

AstroSeal® Type S

**High Quality
Side Access Systems
for High Efficiency
Particulate Air
(HEPA) Filter**



Designed to meet the stringent requirements of HEPA filter applications, AstroSeal Type S housings are engineered to perform reliably even in the toughest environments. The AstroSeal Type S was specifically developed to perform as efficiently as your HEPA filters. The innovative design ensures uniform and constant pressure against the sealing surface of the HEPA filter. Type S housings are available with prefilter tracks to meet the exacting specifications of HEPA filtration.

INDUSTRIAL WELDED CONSTRUCTION FOR RELIABLE PERFORMANCE

■ Standard Construction

14 gauge steel, intermittent welding with caulking for up to 10" positive or negative pressure. Galvanized or 304 Stainless Steel.

■ Optional Construction

14 gauge steel, continuously seal welded for up to 20" positive or negative pressure. Galvanized or 304 Stainless Steel.



AstroSeal Type S housing with access door open shows how the door rests on the pin hinge. The locking bolt and large gasket on the inside of the door are also shown.

■ Reinforced Doors

Standard 2" deep hinged access doors have internal welded reinforcement. The unique pin type hinge allows the doors to be precisely aligned prior to closure. A large, 1-1/2" wide neoprene rubber gasket surface forms the proper seal with "finger pressure" locking knobs. Each door has two large welded handles for ease of opening or lift off.

UNSURPASSED SEALING INTEGRITY

Factory pressure testing of the housing and filter sealing surfaces guarantees complete HEPA filtration integrity.

■ Gasket Seal Model

Gasket seal Type S housings have a rugged, crank lock mechanism which delivers over 1400 lbs. of force on each filter cartridge. This manual mechanism is actuated from the side of the unit and permits visual observation of gasket compression as pressure is applied. Each mechanism handles up to three filters wide. The crank mechanism is removable for easy cleaning.



■ Gel Seal Model

The gel seal model has a knife edge sealing surface for HEPA filters with a gel filled trough. The locking mechanism is a lever actuated type compatible with extractor clips on the filters.

PREFILTER CAPABILITY

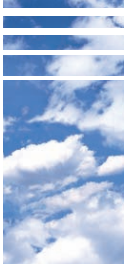
Type S housings are available with a 2" or 4" wide prefilter track. Blank off panels are provided to prevent prefilter bypass. Prefilters are accessed through the final filter access door.



Two-inch AAF AmAir® pleated filters are shown installed in the prefilter track on the upstream end of the housing in front of AstroCel® HCX final filters.

ASTROCEL® HEPA FILTERS

Available in a wide range of efficiencies, cell side materials, and separator designs, AAF manufactures and tests AstroCel filters to fit Type S housings.



AstroSeal® Type S

NUMEROUS OPTIONS FOR INSTALLATION FLEXIBILITY

■ Double Door Accessibility

A second door is available on units up to three filters wide. Two doors are standard on units 4 through 6 filters wide.

■ One-Half Size Units

Housings are available in one-half sizes (12" increments). Sizes 1/2 through 3 filters high; sizes 1/2 through 6 filters wide.

■ Insulation

Insulation consists of 2" thick, 4 pound density mineral wool. It is completely covered with the same material as the housing (14 gauge galvanized or stainless steel).

■ Weather Cover

For outside service a welded cover is available with a pitched top for precipitation runoff. Weather cover is standard on insulated units.

■ Pressure Testing

Factory testing of the housing and filter sealing surfaces up to 10" W.G.

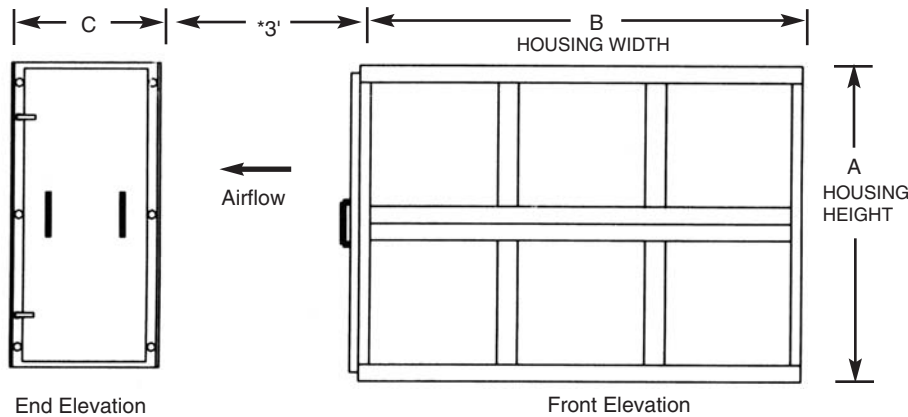
■ Static Taps

Taps across the filter sections are factory installed and plugged. Also available with a resistance gauge, shipped loose or installed.

■ Test Port

For in-place DOP field testing, a 1/2" welded test port is available located upstream of the filters.

ASTROSEAL TYPE S HOUSING DIMENSIONS



*Filters are serviced from the left side unless a right hand door is selected on units up to 3' wide. Filters must be serviced from both sides on units over 3' wide. Recommend 3' clearance for servicing. Left hand door location is standard. Right hand or both sides are optional.

ASTROSEAL TYPE S HOUSING DATA Airflow Capacity (CFM)

Filter Size H x W	Capacity in CFM* Filter Type				Filter Quantity	Housing Weight Lbs.
	Standard @ 1" w.g.**	AstroCel I @ 1.4" w.g.**	High Capacity HCX @ 1" w.g.** @ 1.4" w.g.**			
1x1	1050	1450	1500	2000	1	130
1x2	2100	2900	3000	4000	2	200
1x3	3150	4350	4500	6000	3	270
1x4	4200	5800	6000	8000	4	380
1x5	5250	7250	7500	10000	5	450
1x6	6300	8700	9000	12000	6	520
2x1	2100	2900	3000	4000	2	210
2x2	4200	5800	6000	8000	4	310
2x3	6300	8700	9000	12000	6	420
2x4	8400	11600	12000	16000	8	580
2x5	10500	14500	15000	20000	10	690
2x6	12600	17400	18000	24000	12	800
3x1	3150	4350	4500	6000	3	290
3x2	6300	8700	9000	12000	6	430
3x3	9450	13050	13500	18000	9	570
3x4	12600	17400	18000	24000	12	800
3x5	15750	21750	22500	30000	15	940
3x6	18900	26100	27000	36000	18	1080

Housing Size	Height A	Housing Size	Width B
1/2	15-1/8"	1/2	1'-1/8"
1	2'-3-1/8"	1	2'-1/8"
1-1/2	3'-3-5/8"	1-1/2	3'-1/8"
2	4'-3-5/8"	2	4'-1/8"
2-1/2	5'-4-5/16"	2-1/2	5'-1/8"
3	6'-4-5/6"	3	6'-1/8"
3-1/2	7'-1/4"	3-1/2	7'-1/4"
		4	8'-1/4"
		4-1/2	9'-1/4"
		5	10'-1/4"
		5-1/2	11'-1/4"
		6	12'-1/4"

Prefilter Depth	Housing Depth C
None	21-1/2"
2"	25"
4"	27"

*Interpolate for half sizes **Clean filter static pressure loss



For Additional Information Call
800.477.1214
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