

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 Ensures 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.

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.

Prefilter Capability

AstroSeal® 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.



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.



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.

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.



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ENVIRONMENTAL SOLUTIONS

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

Consists of 2" thick, 4 lb. 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" WG.

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 3/8" welded test port is available located upstream of the filters.

AstroSeal® Type S Housing Data

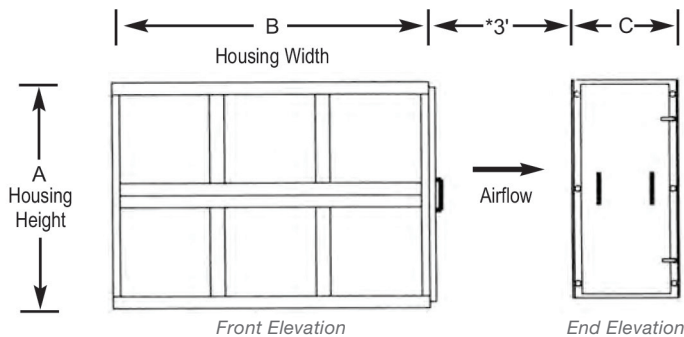
Airflow Capacity (CFM)

Filter Size* HxW (ft.)	Standard AstroCel® I		High-Capacity HCX		Filter Quantity	Housing Weight (Lbs.)
	@ 1" WG**	@ 1.4" WG**	@ 1" WG**	@ 1.4" WG**		
1x1	1,050	1,450	1,500	2,000	1	130
1x2	2,100	2,900	3,000	4,000	2	210
1x3	3,150	4,350	4,500	6,000	3	300
1x4	4,200	5,800	6,000	8,000	4	370
1x5	5,250	7,250	7,500	10,000	5	440
1x6	6,300	8,700	9,000	12,000	6	520
2x1	2,100	2,900	3,000	4,000	2	220
2x2	4,200	5,800	6,000	8,000	4	390
2x3	6,300	8,700	9,000	12,000	6	500
2x4	8,400	11,600	12,000	16,000	8	630
2x5	10,500	14,500	15,000	20,000	10	770
2x6	12,600	17,400	18,000	24,000	12	900
3x1	3,150	4,350	4,500	6,000	3	390
3x2	6,300	8,700	9,000	12,000	6	550
3x3	9,450	13,050	13,500	18,000	9	770
3x4	12,600	17,400	18,000	24,000	12	920
3x5	15,750	21,750	22,500	30,000	15	1,050
3x6	18,900	26,100	27,000	36,000	18	1,180

*Interpolate for half sizes

**Clean filter static pressure loss

AstroSeal® Type S Housing Dimensions



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

Housing Size	Height A
1/2	15-1/4"
1	27-1/4"
1-1/2	42-1/2"
2	54-1/2"
2-1/2	69-3/4"
3	81-3/4"
3-1/2	97"
4	109"

Housing Size	Width B
1/2	15"
1	27"
1-1/2	39"
2	51"
2-1/2	63"
3	75"
3-1/2	90"
4	102"
4-1/2	114"
5	126"
5-1/2	130"
6	150"

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

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