



Better Air is Our Business®

AmericanAirFilter® 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, 1½" 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.



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:

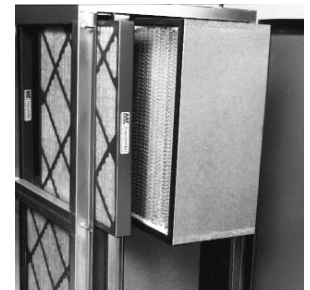
Gasket seal Type S housings have a rugged, crank-lock mechanism which delivers over 1400 lbs. of force on each filter cartridge. This manual mechanism is actuated from the side of the unit and permits visual observation of gasket compression as pressure is applied. Each mechanism handles up to three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

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.

AmericanAirFilter®

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 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.

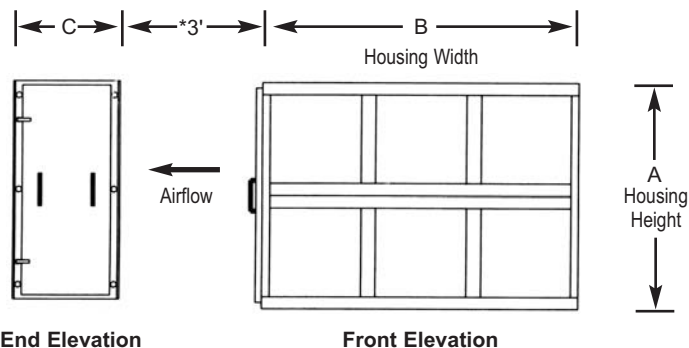
Test Port: For in-place DOP field testing, a 1/2" welded test port is available located upstream of the filters.

HVAC HEPA Housing Data Airflow Capacity (CFM)

Filter Size H x W	Standard AstroCel I		High Capacity HCX		Filter Quantity	Housing Weight Lbs.
	@1 in. w.g.**	@1.4 in. w.g.**	@1 in. w.g.**	@1.4 in. w.g.**		
1x1	1050	1450	1500	2000	1	130
1x2	2100	2900	3000	4000	2	210
1x3	3150	4350	4500	6000	3	300
1x4	4200	5800	6000	8000	4	370
1x5	5250	7250	7500	10000	5	440
1x6	6300	8700	9000	12000	6	520
2x1	2100	2900	3000	4000	2	220
2x2	4200	5800	6000	8000	4	390
2x3	6300	8700	9000	12000	6	500
2x4	8400	11600	12000	16000	8	630
2x5	10500	14500	15000	20000	10	770
2x6	12600	17400	18000	24000	12	900
3x1	3150	4350	4500	6000	3	390
3x2	6300	8700	9000	12000	6	550
3x3	9450	13050	13500	18000	9	770
3x4	12600	17400	18000	24000	12	920
3x5	15750	21750	22500	30000	15	1050
3x6	18900	26100	27000	36000	18	1180

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

AstroSeal® Type S Housing Dimensions



End Elevation

Front Elevation

*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	1'-3 1/4"
1	2'-3 1/4"
1 1/2	3'-6 1/2"
2	4'-6 1/2"
2 1/2	5'-9 3/4"
3	6'-9 3/4"
3 1/2	8'-1"
4	9'-1"

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

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



AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

ISO Certified Firm