Northland
FILTER INTERNATIONAL, LLC

Metal Frames

- HEPA Holding Frame
- Fluid Seal Frame Designs
- Available Metal Frame Designs

Ultraseal Filters are HEPA filters having efficiencies of 99.97% , 99.99% , or 99.999% on 0.3µm per Mil. Standard 282 or IEST-RP-CC001.3 Types A and C per Section 4.2.

These filters are available in a variety of sizes, in framing materials of wood, aluminum, galvanized steel, and stainless steel. They are available in box, Double Turned Flange (DTF), or single header styles.

The standard models can be utilized up to 220ºF, and 100% RH.

A High Temperature version is available for temperatures up to 500◦ **>** ☎ for prices

Northland Ultraseal HEPA filters are designed to meet the critical filtration requirements where airborne contaminants can cause damage in manufacturing processes or may cause health hazards.

Only materials that meet our stringent quality standards are utilized. All manufacturing steps are closely monitored to insure that every filter will perform as expected.

Ultraseal filters are available in a variety of framing materials, which include particleboard, galvanized steel, aluminum and stainless steel. The gasket type sealing frames are available in double turned flange (DTF), and single header styles in metal, and box and single header styles in wood. These frames are also available in Gel Seal style. They are available in three flow rate capacities to meet varying fan capacities of Standard, Low Resistance and High Capacity.

Ultraseal filters are certified to be a minimum of 99.97% @ 0.3 µm particles and meet the requirements of IEST RP-CC-001.3, type A filters. Scanned Ultraseal filters are certified to be a minimum of 99.99% @ 0.3 µm particles and meet the requirements of IEST RP-CC-001.3, type C filters.

Ultraseal filters are constructed to perform at temperatures up to 220°F (104°C), and at 100% relative humidity. High temperature Ultraseal filters are available to operate continuously at temperatures up to 500°F (260°C).

All filters are unconditionally guaranteed against manufacturers' defects for 30 days from date of invoice only.

Prices are subject to change without notice. All prices are NET, plus freight.

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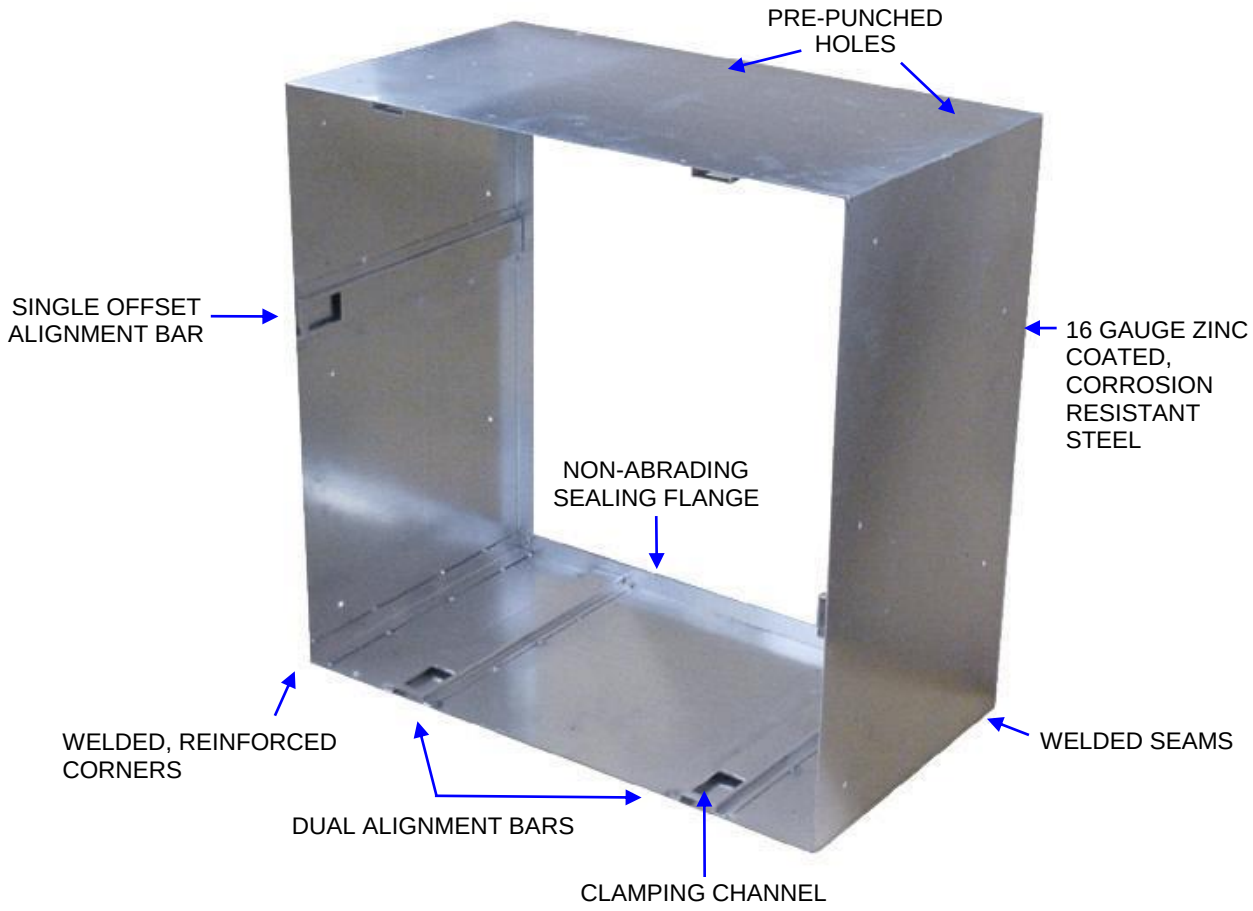
HEPA Holding Frame



DESCRIPTION:

HEPA Holding Frame is designed for plan and spec or retrofit of single or multiple bank filter installations. Both wood and metal filters are compatible.

CONSTRUCTION:

Constructed from 16 gauge zinc coated, corrosion resistant steel.
Dual alignment bars on the bottom and top allow for ease of installation and replacement of absolute filters
A single offset alignment bar is permanently attached to ach side to further allow positive positioning of the filter.
Structural rigidity is enhanced by single turned, welded corners.

APPLICATIONS:

AIR STERILIZATION SYSTEMS
CULTURED PRODUCT FACILITIES
CLEAN ROOMS
COMPUTER ROOMS
PHARMACEUTICAL MARKETING
PRECISION ASSEMBLY
FOOD & BEVERAGE PROCESSING
ELECTRONIC MANUFACTURING

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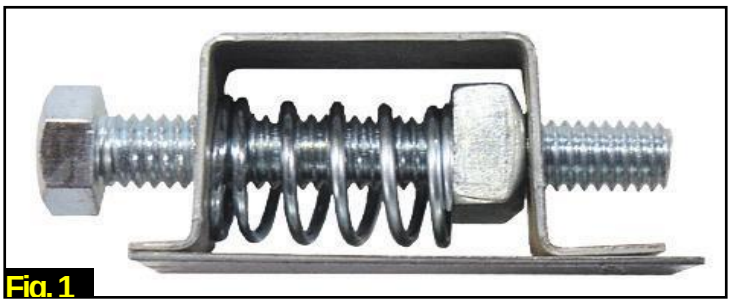
Fig. 1

LEAK-FREE SEAL
Each frame comes equipped with a minimum of (4) removable, spring loaded clamps (FIG. 1).

A guaranteed leak-proof seal is assured by the constant pressure applied against the filter gasket by the filter clamps high torque springs. The constant pressure compensates for any loss in gasket memory or variation in set that can cause bypass.

Elimination of bypass is further assured by a non-abrading, flat planed filter gasket sealing flange.


Fig. 2

SAFE HANDLING
Clamps and alignment bars are located well within the holding frame, eliminating sharp protrusions, thereby avoiding possible injury installer and damage to the filter (FIG. 2).

EASY FIELD ASSEMBLY
All frames are pre-punched and designed for easy field assembly. Pre-punched holes align with adjacent frames for applications of multiple bank installations (FIG. 3).

Banks consisting of four or more filters in height or width will require structural steel for support.

For single frame installation, the same pre-punched holes hold the frame in place within the duct.

To insure leak-free performance, caulk spaces between each frame.

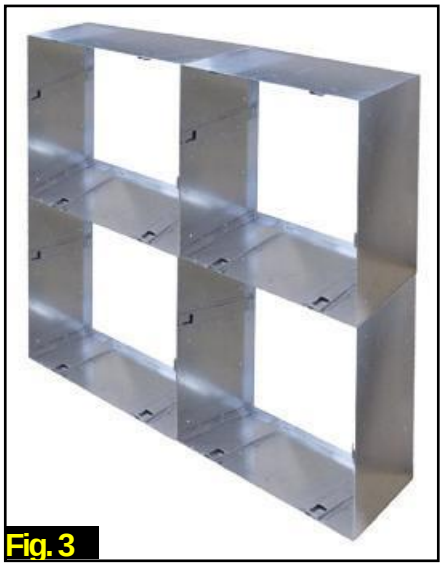
Fig. 3

NOTES:
- Stainless, Aluminum, and Special Coatings are **OPTIONS.**
- Standard Sizes

MODEL	HEIGHT	WIDTH	DEPTH
A2424A	24 7/8	24 7/8	9 ¾
A1224B	12 7/8	24 7/8	14
A2424B	24 7/8	24 7/8	14
A2430B	24 7/8	30 7/8	14

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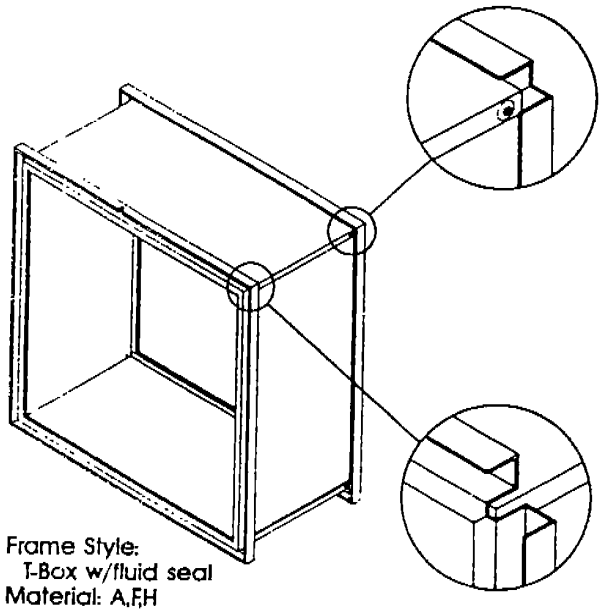
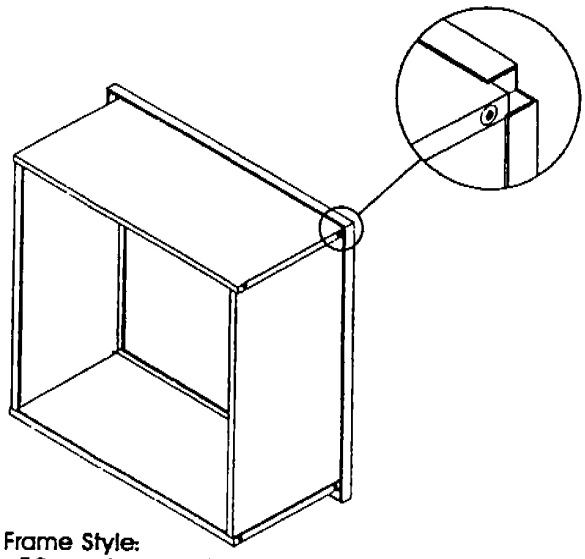
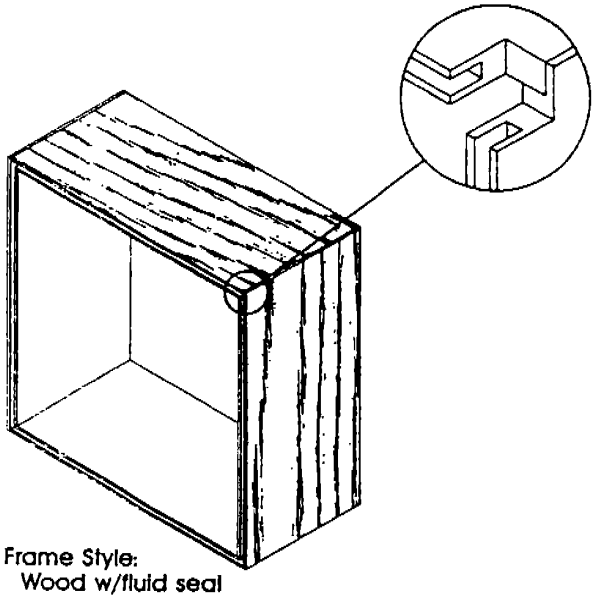
Fluid Seal Frame Designs



Frame Style:
T-Box w/fluid seal
Material: A,F,H



Frame Style:
T-Box w/reverse fluid seal
Material: A,F,H



Frame Style:
Wood w/fluid seal

Material Options

1. Particle Board - ¾"
2. Fire Retardant Particle Board - ¾"
3. Exterior Grade Plywood - ¾"
4. Fire Retardant Plywood - ¾"

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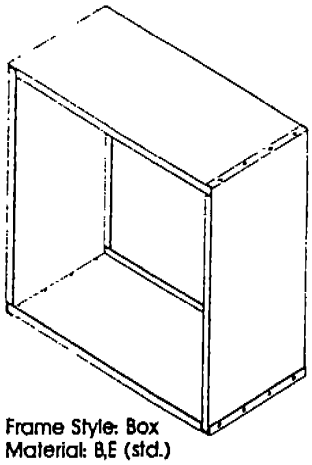
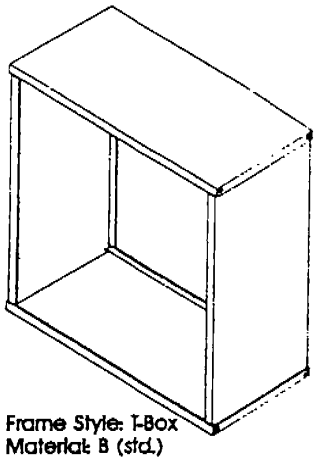
Available Metal Frame Designs

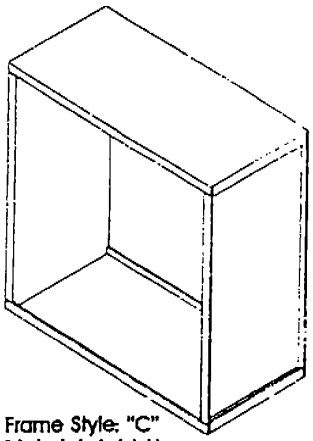
with Material Options



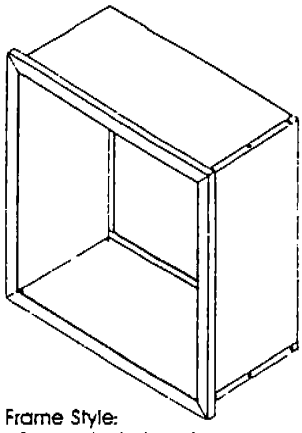
Frame Style: Box
Material: B,E (std.)



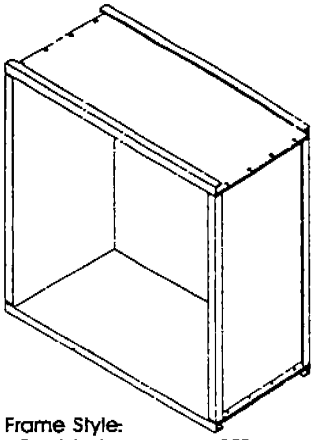
Frame Style: T-Box
Material: B (std.)



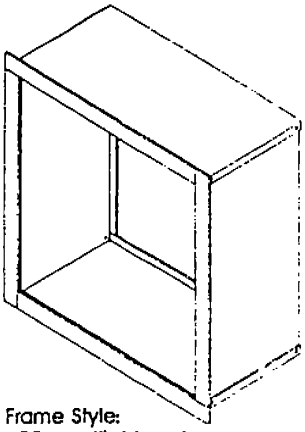
Frame Style: "C"
Material: A (std.)



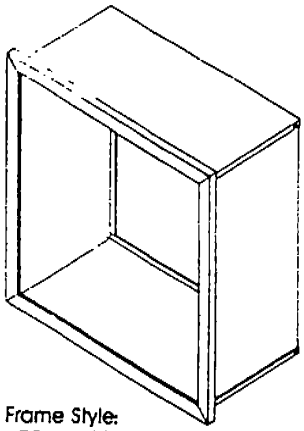
Frame Style:
Box w/single header
Material: D,E (std. for low eff.)



Frame Style:
Double turn flange (DTF)
Material: A,B (std.)



Frame Style:
T-Box w/flat header
Material: B (std.)



Frame Style:
T-Box w/single header
Material: A,B (std. for high eff.)

Material Options:

A. Zinc coated steel - 16 ga.	F. Aluminum - 14 ga. (.063")
B. Zinc coated steel - 18 ga.	G. Aluminum - 18 ga. (.040")
C. Zinc coated steel - 26 ga.	H. Stainless steel 304-2B - 16 ga.
D. Galvalume - 20 ga.	I. Stainless steel 304-2B - 18 ga.
E. Galvalume - 24 ga.	J. Stainless steel 304-2B - 24 ga.

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