FORENSICIDENTIFICATIONPRODUCTS

BIOLOGICAL
SAFETY CABINETS
CLASS A2

EVIDENCE
DRYING CABINETS

FINGERPRINT
DUSTING HOODS

NINHYDRIN
PROCESSING
HOODS

CYANO
FUMING HOODS

PCR-CLASS I BIOLOGICAL
SAFETY CABINETS

LETTER OPENING
STATIONS

MICROZONE
CORPORATION

Forensic Identification Products

General:

Microzone offers a complete line of pre-engineered portable containment products for use in forensic laboratories. These products provide either a degree of user protection while handling crime evidence exhibits or a clean sterile environment while analyzing crime evidence exhibits or a combination of both these environments.

Product Applications:

Fingerprint Dusting Hoods offer a negative pressure re-circulating self contained work zone with integral primary pre-filtration media filter and secondary HEPA filtration. Generally used to isolate crime scene exhibits while containing and reducing the exposure to the investigator from potentially hazardous airborne particles created by the dusting process.

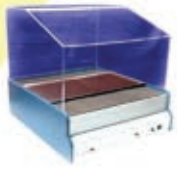
Ninhydrin Processing Hoods feature a negative pressure self contained work zone with integral exhausting consisting of a primary pre-filtration media filter followed by secondary CARBON filtration. Generally used to isolate crime scene exhibits while containing and reducing the exposure of potentially hazardous airborne vapors created by the ninhydrin process.

Evidence Collection/Drying Hoods offer a negative pressure re-circulating self contained work zone with integral primary pre-filtration media filter and secondary HEPA/CARBON filtration. Generally used to isolate and dry crime scene exhibits which may be soiled with potentially infectious materials. The unit contains and reduces the exposure to the investigators from potentially hazardous airborne particles released from the crime scene exhibits.

PCR-Class 1 Biological Containment Cabinets feature a ventilated inward airflow design with integral exhaust combo HEPA/CARBON filtration used to isolate crime scene exhibits and perform PCR work while reducing exposure from contaminating airborne particles and odors.

Cyano Fuming Hoods feature a negative pressure self contained work zone with integral primary pre-filtration media filter and secondary CARBON filtration. Generally used to isolate crime scene exhibits while containing and reducing the exposure of potentially hazardous airborne vapors created by the cyano fuming process.

Biological Containment Hoods offer a negative pressure re-circulating self contained work zone with integral supply and exhaust HEPA filtration. Generally used to isolate and dry crime scene exhibits which may be soiled with potentially infectious material. This unit provides both the investigator and the exhibit with a high degree of protection. The sterile work volume contains the infectious agents thereby protecting the investigator and eliminates cross contamination of the exhibit from exposure to particles located in the laboratory.



Letter Opening Containment Hoods offer a negative pressure re-circulating self contained work zone with integral primary pre-filtration media filter and secondary HEPA/CARBON filtration. Generally used to isolate suspicious specimens which may contain potentially infectious material while containing and reducing exposure to the investigator of potentially hazardous airborne particles.

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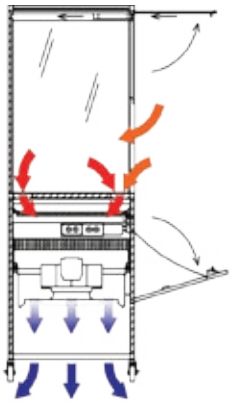
Fingerprint Dusting Hood

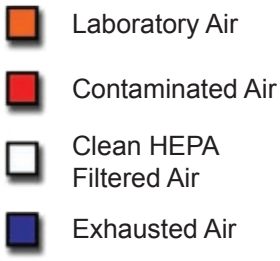
The Fingerprint Dusting Hood was developed for use in the Forensic Laboratories to provide a safe environment while dusting evidence for latent finger prints. The dusting operation is unimpaired while the exposure to potentially hazardous particulates created during the dusting procedures is greatly reduced.
HEPA (High Efficiency Particulate Air) filtration technology is utilized to remove 99.99% of all particles 0.3 microns and larger thereby ensuring that all air discharged from the hood is essentially dust-free. Our systems are completely self contained, no external ducts or exhaust connections are required.

4' Console Model

2' Bench Top Model



Airflow



Airflow Legend

MODEL	STYLE	WORK VOLUME	ELECTRICAL *
FPH-2-2-BT	Nominal 2 foot bench top	24" x 24" x 20"	115V, 3AMPS, 60HZ
FPH-2-4	Nominal 4 foot console	24" x 48" x 36"	115V, 3AMPS, 60HZ
FPH-2-6	Nominal 6 foot console	24" x 72" x 36"	115V, 3AMPS, 60HZ

Features

- Self contained with energy efficient design
- Stainless steel work volume with removablle work tray
- Integral convenience electrical power outlet
- Washable primary foam pre-filtration system
- Integral Fan/HEPA system rated 99.99% efficient at 0.3 microns
- Built-in easy on/off controls and filter status monitor
- Variable fan speed settings to control airflow
- Combination flip-up/sliding clear acrylic faceshield
- Mobile and portable systems available
- Easy single point front service access
- Electrical termination is standard 115V grounded plug

*** Note: Not including internal convenience power outlet**

Typical Applications

- Latent fingerprint dusting of crime scene exhibits
- Isolation of PCR systems
- Identification Centers
- Mobile Police Identification Units
- Forensic Crime Laboratories
- Field Training Centers
- Police College Laboratories
- Isolation of unknown substances collected from crime scenes

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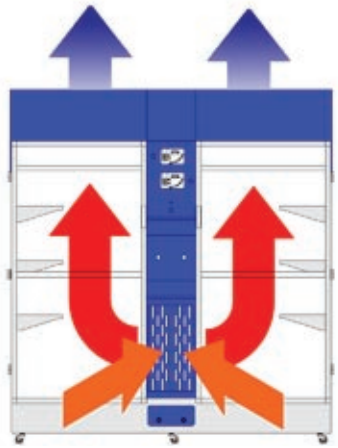
Evidence Drying Cabinet

The Evidence Collection/Drying Hood was developed for use in the Forensic Laboratories to provide a safe environment for storing and drying evidence collected from a crime scene while eliminating personnel exposure to odors and potentially soiled and infectious material.
HEPA (High Efficiency Particulate Air) filtration technology removes 99.99% of all particles 0.3 microns and larger and a carbon adsorption media ensures that all air discharged from the hood is essentially odor free. Our systems are completely self contained - no external ducts or exhaust connections are required.

6' Console Model

3' Console Model



Airflow

Airflow Legend

MODEL	STYLE	STORAGE AREA	ELECTRICAL
EDC-3	Nominal 3 foot console	30" x 60"	115V, 3AMPS, 60HZ
EDC-6	Nominal 6 foot console	2 Areas 30" x 60"	115V, 3AMPS, 60HZ

Features

- Self contained with energy efficient design
- Polyvinylchloride work volume
- Quantity 3 removable adjustable perforated side shelves
- Integral stainless steel drying rod
- Integral convenience water spray hose with automatic pump and drain valve
- Washable primary foam pre-filtration system
- Integral Fan/HEPA/Carbon system rated 99.99% efficient at 0.3 microns
- Built-in easy on/off controls and filter status monitor
- Variable fan speed settings to control airflow
- Locking clear acrylic doors with identification slots
- Mobile and portable systems available
- Easy single point front service access
- Electrical termination is standard 115V grounded plug

Typical Applications

- Isolation of unknown substances collected from crime scenes
- Identification Centers
- Mobile Police Identification Units
- Forensic Crime Laboratories
- Field Training Centers
- Police College Laboratories

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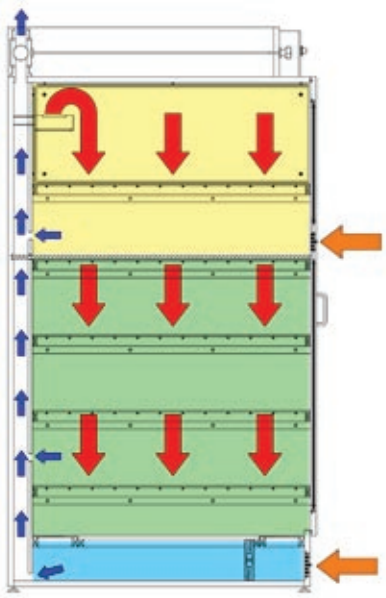
Cyanoacrylate Fuming Chamber

The Cyano Fuming Hood was developed for use in the Forensic Laboratories to provide a safe environment for processing evidence collected from a crime scene while eliminating personnel exposure to vapors created by the cyanoacrylate fuming process.

6' Console Model



Airflow

Airflow Legend

MODEL	STYLE	WORK VOLUME	ELECTRICAL
CAFC-3	Nominal 3 foot console	24" x 36" x 24"	115V, 5AMPS, 60HZ
-	-	24" x 36" x 36"	-

Features

- Energy efficient design
- Polyvinylchloride work volume with integral containment plenum
- 2 piece chamber for both small and large exhibits
- Adjustable removable flow thru design shelves
- Integral heater tray with remote temperature controller
- Built-in easy on/off controls and exhaust flow status monitor
- Hinged all sealed door with identification slots
- Single point duct collar connection (optional integral filer pack)
- Easy single point front service access
- Electrical termination is standard 115V grounded plug

Typical Applications

- Isolation of unknown substances collected from crime scenes
- Identification Centers
- Mobile Police Identification Units
- Forensic Crime Laboratories
- Field Training Centers
- Police College Laboratories

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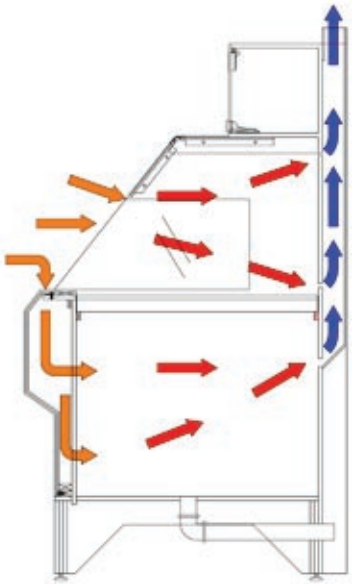
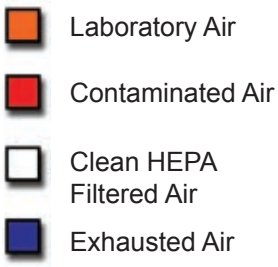
Ninhydrin Processing Hood

The Ninhydrin Processing Hood was developed for use in the Forensic Laboratories to provide a safe environment for processing collected crime scene evidence while eliminating personnel exposure to vapors created by the chemical processing.

6' Console Model



Airflow



Airflow Legend

MODEL	STYLE	STORAGE AREA	ELECTRICAL *
MWS-6	Nominal 6 foot console	24" x 72"	115V, 3AMPS, 60HZ
MWS-8	Nominal 8 foot console	24" x 96"	115V, 3AMPS, 60HZ

Features

- Energy efficient design
- Polyvinylchloride work volume with integral containment plenum
- 2 piece construction for ease of site access
- Integral convenience water spray hose with manual drain valve
- Integral drying rod
- Built-in easy on/off controls and exhaust flow status monitor
- Integral convenience electrical power outlet
- Sliding base cabinet doors with identification slots
- Single point duct collar connection
- Easy single point front service access
- Electrical termination is standard 115V grounded plug

*** Note: Not including internal convenience power outlet**

Typical Applications

- Isolation of unknown substances collected from crime scenes
- Identification Centers
- Mobile Police Identification Units
- Forensic Crime Laboratories
- Field Training Centers
- Police College Laboratories

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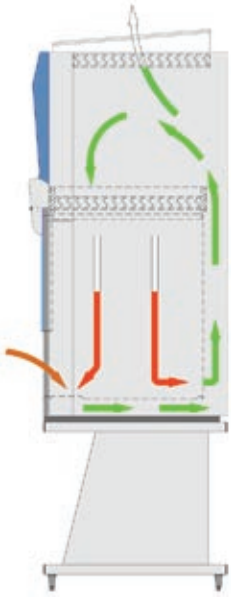
Biological Safety Cabinet

The Biological Safety Cabinet was developed for use in Forensic Laboratories to provide a high degree of both user and product protection. It provides a sterile environment for the isolation of dry crime scene exhibits which may be soiled with potentially infectious material. No potentially cross contaminating airborne particles located in the laboratory can impinge on the exhibit, thereby maintaining integrity of the sample as it is taken from its wrapping and during initial investigation/processing within the hood. Furthermore, the directed airflow within the hood is such that if the sample contains potentially infectious agents which may become airborne, then these agents are not released into the surrounding laboratory - thereby protecting the investigator.

4' Console Model



Airflow

Airflow Legend

MODEL	STYLE	STORAGE AREA	ELECTRICAL
BK-2-4	Nominal 4 foot console	24" x 48"	115V, 12AMPS, 60HZ
BK-2-6	Nominal 6 foot console	24" x 72"	115V, 12AMPS, 60HZ

Features

- N.S.F. 49 approved A2 airflow design
- Energy efficient design
- Adjustable removable stainless steel work surface
- Built-in on/off controls and filter loading alarm
- Hinged clear face shield
- Self contained
- Large work volume
- Electrical termination is standard 115V grounded plug

Typical Applications

- Isolation of unknown substances collected from crime scenes
- Identification Centers
- Mobile Police Identification Units
- Forensic Crime Laboratories
- Field Training Centers
- Police College Laboratories

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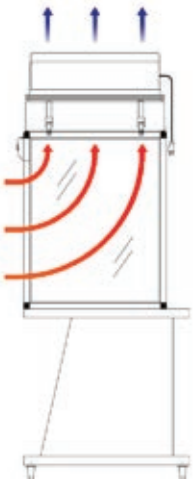
PCR-Class I Biological Safety Cabinets

The Class 1 PCR Biological Safety Cabinet was developed for use inForensic Laboratories to provide a safe environment to isolate and dry crime scene exhibits and perform PCR work. This self contained ventilated Class 1 cabinet is designed for personnel protection with an un-recirculated inward airflow directed away from the operator. The integral combo HEPA/CARBON filtration reduces the exposure from contaminating airborne particles and reduces odors.

4' Console Model



Airflow

Airflow Legend

MODEL	STYLE	WORK AREA	ELECTRICAL *
VRF-2-2	Nominal 2 foot table top	24" x 24"	115V, 3AMPS, 60HZ
VRF-2-4	Nominal 4 foot console	24" x 48"	115V, 3AMPS, 60HZ

Features

- Class 1 airflow design
- Energy efficient design
- Adjustable face velocity from 80-120fpm
- Built-in easy on/off controls and filter loading alarm
- Hinged clear face shield
- Self contained
- Large work volume
- Electrical termination is standard 115V grounded plug

Typical Applications

- Isolation of unknown substances collected from crime scenes
- Identification Centers
- Mobile Police Identification Units
- Forensic Crime Laboratories
- Field Training Centers
- Police College Laboratories
- PCR applications

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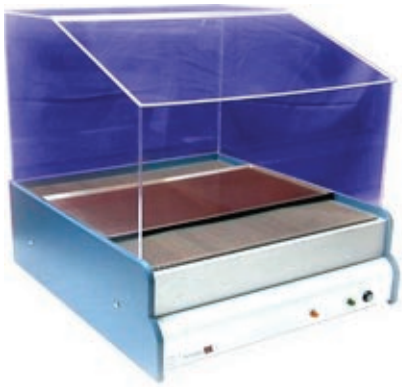
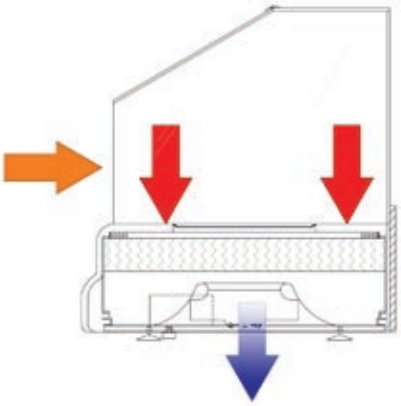
Letter Opening Station

The Letter Opening Station was developed to provide a safe environment for the investigator while opening suspicious exhibits which may contain potentially infectious material. The unit may be used to isolate the suspicious package until samples are bagged for further analysis. The Containment Hood prevents potentially hazardous airborne particles released while opening the package from entering the surrounding environment.



2' Bench Top Model



Airflow

Airflow Legend

MODEL	STYLE	WORK AREA	ELECTRICAL *
LOS-2-2-T	Nominal 2 foot table top	24" x 24"	115V, 5AMPS, 60HZ
LOS-2-4-T	Nominal 4 foot console	24" x 48"	115V, 5AMPS, 60HZ

Features

- Energy efficient design
- Adjustable removable stainless steel work surface
- Built-in easy on/off controls and filter loading alarm
- Hinged clear face shield
- Self contained
- Portable
- Electrical termination is standard 115V grounded plug

Typical Applications

- Isolation of unknown substances collected from crime scenes
- Identification Centers
- Mobile Police Identification Units
- Forensic Crime Laboratories
- Field Training Centers
- Police College Laboratories

MICROZONE CORPORATION

Forensic Identification Products

General:

There is little need to mention the importance of obtaining fingerprints in criminal investigations. Fingerprints have long been considered one of the most valuable types of physical evidence that can be found at a crime scene.

There are three different types of fingerprints: visible, impression and latent. Investigators normally need a portable, permanent copy of the fingerprints. A photograph can generally fulfill this need. Of the three types of fingerprints, visible fingerprints can be photographed directly and impression fingerprints can usually be photographed under special lighting conditions. It is only the invisible latent fingerprints that are difficult to photograph. They must first be made visible.

Latent fingerprints are composed of several chemicals exuded through the pores in the fingertips and are left on virtually every object touched. The primary component of latent fingerprints is ordinary sweat. Sweat is mostly water and will dry after a fairly short period of time. The other components of latent fingerprints are primarily solid, however, and can remain on a surface for a much longer period of time. These other components include organic compounds like amino acids, glucose, lactic acid, peptides, ammonia, riboflavin, as well as inorganic chemicals like potassium, sodium, carbon trioxide and chlorine.

The basic concept behind all of the chemical techniques is to apply something that will chemically react with one of the constituent chemicals of latent fingerprints to the area suspected of containing such a fingerprint. The resulting reaction will give all present latent fingerprints a new chemical composition. This new chemical composition will make the latent fingerprints easily rendered visible and they can then be photographed.

At Microzone, we understand the additional importance of providing an ultra-clean environment for processing and protecting the crime scene exhibits while also protecting the working operator from potentially hazardous agents released or generated during the processing/handling procedures.

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