10'-10"	14'-2"	15'-4"	2	17500	36"	5
	DNRG-141010-XL	DNRW-141010-XL	10'	10'	14'-4"	10'-10"	14'-2"	15'-4"	4	17500	36"	5
	DNRG-141012	DNRW-141012	10'	12'	14'-4"	10'-10"	16'-2"	15'-4"	4	17500	36"	5
16 Ft. Wide Booths	DNRG-1688	DNRW-1688	8'	8'	16'-4"	8'-10"	12'-2"	12'-11"	2	16000	30"	7.5
	DNRG-16810	DNRW-16810	8'	10'	16'-4"	8'-10"	14'-2"	12'-11"	2	16000	30"	7.5
	DNRG-16810-XL	DNRW-16810-XL	8'	10'	16'-4"	8'-10"	14'-2"	12'-11"	4	16000	30"	7.5
	DNRG-16812	DNRW-16812	8'	12'	16'-4"	8'-10"	16'-2"	12'-11"	4	16000	30"	7.5
	DNRG-16108	DNRW-16108	10'	8'	16'-4"	10'-10"	12'-2"	15'-4"	2	20000	36"	7.5
	DNRG-161010	DNRW-161010	10'	10'	16'-4"	10'-10"	14'-2"	15'-4"	2	20000	36"	7.5
	DNRG-161010-XL	DNRW-161010-XL	10'	10'	16'-4"	10'-10"	14'-2"	15'-4"	4	20000	36"	7.5
	DNRG-161012	DNRW-161012	10'	12'	16'-4"	10'-10"	16'-2"	15'-4"	4	20000	36"	7.5
18 Ft. Wide Booths	DNRG-1888	DNRW-1888	8'	8'	18'-4"	8'-10"	12'-2"	13'-4"	3	18000	36"	7.5
	DNRG-18810	DNRW-18810	8'	10'	18'-4"	8'-10"	14'-2"	13'-4"	3	18000	36"	7.5
	DNRG-18810-XL	DNRW-18810-XL	8'	10'	18'-4"	8'-10"	14'-2"	13'-4"	5	18000	36"	7.5
	DNRG-18812	DNRW-18812	8'	12'	18'-4"	8'-10"	16'-2"	13'-4"	6	18000	36"	7.5
	DNRG-18108	DNRW-18108	10'	8'	18'-4"	10'-10"	12'-2"	15'-4"	3	22500	36"	7.5
	DNRG-181010	DNRW-181010	10'	10'	18'-4"	10'-10"	14'-2"	15'-4"	3	22500	36"	7.5
	DNRG-181010-XL	DNRW-181010-XL	10'	10'	18'-4"	10'-10"	14'-2"	15'-4"	5	22500	36"	7.5
	DNRG-181012	DNRW-181012	10'	12'	18'-4"	10'-10"	16'-2"	15'-4"	6	22500	36"	7.5
20 Ft. Wide Booths	DNRG-2088	DNRW-2088	8'	8'	20'-4"	8'-10"	12'-2"	13'-4"	4	20000	36"	7.5
	DNRG-20810	DNRW-20810	8'	10'	20'-4"	8'-10"	14'-2"	13'-4"	4	20000	36"	7.5
	DNRG-20810-XL	DNRW-20810-XL	8'	10'	20'-4"	8'-10"	14'-2"	13'-4"	6	20000	36"	7.5
	DNRG-20812	DNRW-20812	8'	12'	20'-4"	8'-10"	16'-2"	13'-4"	8	20000	36"	7.5
	DNRG-20108	DNRW-20108	10'	8'	20'-4"	10'-10"	12'-2"	15'-4"	4	25000	36"	10
	DNRG-201010	DNRW-201010	10'	10'	20'-4"	10'-10"	14'-2"	15'-4"	4	25000	36"	10
DNRG-201010-XL	DNRW-201010-XL	10'	10'	20'-4"	10'-10"	14'-2"	15'-4"	6	25000	36"	10	
DNRG-201012	DNRW-201012	10'	12'	20'-4"	10'-10"	16'-2"	15'-4"	8	25000	36"	10	

HIGH PRODUCTION Sanding and Grinding Booths

Total Air Re-Circulation

- 18-gauge galvanized steel panels, precision-flanged and pre-punched for easy assembly (White pre-coat optional).
- Dust-laden air is pulled away from the worker at a rate of 120-140 FPM while clean air moves past the worker at the same rate.
- Energy efficient light fixture(s) with inside access for easy maintenance.
- Panels can be lined with fire retardant, acoustical, washable material for noise absorption, optional.



Application	Model No.	Performance Data				Specifications					Appx. Ship Weight (lbs)	Optional Deluxe Control Panel
		Blower HP	No. Filters	Sq. Ft. Filters	SCFM	Width	Height	Depth*	Dust Stor. (cu. ft.)	Air-Filter Ratio		
Wood and Metal <small>Not recommended for combustible metals</small>	GFS-4-SG	5	9	1,719	5,120	4'	8'2"	4'	4.8	3.0:1	1,550	SBCP-105
	GFS-7-SG	7.5	15	2,865	8,960	7'	8'2"	4'	8.4	3.1:1	2,400	SBCP-107
Fiberglass, Laminates, and Composites	GFS-4-CO	5	9	1,719	5,120	4'	8'2"	4'	4.8	3.0:1	1,550	SBCP-105
	GFS-7-CO	7.5	15	2,865	8,960	7'	8'2"	4'	8.4	3.1:1	2,400	SBCP-107

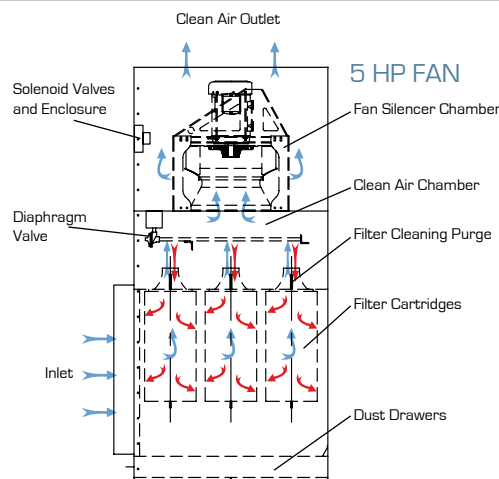
*Working Depth Determined by Door Type and Size.

Electrical requirements: Blower 208-230/460V, 60 Hz, 3 phase, control power 120V, 60 Hz. Shipped with fully assembled modules complete with fan, motor, cartridges, and timer board.

Normal Operation

Dust control is provided by a fan and filter system that pulls air through the power module.

The filter section of the power module removes the dust and clean air is exhausted back into the plant.



Up to 99.8% filter efficiency
down to 0.5 micron

Application	Model No.	Inside Dimensions			Outside Dimensions				Includes SAFE-AIR Module(s)				Optional Deluxe Control Panel	
		Width	Height	Depth*	Width	Height	Depth	Size	Qty	F.P.M. Clean	SCFM	No. Light Fixtures		Appx. Weight Ship (lbs.)
Wood and Metal <small>Not recommended for combustible metals</small>	GFS-888-SG	8'	8'	8'	8'4"	8'6"	12'	4'	2	140	10,240	2	4,000	SBCP-205
	GFS-1288-SG	12'	8'	8'	13'	8'6"	12'	4'	3	140	15,360	4	4,800	SBCP-305
	GFS-1588-SG	15'	8'	8'	16'	8'8"	12'	7'	2	140	17,920	4	7,000	SBCP-207
	GFS-2288-SG	22'	8'	8'	23'	8'8"	12'	7'	3	140	26,880	5	9,000	SBCP-307
Fiberglass, Laminates and Composites	GFS-888-CO	8'	8'	8'	8'4"	8'6"	12'	4'	2	140	10,240	2	4,000	SBCP-205
	GFS-1288-CO	12'	8'	8'	13'	8'6"	12'	4'	3	140	15,360	4	4,800	SBCP-305
	GFS-1588-CO	15'	8'	8'	16'	8'8"	12'	7'	2	140	17,920	4	7,000	SBCP-207
	GFS-2288-CO	22'	8'	8'	23'	8'8"	12'	7'	3	140	26,880	5	9,000	SBCP-307

*Working Depth Determined by Door Type and Size.

Depth of each booth can be increased at a nominal cost. Shipped with fully assembled modules complete with fan, motor, cartridges, and timer board. Booth panels require assembly on site.

HIGH PRODUCTION High Efficiency Particulate Arrestors (HEPA Filtration)

Application	Model	Performance Data								Specifications					Optional Deluxe Control
		Blower HP	# of Primary Filters	Sq. Ft. Primary Filter	# of HEPA Filters	Sq. Ft. HEPA Filter	SCFM	F.P.M. Clean	F.P.M. Dirty	Width	Height	Depth*	Dust Stor.	Air Flow Ratio	
Wood & Metal	GFS-4-HEPA-SG	10	9	1,719	4	1,560	5,120	140	120	4'	9'6"	4'	4.8	3.0:1	SBCP-110
	GFS-7-HEPA-SG	15	15	2,865	6	2,340	8,960	140	120	7'	9'6"	4'	8.4	3.1:1	SBCP-115
Fiberglass, Laminates & Composites	GFS-4-HEPA-CO	10	9	1,719	4	1,560	5,120	140	120	4'	9'6"	4'	4.8	3.0:1	SBCP-110
	GFS-7-HEPA-CO	15	15	2,865	6	2,340	8,960	140	120	7'	9'6"	4'	8.4	3.1:1	SBCP-115

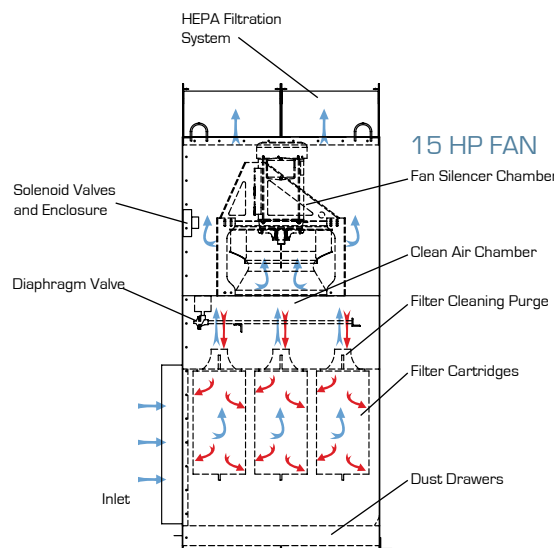
* Depth determined by Door Type and Size.

Electrical Requirements: Blower 208-230/460V 60 HZ Three Phase, Control Power 120V 60HZ Single Phase. Shipped with fully assembled modules complete with fan, motor, cartridges, and timer board.

Normal Operation

Dust control is provided by a fan and filter system that pulls air through the power module.

The filter section of the power module removes the dust and clean air is exhausted back into the plant.



Models are complete with:

- High capacity HEPA filtration system. Obtaining a control efficiency of 99.9% at 0.3 micron particle size. (Meets requirements for Safe Hexavalent Chromium Arrestance)
- Magnahelic gauge for monitoring HEPA filtration performance



HEPA Filter

DELUXE CONTROL PANEL

Optional

Deluxe control panel (UL listed) is factory assembled, pre-wired and numbered, complete with fused disconnect, motor starter(s) stop/start switch, light switch, indicator lights, photohelic gauge, solid-state timer board, two position purge selector switch, and push button for manual purge. Selector switch can be set for continuous pulse cleaning or automatic cleaning controlled by the photohelic pressure gauge. The photohelic gauge monitors pressure drops and initiates the automatic cleaning process. During automatic cleaning, high velocity air is automatically injected into each filter on a sequential basis to clean the filters and insure maximum airflow at all times and long filter life.

SB CP - 1 10	
Type	Motor HP
SB - Sanding Booth	05 - 5HP
Control Panel	07 - 7.5 HP
	10 - 10 HP
	15 - 15 HP
	20 - 20 HP
No. of Motors:	
1 - 1 motor	
2 - 2 motors	
etc.	



DUST COLLECTORS High Volume Air Capacities

Continuous Pulse-Jet Cleaning

The filter cartridges are cleaned automatically. The system remains on-line continuously for full-time pollution control, better product quality, and longer machine life. A solid-state timer controls cycle time. Solenoid valves introduce high-pressure air into each filter cartridge through the venturi opening above it. Reverse airflow cleans the cartridges. Collected dust falls to the bottom of the collector. Each cartridge module is cleaned in succession. Extremely high dust loadings are handled easily. These systems are available in continuous duty/automatic or intermittent manual cleaning versions.

EASY MAINTENANCE

The downdraft system has been designed for easy maintenance. The front cartridge removal design allows personnel to service the unit through access portholes. Used cartridges can be removed and properly disposed.

DOWNDRAFT MODULE

The unique downdraft design uses gravity and a downward airflow to aid in the self-cleaning process. The air inlet is located at the top of the unit and the downdraft airflow forces dust directly into the collector hopper below. This design cleans the air efficiently resulting in lower operating costs.

DOWNDRAFT DESIGN

The downdraft airflow design with horizontal filter placement allows an increased number of filters to be used. The increased numbers of filters allow increased airflow through each module. Therefore, the physical size is minimized while the airflow is maximized.



WIDE RANGE OF APPLICATIONS

GFS dust collectors have been used on a wide variety of applications including welding, mixing, and conveyor transfer stations. They are particularly well suited for filtering very fine particulates in large air volumes. The compact design of the unit also makes it a good in-plant unit collector because it saves valuable floor space while minimizing the required ductwork.

FLEXIBILITY OF DESIGN

The downdraft cartridge design enables you to meet varying space and filter capacity requirements. The modular design also allows you to install the system you need now and as your requirements increase, you can add additional modules to meet your needs. Standard models range from a 4 to 80 cartridge capacity, enabling you to handle high volume air capacities.

Model No.	Specifications							Appx. Ship Weight (lbs.)
	Width	Height	Depth	Filter Cartridge Measure Area	Air to Filter Ratio	No. Cart. Filters	SCFM	
GFS-4-2-1	40"	115"	72"	904	2.7:1	4	2,400	1,200
GFS-8-2-2	40"	125"	72"	1,808	2.7:1	8	4,800	2,000
GFS-12-2-3	60"	125"	72"	2,712	2.7:1	12	7,200	2,300
GFS-16-2-4	80"	125"	72"	3,616	2.7:1	16	9,600	3,200
GFS-24-4-3	80"	144"	72"	5,424	2.7:1	24	14,400	3,800
GFS-32-4-4	80"	163"	72"	7,232	2.7:1	32	19,200	4,500
GFS-36-6-3	120"	144"	72"	8,136	2.7:1	36	21,600	5,400
GFS-48-6-4	120"	163"	72"	10,848	2.7:1	48	28,800	6,400
GFS-60-10-3	200"	144"	72"	13,560	2.7:1	60	36,000	9,000
GFS-72-12-3	240"	144"	72"	16,272	2.7:1	72	43,200	9,600
GFS-80-10-4	200"	163"	72"	18,080	2.7:1	80	48,000	11,000

The first digit in the Model No. indicates total number of filter cartridges in unit, second digit indicates number of horizontal filter rows, third digit indicates number of vertical filter rows.

MODULES Dust Collection

Features high efficiency cartridge filtration system that re-circulates clean filtered air. Open Louver and Spark Arrestor doors are available. Collector modules can be purchased separately.

- Heavy-duty construction, 12-gauge mild steel finish industrial blue
- Factory assembled module includes:
 - High efficiency cartridge filters with positive locking mechanism
 - High velocity venturi for efficient operation
 - Direct drive blower and motor 208, 230/460V, 60-Hz, 3 PH
 - Choice of Open Louver or Spark Arrestor Doors (Note the door depth - 18" vs. 5")
- 3-Pin timer board solid-state 115V factory adjusted at 100-milli-seconds on time, and a 10-second duration off time between pulses
- Compressed air requirements, clean filtered dry air, 6 CFM at 80 to 100 psi
- Complies with all Federal, OSHA and NFPA Regulations
- Optional deluxe control panel



Open Louver
recommended for dust
and sanding applications



Spark Arrestor
recommended
for all grinding
applications

Re-circulating clean air eliminates the need for expensive air make-up systems and outside ducting

Custom Designs Available



PARTS & FILTERS

Full Service Parts and Filters Department

GFS' quest for product quality and performance has resulted in a full line of accessories that have been designed and manufactured for durability and long lasting, trouble-free service. Great emphasis is placed on our engineering and workmanship so that GFS customers will receive the best products at competitive prices.

- Filters (all Makes & Models)
- Electrical Components
- Oven Components
- Lighting
- Motors
- Fans
- Exhaust Ductwork
- Doors
- Grates and Pans
- Panels
- Filter Racks
- Insulation
- Hardware
- Other Miscellaneous



Filters



Exhaust Fans



Fluorescent Light Fixtures



Control Panels



Ductwork

Approved Replacement Parts and Filters

GFS is also your approved full-line supplier for Parts and Filters for:

- Binks Booths
- DeVilbiss Booths
- JBI Booths & Ovens
- Blu-Surf Systems
- Milbanks Systems
- Other Spray Booth Manufacturers

Contact GFS for your local distributor!

Consult your Global Finishing Solutions sales representative for details of required installation, concrete pit, electrical wiring, conduit, air piping, roof penetrations and automatic fire suppression. The equipment installation location should be reviewed and approved by the local authorities having jurisdiction. All designs, specifications and components are subject to change at the manufacturer's sole discretion at any time without notice. Data published herein is informational in nature and shall not be construed to warrant suitability of the unit for any particular purpose as performance may vary with the conditions encountered.



Global Finishing Solutions • 800-848-8738 • info@globalfinishing.com
Osseo, WI • Dallas, TX • Monterrey, MX • Barrie, ON
www.globalfinishing.com