The BLC HEPA Lock Housing is engineered to provide a rugged one piece housing, completely factory assembled and ready for immediate installation when received at the job site. Unit sizes range from 1 foot wide x 2 feet high to 8 feet wide x 6 feet high. (Larger unit capacity may be achieved by stacking or butting the units together in a modular fashion.)

The unit is designed to accommodate either a 6 or a 12 inch deep HEPA Filter. The Housing can be equipped with either a 2” (unit depth of 26”) or 4” (unit depth of 26”) prefilter track if desired. And no downstream or upstream access space is required due to side service and installation of filters.

BLC’s HEPA locking mechanism is operated by an over-center type clamp arrangement which forces the filter cell against the channel grid system on the downstream side of the unit. This completely seals off the periphery of each HEPA Filter. The spring loading capacity of the locking mechanism maintains a positive pressure of 600 ft. lbs. per filter cell.

BLC’s HEPA Lock Housings are constructed of 16 gauge aluminized steel. Aluminized steel provides superior corrosion and heat resistance, resulting in longer product life and appearance. Aluminized steel offers an improved overall appearance when compared to galvanized material. Aluminized steel conforms to ASTM Specification A463 and is used for such applications as space heaters, mufflers and incinerators which are subjected to extremely corrosive conditions. We are currently the only manufacturer who constructs the HEPA Lock Housings of aluminized steel.

The BLC HEPA Lock Housing is supplied standard with 2 pan type doors. These doors are crossbroke to resist positive and negative pressure of air flow, and are fully removable with easy turn hand knobs. Each housing’s door access perimeter is fully gasketed with an EPDM gasket providing a complete airtight seal. The standard pressure rating is 5” W.G

A 2 (unit depth of 26”) or 4 (unit depth of 26”) inch prefilter track is available to accommodate pleated filters or any other suitably sized panel type prefilters.

It is however strongly recommended that a BLC CLEAN-LINE high efficiency Side Access Housing with Ultra Flo 10 bag filters be used upstream of the BLC HEPA Lock Housing. This design would remove large particulate matter before reaching the HEPA Filters, thereby extending the life of these more costly filters.

BLC’s HEPA Lock has a depth of 26 inches in the direction of air flow and requires no upstream or downstream access.

All units are supplied with a 1 1/2” inch outer flange for easy field connections to ductwork.

Every interior or exterior housing seam, where applicable, is sealed to prevent air bypass by use of a permanent sealer caulk.
Materials of construction for the BLC HEPA Lock Housing should be determined by field conditions to which they will be exposed. Most applications can be met by BLC’s superior construction, but where necessary the housings may be constructed from Stainless Steel. Also, an epoxy or plasite coating can be applied when specified. Please consult factory.

HEPA Lock Housings may be Double Wall insulated. Standard insulation offered is 1 inch thick with 1 1/2 pound density. The insulation is applied to the interior surface of the doors and the exterior surface of the top and bottom panels. The insulation is then enclosed and captured with 24 gauge aluminized panels ensuring its integrity for the life of the unit. BLC’s Double Wall insulation combats vibration, noise and condensation to protect the quality of the filtered air.

Weatherproof units for outside installations provide a pitched roof, rain guards over the doors and permanent sealing at all seams to secure the Housing against the elements. Finally, flange adapters for all commercial air handling units and flange adapters to meet any ductwork requirements are also available.

Evidence of double walls of the housing:
- **Housing**: Model number 26HL04X02/12
- **Dimensions**: 26" Depth, HEPA Lock
- **Units**: 04- Unit Width, 02- Unit Height, 12- HEPA Filter Depth

**Model Number Key**

<table>
<thead>
<tr>
<th>Height Code (Nominal)</th>
<th>Actual Height</th>
<th>Model Number</th>
<th>CFM @ 500 FPM</th>
<th>Filter Quantity</th>
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</thead>
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<td>75 7/8&quot;</td>
<td>26HL04X02</td>
<td>3000</td>
<td>2000</td>
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</tbody>
</table>

1. H denotes half size filter - 12 x 24 HEPA.
2. F denotes full size filter - 24 x 24 HEPA.
3. denotes unit requires a 12 x 12 HEPA blank-off panel, which is supplied.
4. Unit depth is 26" with either the 2" or 4" prefilter track.
5. CFM shown is based on use of High Capacity HEPA Filters.