



**120 CFM
Filter Tray**



**600 CFM Gas Filter Assembly Housing
(with filter trays removed)**



1200 CFM Gas Filter Assembly



Fixed Installation Filter Application (8th Army)

Ordering Data:

Gas Filter Tray, 120 CFM 4240-01-312-9146
 Gas Filter Assembly, 600 CFM 4240-01-313-0721
 Gas Filter Assembly, 1200 CFM 4240-01-312-2940

Contact Item Manager for availability and current pricing information.

Dimensions (H x W x L in inches):

Gas Filter Tray, 120 CFM 3.5 x 23.8 x 33.6
 Gas Filter Assembly, 600 CFM 24.0 x 24.2 x 28.2
 Gas Filter Assembly, 1200 CFM 24.0 x 24.2 x 50.6

Weight (lbs):

Gas Filter Tray, 120 CFM 55
 Gas Filter Assembly, 600 CFM 433
 Gas Filter Assembly, 1200 CFM 780

For Additional Information, Contact:

Item Manager: Soldier, Biological and Chemical Command
 Attn: AMSSB-HB (RI), Rock Island, IL 61299-7390
 Phone: (309) 782-4265 or (309) 782-5455

Material Developer: Edgewood Chemical Biological Center
 Attn: AMSSB-REN-P, APG, MD 21010-5424
 Phone: (410) 436-8088 or (410) 436-5512

Or Email:



**Fixed Installation
Filters (FIF)**



**NBC filtration
for Fixed Site
applications**



Fixed Installation Filters Components and Features

Use/Function:

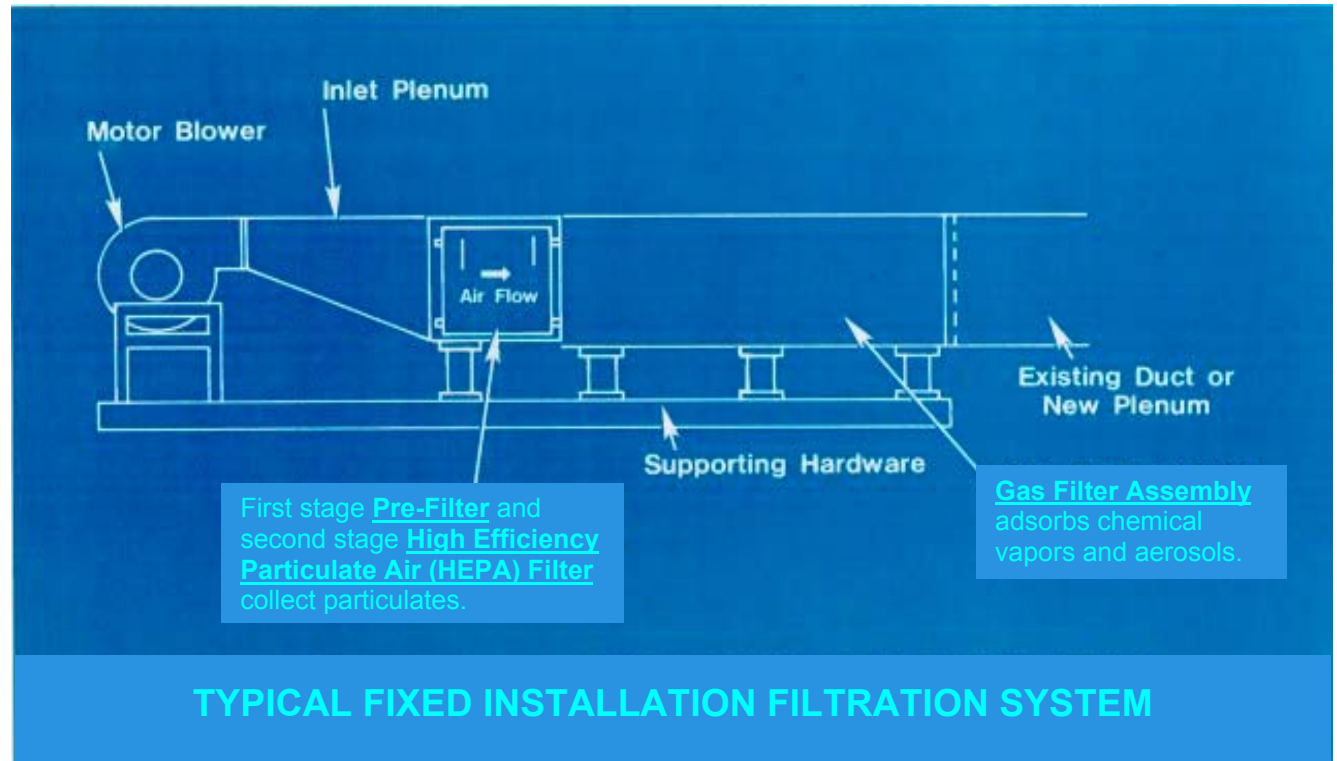
Fixed Installation Filters (FIF) are designed to provide larger capacity NBC filtration for hardened fixed sites, shelters, underground shelters for command and control, medical, rest and relief, as well as a variety of other applications. The FIF system minimizes infiltration of NBC contamination, allowing personnel to perform their duties unencumbered by individual protection equipment.

Physical Description:

A typical fixed installation filtration system filters out contamination in a three-stage process. In the first stage, a pre-filter collects large, particle-size dust. This prevents the subsequent "clogging" of second and third stage filter elements. In the second stage, a high efficiency particulate air (HEPA) filter collects sub-micron-size particles, such as biological agents and radiological particles. In the third stage, a gas filter adsorbs toxic chemical vapors and aerosols.

The modular 600 CFM and 1200 CFM gas filter assemblies are comprised of a series of stackable, refillable, stainless steel carbon trays, each with 120 CFM capacity. The 600 CFM gas filter assembly uses five of these stackable carbon trays, and the 1200 CFM uses ten trays. Each carbon tray is filled with activated carbon impregnated with copper, silver, zinc and molybdenum salts, and triethylenediamine (ASZM-TEDA). ASZM-TEDA carbon is the most commonly used adsorbent in "single-pass" carbon filters (i.e., non-regenerable filters).

These gas filter assemblies are interchangeable with available commercial pre-filter and HEPA filters, and side lock filter housings. They are also interchangeable with the current wood-frame military gas filters.



Design Characteristics:

- Provides effective filtration at a temperature range from -25°F and $+125^{\circ}\text{F}$.
- Low filter pressure drop (1 iwg for 1200 CFM and 0.7 iwg for 600 CFM)
- 120 CFM filter trays are modular, refillable and reusable.
- Stainless steel filter tray and housing parts.
- Easy to install and maintain.
- Completely decontaminable.
- Filter trays packaged for long-term storage without degrading protection.
- 5-year extendable shelf-life.



Surety Lab 5000 Fixed Installation Filter