



Better Air is Our Business®

AmericanAirFilter® HVAC HEPA

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

Designed to meet the stringent requirements of HEPA filter applications, HVAC HEPA housings are engineered to perform reliably even in the toughest environments. The HVAC HEPA 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. HVAC HEPA housings are available with prefilter tracks to meet the exacting specifications of HEPA filtration.

Industrial Welded Construction for Reliable Performance

Standard Construction

16 gauge steel, intermittent welding with caulking for up to 6" positive or negative pressure. Galvanized or 304 stainless steel.

Reinforced Doors

Standard 2" deep lift off access doors have internal welded reinforcement. 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

Gasket Seal Model

Gasket seal HVAC HEPA housings have a rugged, crank lock mechanism which delivers over 1400 pounds 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

HVAC HEPA 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.

AstroCel® HEPA Filters

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



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



HVAC HEPA

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 (16 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.

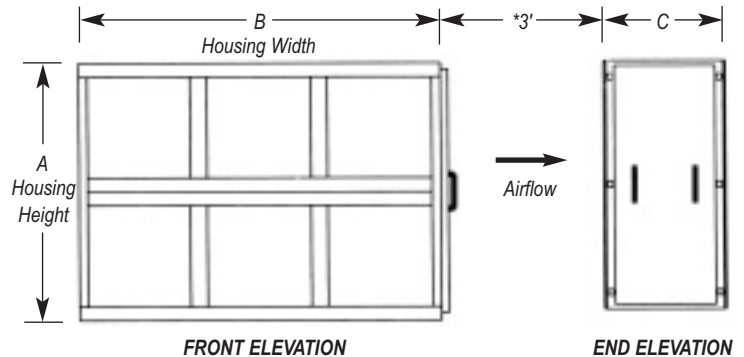
Pressure Testing

Factory testing of the housing and filter sealing surfaces up to 6" w.g.

Static Taps

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

HVAC HEPA Housing Dimensions



*Filters are serviced from the right side unless a left 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. Right hand door location is standard. Left hand or both sides are optional.

Housing Size	Height A	Housing Size	Width B
1/2	15 1/8"	1/2	1'-1/8"
1	2'-3 1/4"	1	2'-1/8"
1 1/2	3'-3 3/8"	1 1/2	3'-1/8"
2	4'-3 3/4"	2	4'-1/8"
2 1/2	5'-3 7/8"	2 1/2	5'-1/8"
3	6'-4 1/4"	3	6'-1/8"
		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"		

HVAC HEPA Housing Data Airflow Capacity (CFM)

Filter Size H x W	Capacity in CFM*				Filter Quantity	Housing Weight Lbs.
	Filter Type					
	Standard AstroCel I @1" w.g.**	Standard AstroCel I @1.4" w.g.**	High Capacity HCX @1" w.g.**	High Capacity HCX @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

*Interpolate for half sizes

**Clean filter static pressure loss



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ISO-9001 Certified Firm

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

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