



Dry Filter Unit DFU

Description

There are two air sampling devices named the Dry Filter Unit (DFU); the DFU 1000 and the DFU 2000. The purpose of both DFUs is to collect bio-particulates from ambient air for subsequent analysis using Hand Held Assays (HHAs), Polymerase Chain Reaction (PCR), or other microbiological confirmatory techniques. The DFU 1000 is configured in a one-person portable, weather-tight carrying case and can be operated with either AC or DC power. The DFU 2000 consists of the DFU 1000 sampler with blower motor and casing; air inlet with filter assemblies for placement of filters; an exterior shelter for protection in harsh environments; a mast extending up to nine feet in height; and a preseparator to limit the intrusion of large particles (100-150 microns), rain, or insects. Both DFU models are rated for continuous duty (40,000 hour life) and require minimal training and maintenance.

Mission

To collect bio-particulates from ambient air for subsequent analysis to determine the presence of biological warfare agents and enhance survivability of U.S. Forces.

Capabilities

- Collects air samples using one micron filters
- Identify 10 biological warfare agents simultaneously when analyzed via HHA

Users

US Navy, US Marine Corps, US Army, US Air Force

Status

Sustainment



DFU 1000

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