

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" wing nuts. 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 1,400 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.



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



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.

HEPA

AAF HEPA filters feature a wide range of efficiencies, cell side materials and separator designs. AAF manufactures and tests every filter to ensure it meets its rated efficiency.



BETTER AIR IS OUR BUSINESS®



ENVIRONMENTAL SOLUTIONS

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 four through six filters wide.

One-half Size Units

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

Insulation

Insulation consists of 2" thick fiberglass. 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" WG.

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

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"

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

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	138"
6	150"

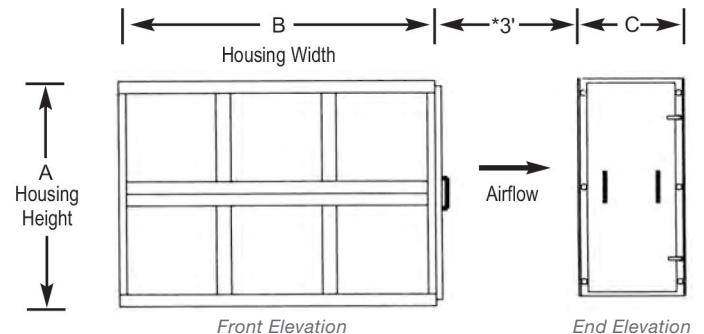
HVAC HEPA Housing Data

Airflow Capacity (CFM)

Filter Size* HxW (ft.)	HEPA Filter		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	120
1x2	2,100	2,900	3,000	4,000	2	190
1x3	3,150	4,350	4,500	6,000	3	270
1x4	4,200	5,800	6,000	8,000	4	330
1x5	5,250	7,250	7,500	10,000	5	400
1x6	6,300	8,700	9,000	12,000	6	470
2x1	2,100	2,900	3,000	4,000	2	200
2x2	4,200	5,800	6,000	8,000	4	350
2x3	6,300	8,700	9,000	12,000	6	450
2x4	8,400	11,600	12,000	16,000	8	570
2x5	10,500	14,500	15,000	20,000	10	690
2x6	12,600	17,400	18,000	24,000	12	810
3x1	3,150	4,350	4,500	6,000	3	350
3x2	6,300	8,700	9,000	12,000	6	500
3x3	9,450	13,050	13,500	18,000	9	690
3x4	12,600	17,400	18,000	24,000	12	830
3x5	15,750	21,750	22,500	30,000	15	950
3x6	18,900	26,100	27,000	36,000	18	1,060

* Interpolate for half sizes

** Clean filter static pressure loss



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

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BETTER AIR IS OUR BUSINESS®

North & South America

AAF International
9920 Corporate Campus Drive, Suite 2200
Louisville, KY 40223-5000, USA
Tel: 1 502 637 0011
Toll Free: 1 800 477 1214
Email: aafep@aafintl.com