

HOUSING DATA SHEET

HEPA PURO® Seal HSA

Standard side access HEPA filter housing

Purolator Filtration Systems

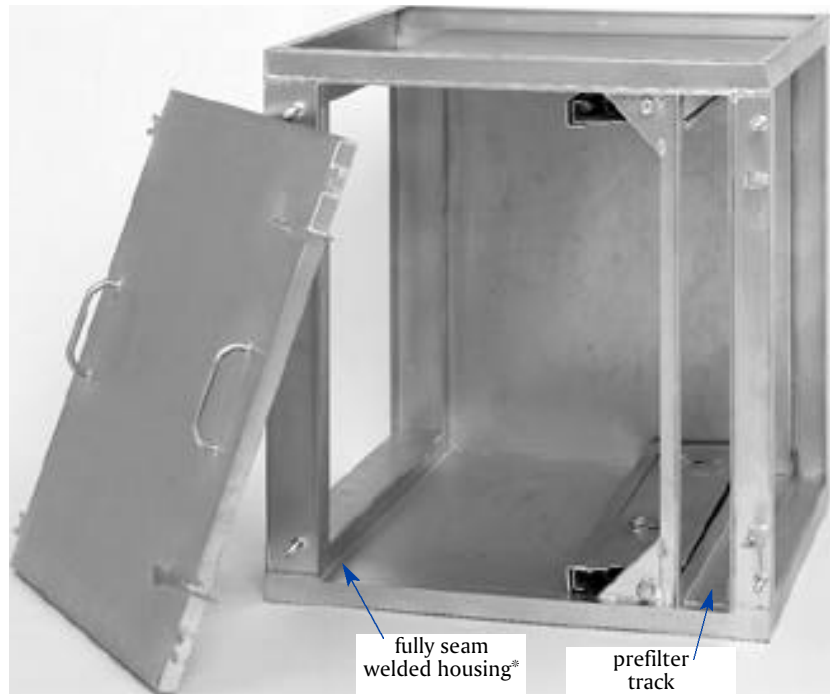
Introduction

For Commercial & Industrial applications requiring gasket and fluid seal ULTRA-CELL® filtration—95%, 99.97% or 99.99% efficiency on .3 micron particulate—the Purolator HSA state-of-the-art crank lock system provides consistent compression and continuous sealing. A broad range of configurations, with and without pre-filter tracks, are available to accommodate most system requirements.

Each housing is constructed with specific features which increase product versatility, integrity, and ease of use.

Construction features

- Factory assembled of 14-gauge galvanized steel into a one-piece construction.
- For added strength, and to eliminate air leakage, all seams are intermittently welded and caulked.
- Each housing can withstand up to $\pm 3''$ static pressure. (Contact factory for any additional pressure requirements.)
- Our crank lock mechanism creates a positive seal gasket seal between the filter and housing (see photo at right). Fluid seal models also available.
- Housings are designed to allow easy access and removal of all pre- and final-filters. Configurations over two filters wide include an option for crank lock activation from the left or right side.
- One inch outwardly turned flanges are included on all units. Custom flanges are available upon request.



Options

- Weatherproofing: Refers to a pitched roof of 14-gauge galvanized or stainless steel material; also includes rainguard over the door.
- Double wall insulated construction: Each housing door is insulated with a 1" fiber board between (1) piece of galvanized or stainless steel.
- *Fully seam welded housing.

(Options continued on back side)

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Options continued

- Epoxy coated housings: Contact factory for pricing and lead time.
- Construction materials: All HSA housings are available in 14-gauge, 304-2B stainless steel. Contact factory for pricing.
- Custom flanged housings: All housings are available with custom flanges to match air handler specifications. Contact factory for information.
- High temperature/pressure units: For high temperature applications, special silicone seals are used to withstand conditions up to 500°F. High pressure vessels with special construction are available—contact factory for information. Standard housing temperature is 250°F.

Housing Options

The following housing options are available with the PURO Seal VBA vee-bank side-access filter housing:

CA	Constructed of 16-gauge galvanized steel
CB	Constructed of 16-gauge 304 stainless steel
WP	Weatherproof
IN	Insulation
EP	Epoxy Coating
HP	High Pressure
HT	High Temperature
DW	Double-wall Insulated
LL	Lifting Lugs
DF	Drilled Flanges
DD	Double Door
DP	DOP Ports
BA	Bottom Access
VF	Vertical Flow
U	Universal Frame
SP	Static Pressure Port
SG	Static Pressure Gauge (not installed)
SI	Static Pressure Gauge (installed)
AL	Left-handed Access
PL	PURO Lok Design

Filter Selection

Purolator crank lock HSA housings will accommodate the following filters:

Pre-filters: Fits 2" and 4" pleated filters, with nominal face size 24" x 24", and 12" x 24".

ULTRA-CELL® filters: Fits filters with actual face size 24" x 24", and 12" x 24". Filters are gasketed on air entering side for a fully seam welded housing, and downstream for an intermittently welded housing. Under-sized filters i.e. 23-3/8" x 23-3/8" can be fitted as well. Contact factory for information.

Large unit configurations

All HEPA Side Access (HSA) housings can be configured to larger models above 3x3 units. These units are available factory intermittently welded and sealed, or can be assembled during installation at job site by bolting or welding them together. Filter removal will be from both sides on housings larger than 3x3 units. Housings taller than 4 units high will ship in two pieces.

Calculating housing depths

Note dimensions for installation flanges included on units are as follows:

Upstream:	Top/bottom: 2-3/4 Side: 1-3/4
Downstream:	Top/bottom: 1-1/2 Side: 1-3/4

Weatherproofed and custom units use various flange arrangements. Contact factory for more information.

Housings are available in (6") and (12") final filter depths:

- with no pre-filter—21-1/2" deep
- with a 2" pre-filter—25" deep
- with a 4" pre-filter—27" deep

Dimensions

Height	Dimension	Width	Dimension
1/2	15-1/4"	1/2	12-1/8"
1	27-1/4"	1	24-1/8"
1-1/2	39-3/4"	1-1/2	36-1/8"
2	51-3/4"	2	48-1/8"
2-1/2	64-1/4"	2-1/2	66-1/8"
3	76-1/4"	3	72-1/8"

All dimensions are outside dimensions and are noted in foot and half-foot increments. A (1") turned-out flange is included for each of the four (4) sides. Dimensions are calculated based on specification of 24 x 24 filters. For other size data, contact factory.

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