

the accordion



BETTER BAFFLE FOR LIQUID OVERSPRAY COLLECTION

The Accordion is designed to capture airborne liquid particulates and air dried fines through impaction by inertial separation and secondary straining.

Inertial Separation

Airflow is diverted through a series of directional changes within the baffle. The concave front wall directs airflow into the baffle. The inertia of particulates in the air stream cause impaction on the back wall. The air stream changes direction and exits leaving behind up to two inches of overspray in the accordion pocket.

Secondary Straining

The addition of polyester backing captures fine particulates that remain in the air stream upon exiting the baffle. The secondary stage increases arrestance efficiency and holding capacity.

Airflow Remains Uniform

Constant airflow improves the spray booth environment. Surface loading filters, such as fibrous media, fill directly behind the point of spray causing uneven loading. As airflow is impeded, particles hang in the air causing fog building bounce-back. The Accordion collects particles outside of the air stream in 2.25" deep pockets, eliminating face-loading, bounce-back and particle migration.

PART	DESCRIPTION	QUANTITY
STANDARD SERIES		
20S	20 x 20" (50.8 x 50.8cm)	40 baffles/box
25S	25 x 20" (63.5 x 50.8cm)	34 baffles/box
36S	36" x 30' (91.4cm x 9.14m)	1 baffle/box
1mS	39" x 33' (1 x 10m)	1 baffle/box
POLY-BACK SERIES		
20P	20 x 20" (50.8 x 50.8cm)	28 baffles/box
25P	25 x 20" (63.5 x 50.8cm)	24 baffles/box
36P	36" x 30' (91.4cm x 9.14m)	1 baffle/box
1mP	39" x 26' (1 x 8m)	1 baffle/box

CUSTOM SIZES AVAILABLE

Custom sizes are common as an OEM part in flat-line machines. Most any size can be achieved in the Standard and Poly-Back Series.

42 lb High Performance Liner Board
Standard Baffle Average Weight:
2.002 lbs/m² (0.908 kg/m²)

MAX PRESSURE DROP:
 0.5 to >1 inch wc (128 to >256 pa),
 subject to fan motor capability

AIR VELOCITY:
 49-197 fpm (0.25-1.00 m/s),
 subject to spray operation

SINGLE STAGE FILTRATION

PAINT ARRESTANCE: 98.3%
HOLDING CAPACITY: > 2.39 lbs/sf,
 11.67 kg/m² (> 6 lbs/20" pad)
SURFACE AREA: 4.74 sf / 1 sf of baffle

PRESSURE DROP
 0.05 inch wc (12 pa) @ 100 fpm (0.50 m/s)
 0.12 inch wc (30 pa) @ 150 fpm (0.75 m/s)
 0.22 inch wc (55 pa) @ 200 fpm (1.00 m/s)

Best used with tacky, slow-dry coatings:
 high solid enamels, epoxies, asphalts,
 varnish.

TWO STAGE FILTRATION

PAINT ARRESTANCE: 99.4%
HOLDING CAPACITY: > 2.44 lbs/sf,
 11.91 kg/m² (> 6.5 lbs/20" pad)
SURFACE AREA: 5.74 sf/ 1 sf of baffle

PRESSURE DROP
 0.10 inch wc (25 pa) @ 100 fpm (0.50 m/s)
 0.15 inch wc (37 pa) @ 150 fpm (0.75 m/s)
 0.25 inch wc (62 pa) @ 200 fpm (1.00 m/s)

Best used with flash dry coatings:
 enamels, primers, urethanes.