



Cannabis HVAC Filtration



In-Line HVAC & HEPA Filter Housings

Industry Air Sales Ltd.

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In-line (or side-access) filter housings are suitable for return-air, exhaust-air and supply-air HVAC systems that require enhanced particulate control. Typically, these housings have two filter stages: 2" or 4" prefilter stage for MERV8-MERV14 ASHRAE efficiency filters, plus 12" deep gasket-seal final filter section.





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Standard Construction for both types of housings is 16-gage Aluminized-steel, with stitch-weld and caulking on all seams. Optional construction is 16-gage 304L stainless-steel.

Housings are modular construction and suit industry-standard 24x24 and 12x24 filters.

Housings have doors on both sides, and doors have outward-turned flanges and gussets to ensure rigid and durable construction. All filter access doors are fully gasketed with 0.25" thick closed-cell neoprene to ensure leak-free operation at +/-6"wc operation. Door latches are heavy-duty spring-load star-knobs on 0.25" thread.





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Industry Air Sales (IAS) offers two basic types of gasket-seal filter housings: HEPA Bolt-Lock and HEPA Clamp-Lock.

HEPA Bolt-lock uses threaded bolts at each corner to seal the HEPA/ULPA filter(s) against an upstream filter seal-face (*see picture left*).

HEPA Clamp-Lock uses two cam-operated mechanisms (one at top, one at bottom) to seal the final filters.

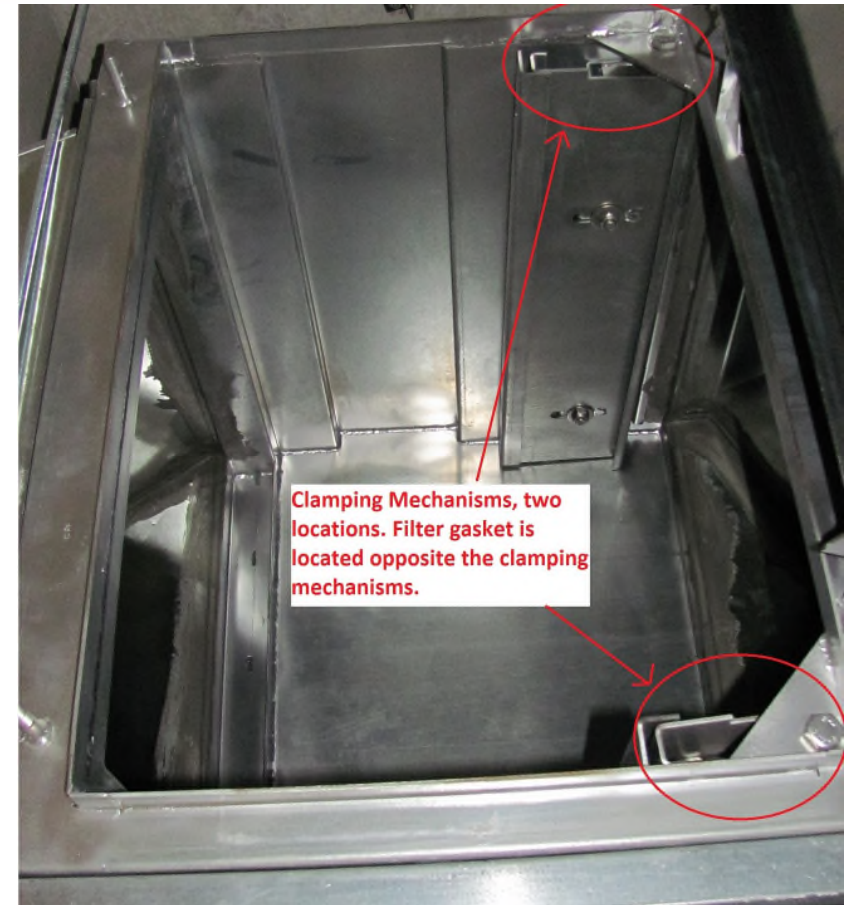


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HEPA Crank-Lock housing uses two cam-operated mechanisms (one at top, one at bottom) to seal the final filters against a smooth, upstream sealing surface (seal-face) inside the housing. A driver is used to turn the two threaded rods, causing the cams to move a U-channel laterally and squash the filter gasket against the seal-face.

The housing has doors on both sides, but the clamping mechanism is accessed from one side only.





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HEPA Bolt-Lock housing uses four corner-mounted bolts to seal each 24x24 or 12x24 final filter against a one-piece, laser-cut sheet-stock that becomes a filter seal-face. The one-piece sheet is stitch-welded and caulked around its entire perimeter to create an air-tight seal when the bolts are tightened, compressing the filter gasket against the seal-face. The bolts are on the clean-air side of the filter, keeping them free of particulates and other contaminants. Modular housings are up to three filters wide, with doors and access required on both sides. Always start with the inside filters when installing so that there is good access to the clamping bolts from both sides of the housing.



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Standard Features:

Lift-off hinges are provided on every filter access door. *(See pic at right)* This facilitates filter access in tight spaces.



Heavy-duty door latches are provided on every door to allow excellent gasket compression while maintaining good form to the stiffened and gusseted filter access door.



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Housing Options:



DOP Test Ports are available for HEPA/ULPA filter challenge. *(see pic at left)*



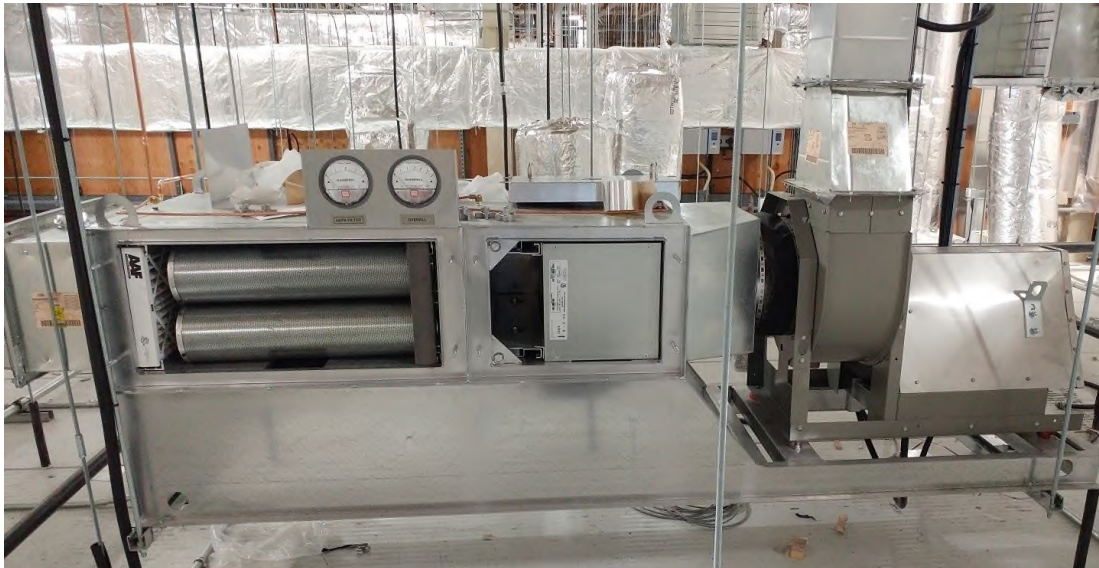
Filter differential pressure gages & transmitters are an available option on any in-line filter housing. Gages are strongly recommended for any housing using HEPA or ULPA filters.



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Housing Options:



Filter-Fan Units can be packaged with any in-line filter housing. HEPA/ULPA filter housings can be mated to utility fans and they can also be put into series with other filter housings including carbon-tray or carbon-canister housings to address both chemical/odor and particulate capture.

(see pic at left of HEPA-HEPA filter fan unit)