



HOMELAND SECURITY AND EMERGENCY MANAGEMENT PRODUCTS



Welcome to PowerPlus

PowerPlus is a nationally recognized supplier of products designed to provide the utmost in worker protection and productivity. PowerPlus continues this tradition by providing leading-edge products for those in first-response and disaster mitigation roles.

The products presented here are some of the latest technologies and systems designed to be utilized when responding to or mitigating the effects of either a natural or man-made disaster. New innovations in homeland security are rapidly being introduced into the marketplace. Our professional sales team is committed to staying abreast of these developments and bringing them to you as they are introduced.

In addition to the product offerings, PowerPlus is pleased to offer extensive training and consulting services in the homeland security arena. Our training and consulting staff can deliver programs to meet your organization's needs. For those in the private sector, we offer expertise ranging from site security surveys to course modules addressing violence in the workplace. For those in public service, we offer WMD technician training, incident command training and several other pertinent courses. We also offer consulting services for grant-writing.

Please take time to review our offerings. What you will see in this catalog highlights the products and services we can provide to respond to and prepare for emergency and disaster situations. We have extensive inventories of thousands of other items to augment this array. We look forward to working with you and are committed to providing products and services that will exceed your expectations.

Mission Statement:

- We are problem solvers who profit from creating customer solutions
- Our business focuses exclusively on fulfilling needs of the cleaning and decontamination industries.
- We grow profitable by:
 - ENRICHING our clients' business
 - CREATING learning and growth for ourselves
 - DELIVERING these on a Biblical foundation of integrity.

-
- We grow profitable by:
 - ENRICHING our clients' business
 - We don't just sell the goods, we deliver the goods.
 - CREATING learning and growth for ourselves
 - We stay on the cutting edge in order to be leading contributors to our customers and community.
 - DELIVERING these on a Biblical foundation of integrity.
 - We walk the talk---our mouths match our moves.

Ordering Options

Simple Ordering Options:

- Call the nearest PowerPlus location for fast, friendly and knowledgeable customer service.
- Fax orders to the nearest PowerPlus location.

Shop online at www.PowerPlusOnline.com

INTELAGARD.

Kimberly-Clark
SAFETY DIVISION

MSA

osborn SCIENTIFIC
GROUP

3M

DBI SALA

smiths
Smiths Detection

NORTH
Safety Products

POWERPLUS Welcome

Thank you for stopping by the Powerplus Website.
We are your

One-Stop Source
for EVERY professional cleaning need.

PRESS WATCH OUR PRODIGY HSR VIDEO DEMONSTRATION HERE!

We have prepared this site especially for you.
Here is a quick overview of the site:

SERVICES & CAPABILITIES: Professional cleaning for a wide range of industrial customer applications and support including: training, repair and business support.

EQUIPMENT CATALOG: A comprehensive selection of highly durable and performance-oriented tools including: scrubbers, floor buffers, grinders, sanders, extractors and more.

PARTS CATALOG: A wide variety of parts, tools, tubes and accessories.

CHEMICALS CATALOG: A complete range of chemical products of broad range of cleaning action. For more information visit our website.

TRUNAMIC CLEANING TECHNOLOGIES: TruNamic is the Prodigy HSR for Powerplus. It's the only page for working more effectively in confined and complex industrial sites. G.O.C.

HOW TO CONTACT US: If you would like to learn more about Powerplus, we would like to help you.

Download our product brochures today!

edge temp-out **g-prostar** **genibloc** **sext** **prodigy**

Powerplus Professional Cleaning Systems, Inc. © 2002
10000 Highway 20, Suite 200, Dallas, TX 75244
E-Mail: info@powerplus.com

INNOVATIVE PRODUCTS



PowerPlus Emergency Response Kits. Let PowerPlus custom design and build your kit with the items you need or you can choose from our stock kits.

Page 93



The **Hazmat Smart Strip** is a user friendly chemical indicator that can be worn by first responders such as Firefighters, Police Officers, EMS, Hospital Workers, USAR Teams, the Military and Private Citizens.

Page 8



The **BADD™ Biowarfare Agent Detection Device** is the only test available that accurately detects minute, yet high threat, amounts of biological WMDs on surfaces or in solutions.

Page 6



Expray is a unique, aerosol-based field test kit for the detection and identification of Group A explosives (e.g. TNT, TNB, etc.), Group B explosives (e.g. Semtex H, RDX, C4, etc.) and compounds containing inorganic nitrates that are used in improvised explosives (e.g. ANFO).

Page 17



Con-Space is an intrinsically safe communication system for all first responders including bomb squads, decon teams, and rescue teams.

Page 124



Five years of testing has produced **EasyDECON™**, one of the most powerful decontamination foams available to emergency response professionals.

Page 25



One Response Plan is the complete electronic emergency response planning and reporting solution that addresses the critical needs of both industry and emergency responders.

Page 96

Table of Contents

Detection Equipment	6 - 24
Decontamination Equipment & Accessories	25 - 44
Respiratory Protection	45 - 75
Disaster Prevention Equipment	76 - 78
EMS / Rescue Equipment	79 - 91
Emergency Response Kits	92 - 95
Emergency Planning & Reporting Services	96
Publications	97
Training Seminars & Consulting Services	98 - 101
Personal Protective Equipment	102 - 123
Protective Apparel	102 - 108
Head Protection	109 - 111
Foot Protection	112 - 113
Hand Protection	114 - 117
Eye Protection	118 - 119
Personal Cooling Apparel	120 - 122
Hearing Protection	123
Communication Equipment	124
Confined Space / Fall Protection Equipment	125 - 131
Safety	132 - 143
Tools	144 - 149
Spill Control / Haz-Mat Response	150 - 153
Traffic Control / Signs	154 - 158
Credit Application	159

Front cover image credits to the following:

MSA

Images of Tornado and Thunder Storm Credit: NOAA Photo Library, NOAA Central Library; OAR/ERL/National Severe Storms Laboratory (NSSL)
Image of Anthrax is COPYRIGHT - WHO (World Health Organization)

Detection Equipment



The ideal test for First Responders evaluating threat credibility

The BADD™ Anthrax Rapid Detection Device is the only test available that accurately detects minute, yet high threat, amounts of anthrax on environmental surfaces or in solutions. The BADD™ Device works without the need for extensive sample preparation steps or additional expensive equipment. Each kit contains everything necessary to take a sample and perform an immediate valuation, anywhere in the world, with results in 15 minutes or less. Accuracy, ease of use, a capacity to detect credible threat levels, and no cross reactivity with *Bacillus globigii* or *Bacillus thuringiensis* make the BADD™ Anthrax Rapid Detection Device the perfect test for a not-so-perfect world.

Simple to use:

As easy to use as a home pregnancy test, the BADD™ Anthrax Rapid Detection Device is a self-contained environmental anthrax test that provides a positive or negative result in 15 minutes or less.

Detection Levels:

- As little as 0.25 micrograms

Designed as a screening device for the professional, the BADD™ Anthrax Rapid Detection Device is capable of detecting as little as 0.25 micrograms of Anthrax (about 1/4 the size of a speck of dust) on virtually any surface, and at 1.0 micrograms/mL in a solution. At these levels, the BADD™ Device allows first responders to quickly and accurately identify a credible biological threat.

Sensitivity Levels:

- 100% accurate as tested

The BADD™ Anthrax Rapid Detection Device is extremely accurate with results showing 100% sensitivity for multiple Anthrax strains (Ames, Vollum and Sterne) at 0.25 micrograms on surfaces and 1.0 micrograms/mL in a solution.

Botulinum Toxin Kit Detection Levels:

As little as 50 nanograms of Botulinum Toxin on a smooth surface. Can also detect Botulinum Toxin at 400 nanograms/mL in a solution.

Ricin Kit

Detection Levels:

As little as 50 nanograms of Ricin on a smooth surface. Can also detect Ricin at 400 nanograms/mL in a solution.

Cross-Reactivity:

No cross reaction was found with either *Bacillus globigii* or *Bacillus thuringiensis*.

Specificity:

1-10 mg. samples of each material listed below were tested for interference with the BADD™ Anthrax Rapid Detection Device. The testing produced no false positives and no false negatives resulting in 100% specificity.

- 1 milligram (mg) of bovine serum albumin
- 1 milligram (mg) of non-dairy creamer
- 1 milligram (mg) of sugar
- 1 milligram (mg) of household dust
- 1 milligram (mg) of talcum powder
- 1 milligram (mg) of non-fat dry milk
- 1 milligram (mg) of flour
- 1 milligram (mg) of baking soda
- 1 milligram (mg) of baking powder
- 1 milligram (mg) of laundry detergent

There are millions of other substances that may be found in the field and Osborn Scientific makes no claims as to how the BADD™ Anthrax Rapid Detection Device will perform to substances that have not been evaluated.

Plague and Smallpox Kits available late 2003.

Part #	Description
OSGANTH-BOX-30	BADD Box w/30ea Anthrax devices
OSGBOT-BOX-30	BADD Box w/30ea Botulinum devices
OSGMIX-BOX-30-ARB	BADD Box w/10ea Anthrax, Ricin, Botulinum devices
OSGPLA-BOX-30	BADD Box w/30 Plague devices
OSGRIC-BOX-30	BADD Box w/30ea Ricin devices
OSGSIM-BOX-30	BADD Box (Training) w/30 Simulation devices
OSGSMP-BOX-30	BADD Box w/30 Small Pox devices
OSGANTH-KIT-10	BADD Anthrax kit (box of 10)
OSGBOT-KIT-10	BADD Botulinum kit (box of 10)
OSGPLA-KIT-10	BADD Plague kit (box of 10)
OSGRIC-KIT-10	BADD Ricin kit (box of 10)
OSGSIM-KIT-10	BADD Simulation kit (box of 10)
OSGSMP-KIT-10	BADD Small Pox kit (box of 10)

Detection Equipment

Smiths Detection APD2000

- Detects chemical warfare agents, gamma radiation, along with pepper spray and mace
- Selectable monitoring/detection



With superior interferent resistance, the APD2000's state-of-the-art algorithm simultaneously detects nerve and blister agents, recognizes pepper spray and mace, and identifies hazardous compounds. This portable, hand-held chemical detection instrument is packaged into an ergonomic design that weighs 6 lbs. Nearly 1000 of these instruments are already in use by law enforcement agencies, first responders, HAZMAT teams and fire departments across America.

The APD2000 requires little training or maintenance and operates on commercial or rechargeable batteries that are readily available (6 "C" batteries). Selectable operating modes allow for either the monitoring or detection of chemical agents. All the features of the APD2000 make it an incredible value to your team.

Features:

- Detects chemical warfare agents and civilian threats such as pepper spray and mace.
- Provides agent identification.
- Powered by commercial alkaline or rechargeable batteries.
- Selectable operating modes.
- Provides superior interferent resistance.
- Data logging of all detection and monitoring events.

APD2000 Options

- Remote communication of alarm signals via radio frequency.

Specifications

- Agents Detected - GA, GB, GD, VX, HD & Lewisite (L), Pepper Spray, Mace
- Sensitivity -
 - V - 4 ppb 30 seconds
 - G - 15 ppb 30 seconds
 - H - 300 ppb 15 seconds
 - L - 200 ppb 15 seconds

Detects high concentration of these agents in 10 seconds or less.

- Radiation Detection from 1 mr/hr to 999 R/hr.
- Self Test – BIT for electronic, pneumatic and power conditions
- Operator Service – 5 minutes per 24 hours of operation
- Temperature -
 - Operation: -22 to +126°F
 - Storage: -80 to +160°F
- Size – 4" x 3¹/₂" x 11" (10 x 9 28 cm)
- Weight – 6 pounds (< 3 kg) including batteries
- Power – 6 standard or rechargeable "C" batteries
- Alarms – Easy to read visual display and audio alarm



Part # SM124288OG-30

Part #	Description
SM124288OG-30	Smiths Detection APD2000 Monitor

Detection Equipment

HAZMAT SMART STRIP BY SAFETY SOLUTIONS, INC.

The Hazmat Smart Strip is a user friendly chemical indicator that can be worn by first responders such as Firefighters, Police Officers, EMS, Hospital Workers, USAR Teams, the Military and Private Citizens. Currently technology requires responders to use a number of indicator strips taped to their clothing in an effort to detect a contaminated atmosphere (aerosolized) or surface (liquid). Current technology is very small and not designed for responders to use in the field while dressed in chemical protective clothing. The Smart Strip is a cost effective, reliable detection medium that allows the user simple means to read results instantly in the field.

The HazMat Smart Strip is equipped with a peel-and-stick backing or can be clipped to the responder's clothing ensemble. The device consists of eight specifically designed reagent strips that, when in contact with a category of products, produce a visible color change. Key advancements over current technology include: simple protocols, broad-based compatibility, intuitive response, the proper selection and combining of eight reagents to one unit for ease of use. The eight reagents are self-contained and activated by removing the protective covering that is designed to preserve the indicator layer until ready for use. All of the reactive components have been directly integrated within the layers to remove any requirement for applying additional strips of reagents or buffer solutions, as is the case with current technologies. The color developing indicator layer contains a chemical sensitive paper that transitions from the standard that is placed around each indicator strip (border) in the presence of one of the eight categories of chemicals.

Reaction time: Instantaneous.



Part #	Description
SSSMARTSTRIP	HazMat Smart-Strip

This table illustrates the effect of certain types of chemical with the reagent strips and their performance.

Reagent	Paper Color	Positive Indicator	Sensitivity Level
Chlorine	Light Yellow	Blue / white spots	1 ppm
PH	Light Brown	Red / blue	Above or below neutral
Fluoride	Pink	Yellow white spots	20 ppm
Nerve	Brown	Gold, red, green	In contact with G, H, V agents
Oxidizers	White	Blue-violet spots	1 ppm
Arsenic	White	Yellow-brown	.5 ppm
Hydrogen Sulfide	White	Brown / black	5 ppm
Cyanide	Pale Green	Blue	.2 ppm

BioCHECK™ POWDER SCREENING TEST KIT

1 Real Bioterrorism Incident = 1,000s of False Alarms

Screen for multiple bioterror agents and rule out most false alarms in about 5 minutes

The BioCheck™ Powder Screening Test Kit uses PurpleHaze™ Technology to measure the presence or absence of protein in a sample. Protein is found in all living materials including biohazardous bacteria and in most toxins. The presence of protein (shown by a change to a purple color in the Protein Solution) indicates the possibility that a biological agent may be present: all pathogens and toxins contain protein.

Please note the following before using the kit:

- This product is for FIELD USE ONLY and is not intended for diagnostic or laboratory use
- Confirmatory testing by bacterial culture, DNA testing and/or antibody tests is required before a definitive-assessment can be made as to whether a particular pathogen or toxin is present
- It is intended for the screening of biological WMDs in visible amounts (amounts of equivalent to 100 µg or more); it is not designed for environmental sampling or testing for individual poisons

- ✓ Reduce your department's need for expensive, time-consuming specific agent identification.
- ✓ Economical at less than \$25 per test.
- ✓ Rules out more than 85% of agents that cause citizens to call 911.
- ✓ No instrumentation required.
- ✓ Easy to use.
- ✓ Laboratory proven to screen for Anthrax.



Part #	Description
GNSGB1001	BioCheck™ Powder Screening Test Kit/10-pack

Detection Equipment

MICROCAT[®] FIELD MICROSCOPY

WITH REAL-TIME LAB SUPPORT

Chemical and Physical Assay in One Tool!

The HazCat[®] MicroCat Kit provides first responders with powerful field microscopy. A field portable microscope and attached digital camera enable first responders to observe and image substances.

Images are sent by internet or telephone to Envir-Micro Laboratories. Microbiologists are available 24/7 for immediate interpretation. Results are known to the first responder in 15-30 minutes.

Positive results are immediately forwarded to CDC and FBI. MicroCat can be bundled with the HazCat WMD Kit.

Features:

- Leica[®] DMLS clinical microscope
- LED illumination (80 hr. battery)
- Plan phase optics (10x, 40x, 100x)
- Digital camera with USB connections
- Forensic collection kit
- Assessment algorithm
- Certified training available
- Custom case for protection and transport



HAZCAT[®] WMD KIT

EMPOWERING FIRST RESPONDERS WITH KNOWLEDGE, ABILITY AND SAFETY

The HazCat[®] WMD Kit identifies threats as Radioactive, Biological or Chemical. All HazCat[®] tests are simple to perform and use a logic system to prove or rule out weapons of mass destruction (WMD). Samples are first screened for radioactive hazards with the HazCat[®] Radiation Monitor. Chemical weapon threats are screened with simple chemical tests and then identified by confirmation tests. HazCat[®] CW tests are characterized by their simplicity and dependability for field use.

The HazCat[®] WMD Kit identifies solid or liquid:

- **Nerve Agents**
G-Series, V-Series (VX, etc.), GV-Series (GP, etc.), Binary Components (DC, DF, QL, chlorosarin, chlorosaman), Carbamates
- **Dusty Mustard and Nerve Agents**
- **Thickened Mustard and Nerve Agents**
- **Blister Agents**
Sulfur-based (HD, T, Q), Arsenic-based (L, PD, MD, ED), Nitrogen-based (HN1, HN2, HN3), Urticants (CV), Key precursors
- **Enhanced Commercial Pesticides** (intended as improvised nerve agents)

WMD negative results are directed to the conventional HazCat[®] Chemical Identification System for identification.

Part #	Description
HAZKT1040	MicroCat Kit including WMD Kit
HAZKT1042	MicroCat microscope only
HAZKT1035	HazCat WMD Kit

WMD negative results may still be hazardous! Use the HazCat[®] Kit!

Detect Radioactive Material and Chemical and Biological Agents with the HazCat WMD Kit!

NOW YOU CAN DETECT:

Radioactive Hazards: Alpha, Beta, Gamma, X-Ray

Biological Agents

- Detects Amino Acid and Protein
- Screens Non-Biological Substances
- Screens Pesticides
- Immunoassay Tests for Anthrax, Ricin, Botulinum Toxin, and soon for Smallpox and Plague

Chemical Weapon Agents:

- Nerve Agents
- Dusty Mustard and Nerve Agents
- Thickened Mustard and Nerve Agents
- Blister Agents
- Enhanced Commercial Pesticides

Detection Equipment

ANACHEMIA

Chemical Agent Liquid Detectors 3-Way, M-8, M-9

The Chemical Agent Liquid Detection papers were designed to meet the need for a simple, rapid method of detecting and differentiating between the 3 major groups of liquid chemical warfare agents. The detector papers can quickly determine the presence of G, V or H agents in liquid. The detectors consist of:

- Dye impregnated paper sensitive to liquid chemical agents
- Booklets with adhesive backed sheets (3-Way)
- Booklets of sheets without adhesive (M-8)
- Dispenser rolls with adhesive backing (M-9)
- Color comparison charts and instructions

The test consists of : (1) Detaching a piece of paper from a booklet or dispenser roll.
 (2) Exposing the paper to a surface suspected of being contaminated by a liquid chemical agent or to the agent itself by wiping the suspected surface with the paper, or by attaching the paper to a surface which may be exposed in the future.

If the paper comes in contact with an agent, it will change color. The 3-way and M-8 papers exhibit 3 colors to signify the presence of G, V or H agents. M-9 paper develops a single color which indicates the presence of the above G, V or H agents.



Specifications

	3-Way	M-8	M-9
NATO stock #	NSN6665-21-858-8494	NSN6665-00-050-8529	NSN6665-02-226-5589
Agents detected:	G(nerve) H(blister) V(nerve)	G(nerve) H(blister) V(nerve)	G(nerve) H(blister) V(nerve)
Dimensions:	Booklet of 12 sheets adhesive backed 10 cm x 6.5 cm	Booklet of 25 sheets 10 cm x 6.5 cm	Dispenser box 7.5 cm x 7.5 cm x 6 cm contains 10 m of self adhesive paper
Packaging:	1 booklet in poly bag 40 booklets per box	1 booklet in poly bag 50 booklets per box	1 dispenser roll in sealed Tyvek bag
Packing:	20 boxes per case 10 cases per pallet	20 boxes per case 10 cases per pallet	100 rolls per case 12 cases per pallet

Chemical Agent Detector Kit M256A1

The M256A1 Chemical Agent Detector Kit is a compact, simple-to-use kit designed to detect blister, nerve, blood and Lewisite agents. The kit consists of:

- A plastic carry case with velcro closure.
- A booklet of M-8 test paper sealed in a plastic bag.
- Attached instruction cards.
- 12 pouches containing the chemical agent detector samplers.

The test is carried out by following the simple instructions printed on the sampler packet.

The test consists of:

1. Activating the sampler by breaking the integral crushable ampoules and releasing test reagents.
2. Exposing the activated test disc to ambient air.
3. Comparing the observed color change to the color chart in the instructions, thereby determining the presence or absence of chemical agents.



Specifications

	M256A1
NATO stock #	NSN6665-01-133-4964
Agents detected:	Nerve agents G, V Blood agents AC, CK Mustard H, HD Phosgene oxime CX Lewisite L
Dimensions:	Detector—12.5 cm long x 9.5 cm wide x 1.5 cm thick Kit—17.5 cm wide x 12.5 cm high x 7.5 cm deep
Packaging:	12 detectors plus instruction card and 1 M-8 Chemical Agent Liquid Detector packaged in plastic kit box. Box packaged in cardboard unit box sealed in a poly bag.
Packing:	24 boxes per case, 18 cases per pallet

Detection Equipment

SPINCON®

The Most Advanced Aerosol Sampler for Biological and Chemical Defense

- Proven effective with both biological and chemical threats
- Covers a wide range of particle sizes - from chemicals and viruses to spores
- High collection efficiency and rate
- Superior concentration factor improves detection
- Operates in batch or continuous mode, providing much longer surveillance periods
- Compatible with most analytic assay methods, including on-site detection equipment

Unsurpassed Sample Collection and Concentration

Validated by independent testing agencies. Data collected by research laboratories and the U.S. Military tests, from both indoor and outdoor environments, show the SpinCon to be superior to other commercial air samplers. It produces a higher concentration of the target analyte in a significantly shorter time. The concentrated liquid sample collected by the SpinCon is ideal for use with most detection technologies and platforms. Validating data show that the SpinCon efficiently collects and concentrates, in a liquid medium, micron and submicron bioaerosol particles, such as molds, pollen, fungi, bacteria, viruses, and bacteriophages, including anthrax, foot and mouth, citrus canker, avian influenza, and many others. It also has proven successful in capturing a wide variety of compounds, including low and moderate vapor-pressure chemical compounds.



High collection efficiency and particularly high collection rate

The very high flow rate of 450 L/minute, when coupled with high collection efficiency across a very broad range of particle sizes, gives the SpinCon superior collection rates. The ability to vary sampling time makes it the ideal choice for both intermittent and continuous monitoring application.

Very broad range of particle sizes captured

The SpinCon is designed to capture the widest range of bioaerosols, particulate matter, and soluble vapors. The patented cyclonic function of the SpinCon allows it to collect particles down to 0.2 microns (submicron) and even trace vapors from explosives.

Proven technology with excellent reliability

SpinCon performance has been verified at Dugway Proving Grounds, Plum Island, Aberdeen Proving Grounds, Battelle Labs, Lawrence Livermore Labs, Midwest Research Institute, and several major universities. With a history of successful deployments, the SpinCon is an excellent selection for any air sampling need.

Specifications

- Power requirements: 120VAC or 12/24 VDC
- Power consumption: 450-500 W
- Flow rate: 450L/min
- Particle size collection range: 0.2 microns to over 10 microns.
- Sampling time: Selectable between 5 minutes and 6 hours
- Current sample size: 10 ml.
- Sample extraction: Automatic into sample bottle; features bottle presence detection.
- Solution: Uses phosphate-buffered saline solution or sterile water for sample collection. Please consult an PowerPlus Team Member if your application requires a custom solution.
- Size: 18" x 15" x 8"
- Weight: 46 LB
- Portability: Easily transportable in protective carrying case.
- Operating temperature range: 2° to 50° C (36° to 120° F)
- Controls: Integral control with LCD status display; sample, rinse, sample time, and manual extract and inject controls.
- Decontamination: Exterior surfaces can be wiped with dilute bleach solution. Fluid lines and contactor can be flushed with bleach solution followed by rinses with sterile water.

Part #	Description
SCE450/10	SpinCon Aerosol Sampler, model 450/10
SCE450FLUIDS	Fluids with special connectors
SCE450BOTTLES	Box of 72 specially-fitted sample collection bottles
SCE450BATT	12 volt/33 amp rechargeable battery with case
SCE450CASE	Heavy duty protective travel case

Detection Equipment

SE INTERNATIONAL – POCKET SURVEY METER – INSPECTOR

Detects: Alpha, Beta, Gamma & X-ray

The Inspector is a small handheld microprocessor based instrument which offers excellent sensitivity to low levels of alpha, beta, gamma and x-rays. The digital readout is displayed with a red count light and audible beep, providing instant indications of the radiation level. Other benefits include an adjustable timer and external calibration controls.

- Halogen-quenched uncompensated GM tube with thin mica window, 1.4-2.0 mg cm² areal density.
- Effective diameter of window is 45 mm (1.75 in.)
- Radiation symbol on front label marks the center of detector.

Specifications

Display: 4 digit liquid crystal display with indicators.

Averaging periods: Display will update every 3 seconds. At low background levels, the update is the moving average for the past 30 second time period. Time period for moving average decreases as the radiation level increases.

Operating Range:

mR/hr - .001 (1µR) to 100 mR/hr
 µSv/hr - .01 to 1000
 CPM - 0 to 300,000
 CPS - 0 to 5000
 Total/ Timer - 1 to 9,999,000 counts

Accuracy:

mR/hr ± 15% from 0 to 30 mR/hr.
 mR/hr ± 20% from 30 to 50 mR/hr.
 CPM ± 15% from 0 to 100,000 CPM
 CPM ± 20% from 100,000 to 300,000
 PM. (Referenced to Cs-137)

- Sensitivity to Common Isotopes: Typical GM tube efficiency for 4 pi geometry at contact.
- Gamma Sensitivity: 3500 CPM/mR/hr referenced to Cs-137. Smallest detectable level for I-125 is .02 µCi at contact.
- Timer: Can set 1 minute sampling periods from 1 to 10 minutes. 10 minute sampling periods 10-60 minutes. 1 hour sampling periods from 1 to 24 hours.
- Count Light: Red LED flashes with each radiation event.
- Audio Indicator: Internally mounted beeper (can be switched off for silent operation).
- Outputs: Dual miniature jack drives CMOS or TTL devices: count to computer or datalogger. Submini jack input allows for electronic calibration.
- Anti-Saturation: Meter will hold at full scale in fields as high as 100 times the maximum reading.
- Power Requirements: One 9 volt alkaline battery. Battery life is min. 200 hours at normal background radiation levels.
- Temperature Range: -10°C to 50°C (14°F to 122°F)
- Weight: 301.4 grams (10.6 oz.) without battery.
- Size: 150 x 80 x 30 mm (5.9 x 3.3 x 1.2 in.)



Part #	Description
ATISEINSPECTOR	Pocket Survey Meter Inspector

SE INTERNATIONAL POCKET SURVEY METER – INSPECTOR EXP

The Inspector EXP has the added versatility of an external probe.

- RAP-RS1 Probe: same GM detector as Inspector
- 500 volt power supply is in the probe head
- Probe Construction: Anodized Aluminum housing
- Size – Approx. length: 8.75 in. Diameter: 2.75 in.
- Connector – Amphenol 31226 twinax connectors
- Handle – Anodized aluminum with coated black foam grip
- Weight: 1 lb. 15.6 oz. (420g).

The unique design of attaching the probe to the carrying case allows one handed operation if desired and the protective probe cover folds easily out of the way.

Part #	Description
ATISEINSPECTOREXP	Pocket Survey Meter, Inspector EXP



Detection Equipment

MGP POCKET ELECTRONIC DOSIMETER - DMC 2000S

The DMC 2000S represents a quantum leap in electronic dosimeter technology. It features flat energy response to X-rays and gamma fields from 60 keV to 6 MeV and linear response to dose rate fields of one mR/hr. The unit's top mounted LCD clearly displays either the accumulated dose (configurable to integers or tenths of milliRem) or current dose rate.



HP (10) Deep Dose Equivalent

Operational dosimetry for personnel working with ionizing radiation sources, including: Commercial Nuclear Stations, Medical & Research labs, Fuel Processing Plants, Non-destructive testing, Military applications, Civil Defense.

Features:

- Pass-by-data exchange
- Compact
- Rugged
- Accurate

Uses:

- Used as a stand-alone device or integrated into a dosimetry system
- Tracking by RCA or sub-zone
- Internal memory "Histogram"
- Audible and visual alarms
- Self-testing (battery, detector and parameters)
- Uses a standard calculator battery, with one year (2000 hrs.) life
- Operational teledosimetry or use as an area monitor

Specifications

- Dimensions: 84 x 48 x 17.5mm (3.3 x 1.9 x .7 in.)
- Weight: < 56g (2.0 oz.), with battery
- Accuracy: < + -5% (Cs 137, 0.2 mSv/hr; 20mRem/hr)
- Waterproof
- Worn by a detachable clip

Part #	Description
ATIDMC2000S	MGP Pocket Electronic Dosimeter

The LDM 101 reader provides interface between the DMC family of dosimeters and Dosimass computer software. The reader is used to calibrate, configure, activate, troubleshoot and diagnose. The reader also allows analysis of a dosimeter internal dose and the dose rate data (Histogram).

MGP POCKET ELECTRONIC DOSIMETER - DMC 2000XB

The DMC 2000XB simultaneously measures, stores and displays both deep dose equivalent Hp(10) and shallow dose equivalent Hp(0.07). It features a flat response over all practical X-rays and gamma rays range and a unique beta range, down to the theoretical limit of penetration, including C060 beta, a major threat in plants. The unit's top mounted LCD clearly displays dose or dose rate for shallow or deep dose equivalent.

Operational Dosimetry for:

- Medical Personnel During X-Rays
- Commercial Nuclear Stations
- Medical & Research Labs
- First Responders

Features:

- Pass-by-data exchange
- Compact
- Accurate



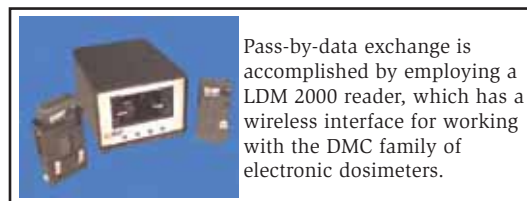
Uses:

- Can be used in autonomous mode (stand-alone device) or integrated into a dosimetry system.
- Tracking by RCA or sub-zone.
- Internal memory "Histogram".
- Audible and visual alarms.
- Self-testing (battery, detector and parameters).
- Uses a standard calculator battery, with one year (2000 hrs.) life.

Specifications:

- Dimensions: 84 x 84 x 17.5mm (3.3 x 1.9 x .7 in.)
- Weight: < 56g (2.2oz), with battery
- Accuracy: < + -5% (Cs 137, 0.2 mSv/hr; 20mRem/hr)
- Waterproof
- Worn by a detachable clip

Part #	Description
ATIDMC2000XB	MGP Pocket Electronic Dosimeter



Pass-by-data exchange is accomplished by employing a LDM 2000 reader, which has a wireless interface for working with the DMC family of electronic dosimeters.

Detection Equipment

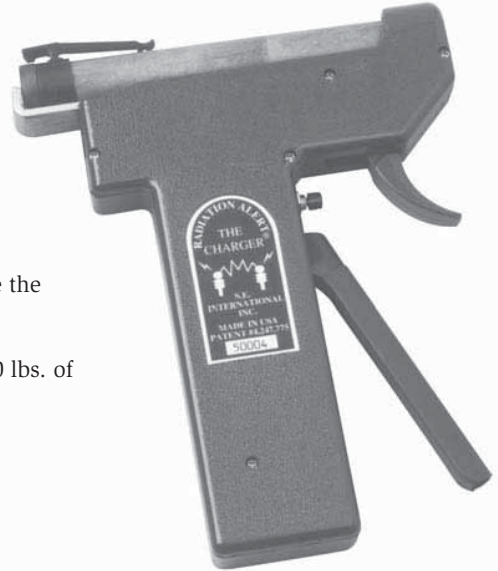
ARROW-TECH, INC.

DOSIMETER CHARGERS NO BATTERY NEEDED!

The handheld charger can zero a variety of quartz or carbon fiber dosimeters by simply squeezing the lever of the piezoelectric generator. The charger requires absolutely no batteries — ever! By pulling the trigger, a dosimeter is easily placed in or removed from the charger.

Specifications:

- Power: Piezoelectric generator
- Discharge Bulb: Regulates voltage to 250 volts and provides flash to indicate the instrument is operational.
- Charging Contact: Gold plated brass
- Clamping Mechanism: Adjustable and self locking, spring loaded (applies 10 lbs. of pressure), all metal parts are stainless steel to prevent rusting
- Humidity: 0 to 90% relative humidity
- Weight: 8.64 oz. (245.1 grams)
- Size: 152.4 x 107.99 x 22.2 mm
- Warranty: 1 year limited warranty



Part #	Description
ATI750-6	Model 750-6 Piezoelectric Charger

Jordan 750-5 Charger

The Jordan 750-5 Charger is a compact lightweight charger designed to charge most direct-reading quartz fiber dosimeters. This instrument features a fully transistorized and printed circuit board. Power required for operation is furnished by a single "D" flashlight type battery, capable of recharging dosimeters thousands of times before replacement is necessary, thus making it an economical and reliable charger to operate.

A safety spring located in the charging socket of the Model 750-5 prevents damage to the dosimeter in the event that excessive pressure is exercised when recharging. Both moisture-proof and dust-proof, the charger also features a protective cap to prevent any moisture or dust from accumulating in the charging socket when not in use.

Features:

- Power: 1 ea. "D" Cell battery
- Range: 200-250 volts
- Mil-Spec: NSN 6665-00-856-8813
- Battery Life: Capable of recharging dosimeters thousands of times
- Size: 4" (10.2 cm)W X 4" (10.2 cm)L X 3" (7.6 cm)H
- Weight: 1.2 lb (495 grams)
- 1 Year Warranty

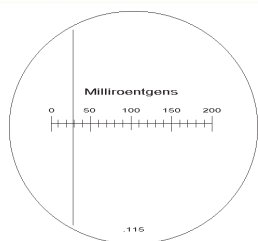
Operating Conditions:

- Temperature: -20 degrees F to +140 degrees F
- Humidity: No effect, unit has water and dust-tight seals
- All metal, built to meet rigid Military Standards requirements for extremes of temperature, altitude, shock and vibrations.
- Altitude: Independent of pressure changes from sea level to over 50,000 Ft.
- Cover: Heavy aluminum casting
- Case: Drawn steel. (0.025 c.r.s.)



Part #	Description
ATI750-5	Jordan Charger

Detection Equipment



ARROW-TECH, INC. Direct Reading Dosimeter

The low energy feature has hospital applications including fluoroscopy, portable radiography and angiography.

This pocket-size instrument is light weight and has a sturdy metal clip to attach to individual's pocket. The entire unit is waterproof.

All dosimeters are tested for compliance with ANSI specifications, and customer specification requirements. All test equipment is calibrated, with documentation of traceability to NIST standards. All dosimeters are identified as to model number, range, manufacturer's name, and unique serial number.

Accumulated radiation is read directly on an internal calibrated scale. A Dosimeter charger is required in order to return the dosimeter to zero after each exposure or when desired.

This model is available with a protective hard (sapphire) window to prevent the lens from being scratched in a harsh environment.

Specifications:

- Radiation Detected: Gamma and x-ray from 16 keV to 6 MeV
- Range: 0 – 200 mR Rate Meter: 0 – 12 R/Hr.
- Detector Housing: Very low permeability plastics-hermetically sealed
- Accuracy: Within + or – 10% of true exposure
- Rate Response: Dose rate independent for gamma and x-ray
- Electrical Leakage: Less than 1.0% of full scale for 24 hours at 50 C
- Temperature Range: -20 degrees C to + 50 degrees C
- Relative Humidity: Up to 90%
- Dimensions: Length: 4.5" (12.4 cm) Diameter .6 " (1.5 cm)
- Weight: 1.0 oz (25 grams)
- Finish: Barrel and end caps are Natural matte black with metal clip
- Warranty: 2 year limited warranty
- Detector: Fiber electrometer mounted in an electrically conductive plastic ion chamber



138

Part #	Description
ATIAT-138	Direct Reading Dosimeter

RADOS – RAD-60 PERSONAL ALARM DOSIMETER

So simple to use. With the push of a button you can:

- Turn the unit on/off.
- Change the digital display to read dose or dose rate.
- Select from several dose and dose rate alarm levels.
- Turn the chirp function on/off.
- Reset integrated dose.
- Perform a battery test.

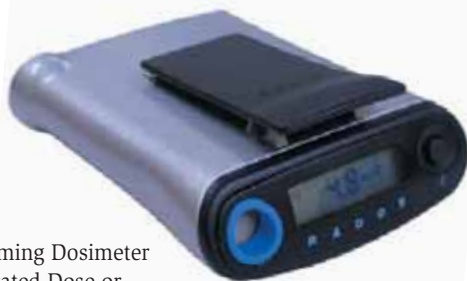
Reader and software are available for dosimeter configuration-calibrations access control. The large digital display gives instant dose or dose rate readings and the audible alarm is LOUD — better than 85 dBA!

Applications in:

- Civil Defense
- Military Forces
- Rescue Operations
- Industrial Radiography
- Nuclear Medicine
- Customs Operations

Features:

- Individual Personal Alarming Dosimeter
- Digital Display for Integrated Dose or Alternatively Dose Rate
- User Selectable Alarm Levels for Both Dose and Dose Rate



Specifications:

- Radiation Detected: Gamma and x-ray from 60 keV to 6 MeV.
- Detector Type: Energy compensated Si-Diode.
- Measurement Range: Dose: 1 microSv-9.99 Sv or 0.1 mrem-999 rem.
- Dose Rate: 5 microSv/h-3 Sv/h or 0.5 mrem/h-300 rem/h.
- Calibrations: Better than + -5% (Cs-137, 662 keV at 2 mSc/h), Hp(10).
- Energy Response: Hp(10), 60 keV-3 MeV, better than + -25%, up to 6 MeV, better than + -35%.
- Dose Rate Linearity: Better than + -15%, up to 3 Sv/h (300 rem/h).
- Audible Alarms: Seven separate alarms, sound level typically better than 85 dBA at 30 cm: integrated dose, dose rate, dose overflow, dose rate overflow at 3 Sv/h or 300 rem/h, low battery 1 and 2, defect.
- Alarm Thresholds: Six preset values each for integrated dose and dose rate, manually selectable.
- Power Supply: 1 triple A Alkaline cell, life typically 1800 h in background field (dose mode).
- Reader Communication: By infrared through bottom part; by using ADR-1 Reader Head in combination with RASDOS PC Software.
- Temperature Range: -20 degrees C to + 50 degrees C.
- Relative Humidity: Up to 90%.
- Dimensions: Length: 78 x 67 x 22 mm.
- Weight: 80 grams including battery.

Part #	Description
ATIRAD-60	RAD-60 Personal Alarm Dosimeter

Detection Equipment

ARROW-TECH, INC.

GENERAL PURPOSE SURVEY METERS MONITOR 4 & 4EC

The Monitor 4 and Monitor 4EC are compact, general purpose survey meters capable of detecting alpha, beta, gamma, and x-rays over 3 selectable ranges. A red count light flashes and an audible beep sounds with rising radiation levels. The Monitor 4EC offers a more accurate linear reading for gamma and x-rays (above 40 keV).

Specifications:

- Accuracy: $\pm 10\%$ of full scale.
- Audio Indicator: Internally mounted beeper; can be switched off for silent operation.
- Range Switch: X1, X10, X100, battery check.
- Operating Range: 0-.5, 0-5, 0-50 mR/hr and 0-500; 0-5,000, 5-50,000 CPM.
- Anti-Saturation: Meter will hold at full scale in fields as high as 100 times the maximum reading.
- Power Requirements: One 9 volt alkaline battery; battery life is up to 2,000 hours at normal background radiation levels.
- Temperature Range: -20°C to 55°C (-4°F to 131°F).
- Weight: 6.3 oz. without battery (Monitor 4); 7 oz. without battery (Monitor 4EC).
- Size: 5.7" x 2.8" x 1.5".
- Includes: Carrying case, 1 year limited warranty and CE mark.
- Options: Belt clip.



Part #	Description
ATIMON4	Monitor 4 Survey Meter
ATIMON4EC	Monitor 4EC Survey Meter

RADIOLOGICAL RESPONSE KITS SE 4 & MGP RAD KIT

Operational dosimetry for personnel working with ionizing radiation sources, including:

- Hazmat teams – First Responders
- Commercial Nuclear Stations
- Medical & Research Labs
- Fuel Processing Plants
- Military Applications

SE 4 & MGP Rad Kit includes:

- 1-SE Monitor 4 or 4 EC - Survey Meter and carrying case
- 1-MGP electronic dosimeter and holder for carrying on belt or lanyard
- Extra batteries
- Vinyl gloves and specimen bags
- Pelican carrying case
- Manuals

The SE Monitor or 4EC Survey Meter in this kit detects alpha, beta, gamma and x-rays. It contains a small microprocessor and delivers an analog readout. It has a halogen-quenched uncompensated GM tube with a thin mica window. Uses one 9-volt alkaline battery.

For the MGP dosimeter in this kit, choose from the following options:

- DMC model S - x-ray and gamma: 60KeV to 6MeV.
- DMC model X - x-ray and gamma: 20KeV to 6MeV.
- DMC model XV - x-ray, gamma and beta: 20KeV to 6MeV.



These kits can be custom configured to include more than 1 electronic dosimeter or type, or a different survey meter and other accessories.

Part #	Description
ATISE4	SE 4 Rad Kit
ATIMGP	MGP Rad Kit

EXPLOSIVE DETECTION

Expray Kit from Mistral

Expray is a unique, aerosol-based field test kit for the detection and identification of Group A explosives (e.g. TNT, TNB, etc.), Group B explosives (e.g. Semtex H, RDX, C4, etc.) and compounds containing inorganic nitrates that are used in improvised explosives (e.g. ANFO). Expray is commonly used as a pre-blast, analytical tool, post-blast investigative tool, a screen against potential terrorist elements and as a technical evaluation test in soil remediation on hazardous material clean-up sites. When used as a post-blast investigative tool, the product is field proven to speed up crucial investigations.

The level of sensitivity (20 nanograms) surpasses that of other currently available products. The testing process is fast and efficient. No glass ampoules, spatulas or waiting period required. Results appear in seconds. No additional tools or equipment required. The identification/detection process requires no special training and testing can be performed "on the spot".

For both law enforcement and investigative personnel, Expray is a proven tool for increasing the accuracy, efficiency and number of interdictions. For forensic and environmental laboratories, it has proven to reduce the number of samples submitted for testing, saving both time and money.

Expray is sold in a kit configuration, which provides all three aerosol sprays, collection papers, and an RDX-impregnated verification pad (verification pad is useful for ensuring that the spraycan still contains active reagents and for demonstrating how a positive reaction will appear) in a convenient plastic carry case. Expray kits are available in both regular size (100 tests) and mini-size (50 tests).

Expray provides a low "per test" cost and poses no risk to you or the environment.

"E" Expray-1 for Group A

Expray-1 is used to search for GROUP A type explosives which include TNT, Tetryl, TNB, DNT, picric acid and its salts. To use, wipe suspected surface with special collector test paper. Spray with Expray-1. If a dark brown-violet color appears, this indicates the presence of TNT; An orange color indicates the presence of Tetryl and other GROUP A explosives.

"X" Expray-2 for Group B

Expray-2 is used to search for GROUP B type explosives which include Dynamite, Nitroglycerine, RDX, PETN, SEMTEX, Nitrocellulose and smokeless powder. If after spraying Expray-1 there is no color change, spray Expray-2. The almost immediate appearance of a pink color change indicates the presence of GROUP B explosives. Most plastic types of explosives belong to this group, including C-4 and Semtex.

"I" Expray-3 for Nitrates

Expray-3 is used to search for nitrate-based explosives which includes ANFO (ammonium nitrate-fuel oil), commercial and improvised explosives based on inorganic nitrates, black powder, flash powder, gun powder, potassium chlorate and nitrate, sulfur (powder), and ammonium nitrate (both fertilizer and aluminum). If there is still no reaction after using the Expray cans 1 and 2, but presence of explosives is still suspected, spray the same paper with Expray-3. A pink reaction indicates the presence of nitrates, which could be part of an improvised explosive.



Part #	Description
MSTEXPRAY	Mistral Expray Kit

Detection Equipment



Additional tubes available from MSA. Ask an PowerPlus Team Member for more information.

CWA (Chemical Warfare Agent) Detector Tubes

These tubes detect a wide range of nerve, blister, blood, and choking agents. These and other detector tubes are quick and simple to use with MSA's Kwik-Draw and Toximeter II Pumps to detect dozens of substances.

Features:

- Quick and inexpensive to use
- A reliable method of testing more than 170 hazardous gases vapors and chemical warfare agents
- Kwik-Draw Deluxe and Gas Tester II pumps offer automatic stroke counters and unique end-of-stroke indicators
- Tubes are printed with easy-to-read scales
- Specialized kits are available for use in HazMat work and indoor air quality testing
- Toximeter II Automatic Detector Tube Pump allows presetting of up to 250 pump strokes and "hands-free" automatic operation

Chemical Warfare Agents: characteristics, exposure symptoms, examples, detector tubes

Agent Classes	Characteristics	Exposure Symptoms	Agent Examples	MSA Detector Tubes
Chemical Nerve Agents	Attack nervous system, can enter body through inhalation or skin.	<ul style="list-style-type: none"> • Pinpoint pupils • Runny nose • Drooling • Coughing • Tightness in Chest • Muscle twitching, jerking • Nausea, vomiting, diarrhea • Convulsions • Coma • Death 	<ul style="list-style-type: none"> • Tabun (GA)-CAS #77-81-6; Odor: None or fruity • Sarin (GB)NCAS #107-44-8; Odor: None or fruity (used in Tokyo subway attack a few years ago) • Soman(GD)—CAS #96-64-0; Odor: None or camphor (mothballs) • VX NCAS #50782-69-9; Odor: None or sulfur 	MSA10007654 Variety Pack Includes all 3 tubes MSA10007652
Chemical Blister Agents	Attack skin and can also be inhaled. Are absorbed rapidly into skin.	<ul style="list-style-type: none"> • Itching of eyes • Nausea, vomiting • Hoarseness or hacking cough • Initial redness of skin, followed by blisters • Skin effect varies with agent: • Mustard gas (H): no immediate effect • Lewisite (L): immediate pain 	<ul style="list-style-type: none"> • Mustard Gas (H)-CAS #505-60-2; Odor: Garlic • Lewisite (L)-CAS #541-23-3; Odor: Geraniums 	MSA10007653 MSA10007650
Chemical Choking Agents	Attack respiratory tract.	<ul style="list-style-type: none"> • Coughing, nausea, vomiting • Irritated eyes, nose, throat • Shortness of breath • Pulmonary edema • Frothy secretions 	<ul style="list-style-type: none"> • Phosgene (CG)-CAS #75-44-5; Odor: Newly mown hay • Chloropicrin • Chlorine 	MSA10007651
Chemical Blood Agents	Attack circulatory system. Have rapid onset.	<ul style="list-style-type: none"> • Occur immediately • Loss of consciousness • Convulsions • Apnea • Headache 	<ul style="list-style-type: none"> • Hydrogen Cyanide (AC)-CAS #74-90-8; Odor: Bitter almonds • Cyanogen Chloride (CK)-CAS #506-77-4; Odor: Bitter almonds 	MSA10007651

Detection Equipment

PORTABLE DETECTION INSTRUMENTS



MSA's Gas-Tester® II H Pump

Assures accurate samples, because the sample draw procedure is controlled only by the specifications of the pump and the flow resistance of the detector tube. The user compresses the bellows to set the pump for action, then presses the release button. When the sample (100 ml) is drawn through the tube, the end-of-stroke indicator within the pump tube changes color.



MSA's Toximeter® II Automatic Pump

Allows the user to preset the number of pump strokes (from 1 to 250). Intrinsically safe, it works with all MSA detector tubes and can also be used as a sampling pump.



MSA's Kwik-Draw® Deluxe Pump

Designed for one-hand operation and consistent delivery of a sample draw volume of 100 ml. It can be used with an assortment of detector tubes to spot-test atmospheres for a wide variety of toxic substances.



Quad-Port Sampler shown with Kwik-Draw® Deluxe Pump. The Quad-Port Sampler allows four chemical classes to be tested simultaneously.

Part #	Description
MSA487500	Kwik-Draw® Deluxe Pump, with remote sampling adapter, carrying pouch & end-of-stroke indicator
MSA488543	Kwik-Draw® Basic Pump, with remote sampling adapter & carrying pouch
MSA655585	Toximeter® II Automatic Detector Tube Pump
MSA696944	Gas-Tester® II H Pump

Most MSA portable instruments can be built to your exact needs via our ATO (Assemble-to-Order) System. Some popular configurations have assigned part numbers. Call an PowerPlus Team Member for ordering information.

Calibration kits, cylinders, accessories, and a squirt gas bump test kit help assure you of accurate monitoring. An PowerPlus Team Member will help you choose the correct equipment for your needs.

Detection Equipment



HAZMAT RESPONSE KIT

The HazMat Response Detector Tube Kit can be used by firefighters, HazMat Response teams, and other workers to help classify unknown chemical gases and vapors at accident or spill sites. The Quad-Port Sampler which is a multiple tube holder, allows four chemical classes to be tested simultaneously. The portable kit contains 12 types of Detector Tubes (each with sufficient tubes for 10 complete tests—see below), a Kwik-Draw Deluxe Pump to draw the sample through the tubes, a multiple tube holder and an easy-to-follow interpretation guide.

Tube No.	Tube Identification	Minimum Detectable Concentration	Chemical Class Indicated by a Positive Test	Color Change	Specific Compounds Typical of this Class
Tube Holder A					
1	804136 Ethanol-100	500 ppm	Alcohols	Red to Grayish-green	Ethanol, methanol, butanol, pentanol
2	804132 Aromatic Hydrocarbons	25 ppm	Aromatic hydrocarbons	White to Brown	Benzene, toluene, xylene, ethylbenzene, chlorobenzene, bromobenzene
3	497667 Hexane-20	100 ppm	Organic gases	Orange to Green Brownish-black	hexane, cyclohexane, cycloheptane, cyclooctane, n-decane, n-nonane, n-pentane, isooctane, methylbutane, heptane
4	803945 HCN-2 Hydrogen Cyanide	10 ppm	Hydrogen cyanide	Blue to Yellow	Hydrogen cyanide
Tube Holder B					
5	487343 Trichloroethane-5	25 ppm	Halogenated Hydrocarbons	White to Brown-green	Trichloroethane, methyl bromide, ethyl bromide, ethylene dichloride, vinyl chloride, chlorobromomethane
6	487341 NO ₂ -0.5 Nitrogen Dioxide	2.5 ppm	Oxidizing gases	White or Light Yellowish-gray to Blue	Nitrogen dioxide, halogens (chlorine, bromine), chlorine dioxide
7	803943 CO-5 Carbon Monoxide	25 ppm	Carbon monoxide	White to Brown-green	Carbon monoxide, acetylene
8	804134 Triethylamine-5	25ppm	Amines	Yellow to Blue	Triethylamine, ammonia and other amines including hydrazine
Tube Holder C					
9	487333 CO ₂ -0.1% Carbon Dioxide	0.5%	Carbon dioxide	White to Violet	Carbon dioxide
10	803948 HCL-1 Hydrogen Chloride	5 ppm	Acid gases	Blue to Yellow	Hydrogen chloride, chlorine
11	804589 Ethyl Mercaptan	5 ppm	Mercaptans	White to Yellow	Ethyl mercaptan, methyl mercaptan, butyl mercaptan
12	804428 Ethylene-50 hydrocarbons	250 ppm	Unsaturated	Orange to Green-brown	Ethylene, propylene, acetylene

Part #	Description
MSA807472	HazMat Response Detector Tube Kit includes 12 types of detector tubes, multi tube holder, Kwik-Draw Pump & guide
MSA485233	Extra Quad-Port Sampler
MSA487500	Kwik-Draw Deluxe Pump
MSA488543	Kwik-Draw Basic Pump

! WARNING

The results of the HazMat Kit must not, under any circumstances, be used as the only evidence of the presence or absence of a particular contaminant. The kit must be used in conjunction with other test means or other information to confirm the identity of an unknown atmosphere. Failure to follow this warning can result in serious personal injury or death.



Detection Equipment

FIREFLIR™ LIGHTWEIGHT HANDHELD THERMAL IMAGING CAMERA

The FF-130 combines state-of-the-art detector technology with innovative, task-oriented mechanical design. The FF-130 features a customized MicroIR microbolometer detector that has the best resolution, fastest update rate, and widest dynamic range available in the firefighting industry. The use of proprietary, fully upgradeable software gives the FF-130 thru-the-lens digital temperature measurement, exclusive color palettes, and InfoTherm, an exciting feature that enhances situational awareness by applying a color palette to temperatures around the combustion point of paper and wood products.

The ergonomic mechanical design of the FF-130 complements the firefighter's ensemble. A variety of holding positions gives firefighters maximum flexibility, including the ability to look under, over, and around obstacles. Whether standing, walking, crawling or kneeling, firefighters can comfortably rely on the FF-130 to see the scene in front of them. With the industry's largest display, the FF-130 also allows for shared viewing by an entire attack team. The controls are large and easy to reach with one hand, and battery change is fast and easy, even in dark or smoky atmospheres.

The FF-130 is designed to be carried low, near the waist, relieving strain on the shoulder and distributing the weight throughout the arm. Competitive cameras force the user to hold the camera high, putting all the pressure on the shoulder muscle, while blocking the natural field of view of the user.



Uncooled Microbolometer Detector	
State-of-the-art infrared detector	Unsurpassed thermal imaging quality
True staring Docal Plane Array (FPA)	No blurring, halo-effects or other motion artifacts
515°C Dynamic Range	Wider range of viewable temperatures, no man adjustment required
320 x 240 pixels	Photographic-quality imagery
0.1°C sensitivity	
Advanced Optics and Display	
55° field of view	Wide angle viewing
Large 12.7cm LCD	Can be viewed simultaneously by multiple firefighters
Germanium Window	Durable protection for optics
Digital signal processing	View objects of extreme temperature differences
Internal Cooling System	
Thermal Phase™ cooling technology	Ensures optimal performance in extreme heat
Redundant thermal protection	Applied to all electronics, display and optics
Mechanical	
Meets IP67	Standard for water immersion
< 10 second battery change	Fast deployment
Usable when standing, walking, crawling	Supports standard operating procedure
No continuous moving parts	Mechanically reliable and robust

- *Most Durable Handheld Available.*
- *High Definition VOx Microbolometer.*
- *Viewable When Crawling.*
- *Supports 300 Lbs. for Crawling.*
- *Lightweight & Well Balanced.*
- *Large Easy-View Display.*
- *Advanced Software Features.*
- *Glove-Friendly, Pushbutton Controls.*

Part #	Description
FF130	FireFLIR™ handheld thermal imaging camera

Detection Equipment



FiveStar®

The FiveStar® Alarm is available with sensors to detect combustible gas and oxygen, plus up to 3 more gases (such as carbon monoxide, hydrogen sulfide and chlorine). It is rugged, incredibly easy to use and economical to operate. Order a popular part-numbered kit, or choose a custom-built FiveStar Alarm that is Assembled-To-Order (ATO).

Part #	Description
MSA10018002	FiveStar® Alarm Deluxe Kit with LEL, O ₂ , CO, H ₂ S sensors; NiCd battery, calibration kit, fast charger, Pulsecheck pump, line, probe and case.



Passport® VOC 2000

The Passport® VOC 2000 Organic Vapor and Oxygen Monitor conveniently detects low concentrations (1 to 10,000 ppm) of volatile organic compounds, such as jet fuels, MEK, benzene, and toluene, plus oxygen levels. Order a popular part-numbered kit, or choose a custom-built Passport® VOC 2000 that is Assembled-To-Order (ATO).

Part #	Description
MSA10010864	Passport® VOC 2000 monitor kit with NiCd battery, charger, 10-ft. Teflon sampling line, 1-ft. probe, belt clip.



Escort® LC

The Escort® LC Sampling Pump can be used in hostile environments with a wide variety of personal and area sampling devices to collect airborne contaminants such as asbestos fibers, toxic gases, vapors, particulates, fumes, mists and silica dust. Compact, lightweight and quiet, the unit can be sprayed with water while operating without being damaged.

Part #	Description
MSA711400	Escort® LC Sampling Pump kit with 110V single-unit charger and standard packaging



Orion®

The Orion® Multigas Detector is a low-cost, reliable, easy-to-use handheld instrument. It takes rough handling in tough environments while detecting O₂, H₂S, CO, and combustible gases. A charger is included; a built-in sampling pump is optional.

Part #	Description
MSA10025932	Orion Multigas Detector



Pulsar®

MSA's new Pulsar® Single-Gas Detector provides maintenance free, 24-month monitoring for detection of CO, H₂S, or O₂. It requires no field calibration or battery/sensor replacement. With triple alarms, it can be worn on a pocket, belt, or helmet. It's designed to survive a 6-foot drop and meet an environmental protection rating of IP54; it is water and dust-tight.

Part #	Description
MSA10032580	Pulsar® Single-Gas Detector for CO
MSA10032596	Pulsar® Single-Gas Detector for O ₂

MiniCO, MiniH₂S, MinOX and MinOX Remote Responder®



Responder® Series of O₂, CO, and H₂S single-gas indicators are lightweight, pocket-sized alarms with digital displays and adjustable alarm levels. They provide fast, accurate sampling, on/off capabilities, and audible, visible, and vibrating alarms. The MinOX® Remote Responder Alarm has an external sensor attached to a 10-foot cable.

Part #	Description
MSA710424	MiniCO Responder® with on/off capabilities.
MSA710850	MiniH ₂ S Responder® with on/off capabilities.
MSA710965	MinOX Responder® with on/off capabilities.
MSA1001923	MinOX Remote Responder® with 10-ft cable and on/off capabilities.



Detection equipment comes with a variety of sensor, battery and accessory options. Ask an PowerPlus Team Member to assist you in finding the right equipment for your needs.

Detection Equipment

MicroMAX Multi-Gas Detector

Designed to provide personal safety, the MicroMax is OSHA compliant. Its rugged aluminum case provides superior RFI/EMI shielding, as well as dust, water and impact resistance. MicroMax is designed, tested and manufactured under strict ISO 9001 quality systems, and is UL classified and CSA certified intrinsically safe for use in Class I, Division I and II, Groups A, B, C, and D areas. Worker safety is our business, and Lumidor continually improves its gas detectors' quality and features. MicroMax simultaneously monitors 1 to 4 gases (5 with Combo-Tox™). Allows for easy pre-testing in confined spaces and provides almost instantaneous readings of gas concentrations. The MicroMax has many preset and field selectable alarms. Both audible and visual alarms warn the user if the oxygen levels are either too low or enriched, and when combustible gas or toxic gas levels are too high. The toxic gas alarms can be easily adjusted in the field from immediate to TWA. Alarms will also activate in case of sensor failure, low battery voltage, pump blockage or low air flow. Lumidor's unique microprocessor design allows for self diagnostics with each start up. MicroMax internally data-logs individual channel alarms, TWA averaging and peak information. With a push of the "Mode" button, review information as well as check battery voltage and elapsed time. This information is available for display and documentation by downloading to a standard PC when the data-logging option is purchased. Calibration is also easy — simply place in calibration "Mode", introduce calibration gas, wait two minutes and calibration is complete! A NiMH rechargeable battery pack and 4-hour charger are now included with each monitor; however, the flexibility of operating the monitor with alkaline batteries is still retained. Ask about included accessories.



MicroMAX Pro Multi-Gas Detector



Now with Voice Assist for added safety, the MicroMAX PRO is designed to provide the ultimate in personal safety. The MicroMAX PRO combines diffusion and built-in internal sampling pump systems. In order to save power, the pump can be switched off and the diffusion mode will take over. MicroMAX PRO has preset and field selectable alarms.

BASE UNIT	# OF SENSORS	GAS*	RANGE
MPRO	4	A = Oxygen (O ₂)	0 - 40% by volume
		B = Combustible (LEL)	0 - 100%
		C = Carbon Monoxide (CO)	0 - 999PPM
		D = Hydrogen Sulfide (H ₂ S)	0 - 500PPM

Additional Sensors available for:	Range:
E = Ammonia (NH ₃)	0-200 PPM
F = Chlorine (Cl ₂)	0-20 PPM
G = Chlorine Dioxide (ClO ₂)	0-10 PPM
H = Sulfur Dioxide (SO ₂)	0-20 PPM
J = Phosphine (PH ₃)	0-20 PPM
K = Nitrogen Dioxide (NO ₂)	0-50 PPM
L = Hydrogen Cyanide (HCN)	0-200 PPM
M = ComboTox (CO & H ₂ S)**	0-500 PPM
N = Combustible (% by Volume)	0-100% CH ₄

** counts as TWO sensors

Part #	Description
LUMMPRO-4ABC	MicroMax Pro Multi-Gas Detector w/Voice Assist.
LUMMAX-4PL	MicroMax, Multi-Gas Detector, Combustible, Oxygen, Carbon Monoxide and Hydrogen Sulfide.
LUMMAX-KIT1	MAX Value Kit, Four-In-One Calibration Gas Cylinder (58 Liter), Regulator, Video & Case.
LUMMAX-KIT-1MINI	MAX Value Kit, Four-In-One Calibration Gas LUMCylinder (15 Liter), Regulator, Video & Case.
MAXKIT-5	MAX Value Kit, Alarm "Bump" Check Gas, Video & Case.

MAX VALUE Calibration Kits

MAXKIT-1

This kit includes: "Four-In-One" calibration gas cylinder (58 liter), a regulator and tubing, an operation/maintenance video, and a watertight/impact resistant carrying case.

MAXKIT-1 Mini

This kit includes: "Four-In-One" calibration gas cylinder (15 liter), a regulator and tubing, an operation/maintenance video, and a water and impact resistant carrying case.

MAXKIT-5

This kit includes: Alarm "Bump" check gas, an operation/maintenance video, and a water and impact resistant carrying case.



Detection Equipment

Scout Multi-Gas Personal Monitor

Features:

- Long battery charges — both the Alkaline and Lithium-Ion battery packs deliver power over 50 hours.
- One-touch quick release battery — lock and latch, no-tools battery replacements.
- Easy user maintenance and upgrades — plug-in components permit in-the-field upgrades.
- Foolproof Intellishutter™ design — easily switches between diffusion and sampling modes.
- Versatile and easy to use for both the basic and advanced user.
- Smart, powerful pump adds confidence — optional integral pump permits samples to be taken from up to 100 ft. away.
- Multi-gas monitoring features — detects up to 5 toxic gases simultaneously with the 3 additional sensor ports.
- IRIS™ wireless charging and communications system.



Part #	Description
SCO096-2561	Multi-Gas Personal Monitor

Mini-SA Portable Single Gas Monitor

The Mini-SA is a superior cost-effective gas detection instrument, and an effective tool for protecting personnel from a variety of airborne hazardous gases. Gloved hands, low light conditions, and respirator equipment won't interfere when your people are equipped with the Mini-SA Personal Gas Monitor. Scott Instruments engineers have combined simplicity and functionality in a feather-light package with big easy-find buttons and the largest backlit display in the industry. This unique display provides large screen lettering allowing STEL, TWA, and gas concentration to be viewed at-a-glance, even under low light conditions.



Specifications:

- Dimensions: 3.125" x 3.125" x 1"
- Body: Black polycarbonate/ABS with removable snap action battery cover on rear of case.
- Display: Liquid crystal display measuring 1.875" x 1.25" with 119X73 pixels.
- Accuracy/Repeatability: +/-3% of applied gas.
- Temperature Range: -4 to +122°F continuous; -40 to +131°F intermittent.
- Sensor Life: 2 years typical.
- Battery: (2) AAA Alkaline.
- Alarms: All alarms displayed on LCD; visual, audible and vibratory alarms are standard; audible sound level 85dB typical at a distance of 1 foot.

Features:

- Low cost of ownership.
- Simple - English menus for easy operation.
- Easy pushbutton operation - even with gloves on.
- Simple sensor replacement with auto-sensor configuration - no tools required.
- Auto calibration.
- Intrinsically safe.
- Visible, audible and vibratory alarms.
- 1000+ hours of operation.

Auto Calibration Docking System

The Auto-Calibration Docking System utilizes IRIS software to provide an easy and effective means to monitor employee exposure levels and store each instrument's complete operational history. Data including individual exposure levels, instrument calibration, configuration and operational data all contribute to a complete and comprehensive record of events within your facility. Every time a Scout is docked into a cradle, data is automatically uploaded for retrieval by a standard word processing or spreadsheet program.

The IRIS system can calibrate up to 5 Scouts at a time and super-streamlines calibration down to one or two minutes with the simple push of a button. Concise electronic control and gas delivery significantly reduces waste of expensive calibration gas.

With the Windows-based software, sensor health is monitored so that program administrators and maintenance managers are better able to predict sensor replacement. Reports are easily generated and sensors shown as "weak" can be ordered now - keeping expedite and inventory costs down and instruments up and running rather than sitting on repair shelves.



Part #	Description
SCO096-2566	Auto Calibration Docking System PC: does not include monitor, keyboard or mouse; includes auto-calibration software and IRIS full software
SCO096-2567	Master Docking Cradle
SCO096-2882	Multi-Cradle Expansion Kit
SCO096-2874	Slave Docking Cradle

Decontamination

EasyDECON™ Proven Decontamination Technology

Five years of testing has produced one of the most powerful decontamination foams available to emergency response professionals. Sandia National Laboratories (SNL) under a grant from National Nuclear Security Administration's Chemical and Biological National Security Program developed the foam decontaminant for use in Chemical and Biological Warfare (CBW) associated with contemporary Weapons of Mass Destruction (WMD).



The foam has been tested and proven effective by various military test sites, including Edgewood Biological/Chemical Center, Dugway Proving Grounds and by rigorous tests at Sandia National Laboratories.



In Sandia National Laboratories and military tests of their formulation against chemical warfare agents the foam proved effective against G agent series including Sarin, Soman, and Tabun. Testing was also effective against VX, Mustard Gas and many of the most powerful CW agents.

EasyDECON™ has been used in Washington and other key decontamination areas. Cleanup workers have taken quantities of the formulation with them into Congressional office buildings as one of the decontamination products selected to help remediate the Hart and Dirksen Senate mail rooms and the Ford Congressional mail rooms in Washington, D.C. This powerful foam is being adopted by emergency response professionals wherever release of hazardous substances is a threat.

While deadly to WMD threats, the formulation is a non-toxic, aqueous foam, safe to use and will not damage the environment. Unlike bleach, EasyDECON™ creates no toxic by-products in either the mixing or decontamination process.

Easy to deploy, EasyDECON™ is available in a variety of sizes and can be used with the Intelagard dispersal systems, specifically designed for the economic release of the decontamination foam. EasyDECON™ components stored unmixed have up to a five year shelf life.

EasyDECON™ when used through the Intelagard dispersal systems expands at a ratio of 1:1 to 70:1. It is the ideal, cost efficient decontaminant for mortuary prep, equipment decon, suited personnel decon, equipment and environment decon and vapor suppression. Potential EasyDECON™ applications include use by the first responder community, civilian facilities restorations, military response to WMD events, Civil Support Teams, industrial sites, refineries and demilitarization of CW munitions.

DF200 Formula Now Available!

Part#	Description
INT200-1623	Training solution RTM 5-gal. pail
INT200-5313	Binary Blend, 5-gal. pail
INT200-6423	Ready-to-Mix (RTM), 5 gal. pail
INT200-1533	Training solution Binary Blend, 10-gal. pail
INT200-6424	Ready-to-Mix (RTM), 10 gal. pail
INT200-5314	Binary Blend, 10-gal. pail
INT200-1624	Training solution RTM, 10-gal. pail
INT200-1534	Training solution Binary Blend, 10-gal. pail
INT200-6524	Ready-to-Mix (RTM), 50-gal. drum
INT200-5315	Binary Blend, 50-gal. drum
INT200-1625	Training solution RTM, 50-gal. drum
INT200-1535	Training solution Binary Blend, 50-gal. drum
INT200-6426	Ready-to-Mix (RTM), 250-gal. tote
INT200-5316	Binary Blend, 250-gal. tote
INT200-1626	Training solution RTM, 250-gal. tote
INT200-1536	Training solution Binary Blend, 250-gal. tote

EasyDECON™ 200 Solid Ready-to-Mix Personal Incident Decontamination System (PIDS)

EasyDECON™ 200 Solid RTM PIDS kit was engineered to provide immediate decontamination capabilities for small area and individual equipment decontamination. The PIDS kit comes complete with everything needed to mix EasyDECON™ 200 Solid RTM decontamination solution and rapidly respond, control and eliminate chemical and biological hazards.



EasyDECON™ 200 Solid RTM decontamination solution can be removed with a wet/dry vacuum or clean, fresh water.

Part#	Description
INT200-6421	Personal Incident Decon Sprayer (PIDS), 16 oz.

Decontamination



INTELAGARD®

The MACAW

The MACAW is the first totally independent compressed air foam (CAF) backpack in the world. The MACAW harnesses the power of stored air energy in a comfortable backpack design. Ease of operation combines with rugged construction to create a portable CAF system that is reliable and ready for instant response in the most demanding situations. The MACAW expands the five gallons of carried water into as much as 250 gallons of finished protein foam. All this at the remarkably low price of less than 80 cents per fill, with Class A foam! The MACAW can shoot a stream of foam up to 35 feet, enabling the user to maintain a safe distance from smoke, flame or heat.



The MERLIN

The MERLIN is a CAF handcart with 15 gallon twin-tank capacity. The easy-to-carry design provides rapid deployment capabilities and ease of operation for emergency response professionals deployed in Level A, MOPP and Turnout gear. The Merlin is a dual capacity system. It can store onboard energy and payload, or easily convert into a drafting system. The Merlin can project expanded foam up to 45 feet, depending on the foam product and nozzle used. This unit is an ideal powerhouse for use in fire suppression, exposure protection, hazmat cleanup and WMD decontamination.



The SWIFTRUNNER™ Portable CAF

The SwiftRunner™ is the perfect option for mid-size mobility. It fits on most commercially available ATVs, trucks or Humvees. Currently in use at airports, this system is designed for use in most emergency situations from decontamination to fire suppression. Easy to operate and maintain, this unit can mobilize immediately expanding its payload by 40:1-70 :1.



The FALCON™ Truck Mounted CAF System

The Falcon is Intelagard's latest truck mounted, slip-on Compressed Air Foam (CAF) unit. It features an advanced, modular-designed component compartment with control panel and a self-contained rotary screw air compressor. Tank capacities range from 100 to 1200 gallons. Standard units: 250 gallons. Projection distance up to 110 feet with 1.5 inch hand lines. Swift activation, effectiveness and reliability make the Falcon an ideal choice for use in a wide range of emergency response situations. Compact system size and flexible configurations allow for fitting system onto highly mobile apparatus.



The TALON™ CAF Conversion Module

The Talon™ from Intelagard enables you to convert any air supply and water tank into a high performance CAF system instantly! Unique to the industry, the Talon's compact modular design makes it an ideal solution for retrofitting, upgrading or converting most firefighting apparatus into an easy-to-operate, water expanding CAF system. The Talon readily integrates with a wide array of diesel/gas compressors and features a simple control panel for rapid deployment. The automatic foam proportioner offers economical operation and the ability to fine tune Class A foam for perfect consistency.



The CONDOR

The Condor is the largest, high-performance CAF unit in the Intelagard product line. Its advanced design features a self-contained gas or diesel air compressor and can be configured from two (250 gallon) totes to eight totes. It shoots a powerful 120 ft. stream (1.5 inch hand lines) and may be used for standard fire fighting as well as decontamination.



Custom Trailer Units

Custom trailer units harness the power of Intelagard foam technology without the need for a dedicated vehicle. These unique systems can be configured with either stored air or compressor power. System sizes are available from 100-1,000 gallons, producing from 5,000 to 50,000 gallons of finished foam.

Decontamination

AiroCide TiO₂

Airborne Pathogen Killer for use in jails, holding cells, infirmaries, hospital, clinics, surgical centers and mold containment centers.



AiroCide TiO₂ is a revolutionary device that **kills 93.3% of airborne pathogens** that pass through it. The technology emerged from an ethylene gas removal unit which was originally funded by NASA. That system, called Bio-KES, is used by the produce industry to preserve perishables.

A unique combination of ultraviolet light (UVGI) and bio-active hydroxyl radicals inside the AiroCide unit actually destroys bacteria, viruses, fungi, molds & spores. It does not trap, redirect nor store them for later disposal. Since the unit works constantly to sanitize the air and reduce cross-contamination, it is the perfect addition to a conscientious safety plan.

AiroCide TiO₂ Kills:

- Bacillus Anthracis (**Anthrax**)
- Streptococcus Pyogenes
- Legionella Pneumophila
- Mycoplasma Pneumoniae
- Neisseria Meningitidis
- Reovirus
- And many others



- Influenza A (flu)
- E. Coli
- Mycobacterium Tuberculosis
- Adenovirus
- Echovirus
- Staphylococcus Aureus

Part #	Description
AIRTIO2	AiroCide TiO ₂



ISO BAG™

The ISObag™ **POSTAL ISOLATION AND INSPECTION GLOVEBAG** is designed specifically to enable safe handling of letters and small parcels for mailroom operations.

ISObag™ glovebags are designed to allow workers to quickly enclose, isolate and seal a work area. Gloved sleeves extending into the bag enable safe inspection of suspicious mail, thereby greatly reducing risks of direct contact. The ISObag™ allows work operations to be completely isolated from the worker and is designed for limited use applications.

ISObag™ **POSTAL ISOLATION AND INSPECTION GLOVEBAGS** have the same industrial-use features as the company's line of AVAIL glovebags used for the safe removal of asbestos pipe insulation. All Avail glovebags are constructed of polyethylene film specially formulated for strength and clarity. Thermal impulse seals ensure glovebag integrity. Latex gloves are thermally bonded to sleeve assemblies. Sleeves are positioned to allow easy access to the work area. Latex work gloves are cotton flock lined and extra large for worker comfort.



Part #	Description
GRA01813636	ISObag™36, 36" x 36" 14" dia. x 30", 4 mil, 5 per case



Decontamination



Add-A-Level® Decon Flooring System

Use as drainage flooring in decontamination pools or tents. Lifts patients above contaminated water. Flow-through grid allows chemicals to drain below. All-plastic — will not rust, rot or corrode. Impervious to oils, gas, and most chemicals. A variety of sizes are available to fit your specific spacing needs.

Part #	Description
SPCA3624B	36" x 24" x 2-7/8" Base Unit
SPCA6624B	66" x 24" x 2-7/8" Base Unit
SPCA9624B	96" x 24" x 2-7/8" Base Unit
SPCA9636B	96" x 36" x 2-7/8" Base Unit
SPCARING05	1/2" Elevation Ring



Portaveyor



ACSI's Portaveyor is a portable, quick deployment conveyor system for non-ambulatory patients. Portaveyor units come in two standard sizes 8' and 12' (longer units are available upon demand). The unit consists of a pair of heavy duty "A" frame stands a foldable 8' or 12' spanning aluminum support beam and 8 or 12 rollers. Portaveyor can be erected in minutes with no tools. Storing is just as easy, simply fold the stands and re-join them at the side hinges, now simply store the rollers and folding beam within the cavity of the stands and close the now suit case sized package with the positive latches.

Specifications:

Stored Dimensions

Length	33"
Width	21"
Height	10"
Weight	8' Unit approx. 70 lbs. 12' Unit approx. 110 lbs.

Deployed Dimensions

Length	8' or 12'
Width	21"
Height	32.5"



Part #	Description
ADCPORT8	Portaveyor, 8'
ADCPORT12	Portaveyor, 12'

Decontamination

PROFESSIONAL PROTECTION SYSTEMS

PPR DPI (Decontamination Portable Inflatable)

(Decontamination shower for use by those requiring rapid decontamination including emergency services)

- Approximately 75" x 75" x 90" size
- Approximately 85 lbs.
- Deployment in 3 minutes
- Inflate from BA cylinder or compressor
- 6 shower jets and 1 hand brush for rapid decontamination
- Efficient 10 gpm (approx) total flow rate
- Optional disposable inner liner
- Optional detergent injection
- Waste water containment



DPI

PPR DPIX2

(Twice the Size of a DPI)

- Approx 115" x 75" x 95" larger unit for 2-4 person decon
- Weighs approx 92 lbs. only
- Deployment in three minutes
- Inflate from SCBA cylinder or compressor
- 12 shower jets & 2 hand held water fed brushes
- Efficient 20 gpm (approx.) total flow rate
- Integral valve can limit flow to one chamber only if needed
- Optional disposable liner
- Optional decon assistance
- Optional detergent injection
- Waste water containment



DPIX2

Decas W

Accepts one stretcher bound casualty or two walking wounded with space for Paramedic assistance. Has 2 water-fed hand-held shower sprays. Comes in canvas bag.

Approx. 114" x 75" x 90.5" Approx: 88 lbs.



Decas W

Decas V2

Separate undressing and shower areas. Has 2 water-fed hand-held shower sprays. Comes in canvas bag.

Approx. 114" x 75" x 90.5" Approx. 88 lbs.



Decas V2

Decas V3

Separate shower cubicles. Designed to accept males, females and casualties separately. Has 2 water-fed hand-held shower sprays per cubicle. Comes in canvas bag.

Approx. 216" x 114" x 90.5" Approx. 200 lbs.



Decas V3

PLY Shelter XI

If minutes can save lives, you want only to unfold and switch-on this shelter. This compact, simple and immediately assembled shelter is specially designed for use in any emergency or disaster situation, or any situation where time or manpower is of critical importance. One person can erect the Plyshelter in only 15 minutes. The many features of the Plyshelter include easy and immediate assembly, adaptability to a variety of uses, innovative construction and durability of materials. Uses of the Plyshelter can vary from an emergency hospital site and casualty station to a disaster site with a control, waiting and decontamination room. The outlets on each side of the Plyshelter can be connected to a second Plyshelter or other inflatable equipment. Inflated by either a compressed air cylinder or electric blower.



PLY Shelter XI

Material: Tent fabric is extra strong polyurethane coated nylon with an incorporated ultraviolet inhibitor. Seams are machine double stitched through out. Plyshelter and internal dividers: Reinforced Nylon/Polymide; 240 gram/m², 1200 N/5cm. PU coating. Water belts: Complane/PVC 850 gram/M².
Specification: Plyshelter XI (shown) Weight: 210 lbs. Floor Space: 20' x 19' x 10'

Part #	Description
PPR-DPI	DPI Decontamination Portable Inflatable
PPR-DPIX2	DPIX2 Decontamination Portable Inflatable
PPRP-SXI	PLY Shelter XI Decontamination Unit
PPR-DECAS-W	Decas W Decontamination Unit
PPR-DECAS-V2	Decas V2 Decontamination Unit
PPR-DECAS-V3	Decas V3 Decontamination Unit

Other PPS Decon Systems Available:
Multiple configurations available including custom capabilities.

For Additional Information on PPS Heaters and Accessories, call an PowerPlus Team member.

Decontamination



Lightweight Compact Rapid Deployment Mass Casualty Decontamination Unit

ADC Unit:

- Self Contained Decontamination
- Heavy Duty Steel Chassis and Frame
- Lightweight Aluminum Exterior Construction
- Quick Deployable Expanding Side Showers
- Exterior Swing-out Booms for External Connections
- Multi-head Shower Booms
- Heat Wave III Included for Remote Area Deployment
- Portable 10Kw Generator
- Automatic Decon Solution Injection
- Complete Setup in About 10 Minutes!



Features:

- Unit can be pulled by a pick-up or a Suburban.
- Accommodates Three Separate Decontamination Lines.
- Male and Female Side Showers With Privacy Curtains.
- Includes an Enclosed Shelter For Non-Ambulatory Service.
- Portable Diesel Fired Fresh Air Heater Included.

Part #	Description
ADCUNIT	Lightweight Mass Decontamination Unit
ADCTRAILER	Mass Casualty Decontamination Trailer
ADCHELTER	Quick Erect Shelter

Mass Casualty Decontamination Trailers

ACSI's mass casualty decontamination trailers are designed for high through put WMD (Nuclear, Biological or Chemical) decontamination applications. Custom electrical and plumbing layouts, negative or positive ambient pressure systems, precise solution injection systems and electronic process automation controls are but a few of the options available. Flow-through brushes and shower wands in gross decontamination zone aid in initial treatment. Custom designed in-line shower zones with segregated compartments are designed to ensure privacy and minimize cross contamination. Effluent water flows to either an on-board gray water tank or specially designed bladder bags that can be left on site for proper disposal.

Stainless steel clothes chutes allow contaminated clothing to be disposed of into exterior drums to eliminate off-gassing. Specially designed aluminum and/or stainless steel custom cabinetry will not rust or deteriorate due to ambient moisture and can be easily decontaminated.

Specifications: Exterior Dimensions

Length	40'
Width	8'
Height	11.5'

Decon Area Dimensions

Length	24' - 6"
Width	8'
Height	7'



Quick Erect Shelter

ACSI's Quick Erect Shelter is a lightweight extra heavy-duty multi-purpose portable shelter. Quick Erect Shelter has no loose parts and requires no tools or experience to deploy. Simply extending the corners of its articulating structure deploys this shelter. Once deployed its spacious interior is unencumbered by poles or supports maximizing interior usable space. Collapsed for storage its volume is only 2% of its deployed dimension making it easy to store and transport. Its fabric is abrasion resistant, water repellent, fire retardant, and UV resistant for heavy and prolonged use. Its articulating support structure is made of space age composite corrosion resistant ultra light tubing. Quick Erect Shelters are of modular design and can be combined with other Quick Erect Shelters to form a multiple shelter complex if needed. The shelter is stored in its own heavy-duty bag and includes a staking and repair kit.

Specifications: Storage Dimensions

Length	42"
Width	28"
Height	52"
Weight	330 lbs.



Deployed Dimensions

Length	20'
Width	14.5'
Height	9'



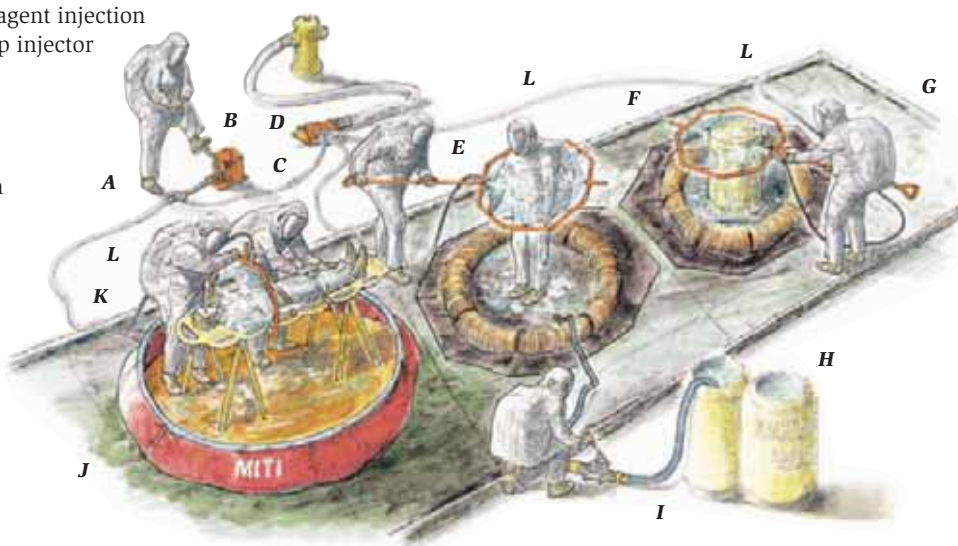
MITI Decontamination System

MITI Portable DeCon System

The patented MITI Portable DeCon System includes spray hoops, a high pressure soap injector, a multi manifold, a diaphragm hand pump, decon waste pool (primary containment) and a containment berm (secondary containment).

The picture on the right depicts primary and secondary containment and typical application and use for MITI DeCon Hoop wash system.

- A Controlled soap or neutralizing agent injection
- B MITI portable high pressure soap injector
- C Flow control
- D MITI Multi manifold
- E Two person decontamination
- F Equipment wash
- G MITI Secondary inflatable decon containment berm
- H MITI Self-expanding reinforced wall waste pool with protective ground pad and disposable liner
- I MITI Portable diaphragm hand pump
- J MITI inflatable collar pool
- K Half-hoop configuration
- L MITI Decon spray hoop



Secondary Inflatable Sidewall DeCon Containment Berms

MITI's Standard Duty Secondary Inflatable Side-Wall Decon Containment Berms are designed to effectively contain the over-spray from the DeCon activity.

Construction of durable 10 oz. polyethylene woven rip-stop fabric with sewn and sealed seams. The fabric is impervious to most chemicals and is water resistant. The side-wall inflation tubes, which are replaceable, are constructed of 28 oz. heavy duty polyester fabric with PVC coating and are totally contained within the side-walls. Inflation by SCBA, air cylinder, portable blowers, foot pump, etc.

MITI's Heavy Duty Secondary Inflatable Sidewall Decon Containment Berms are designed to effectively contain the over-spray from the DeCon activity. Construction of durable 32 oz. PVC coated and woven rip-stop fabric with dielectric welded seams. The fabric is impervious to most chemicals and is water resistant. The side wall inflation tubes, which are replaceable, are constructed of 28 oz. heavy duty polyester fabric with PVC coating and are totally contained within the sidewalls. Inflation by SCBA, air cylinder, portable blowers, foot pump, etc.



Part #	Description
MITDBI-1414	14' x 14' x 7" depth
MITDBI-1426	14' x 26' x 7" depth
MITDBI-1640	16' x 40' x 7" depth
MITDBI-1414-HD	14' x 14' x 7" depth
MITDBI-1426-HD	14' x 26' x 7" depth
MITDBI-1640-HD	16' x 40' x 7" depth

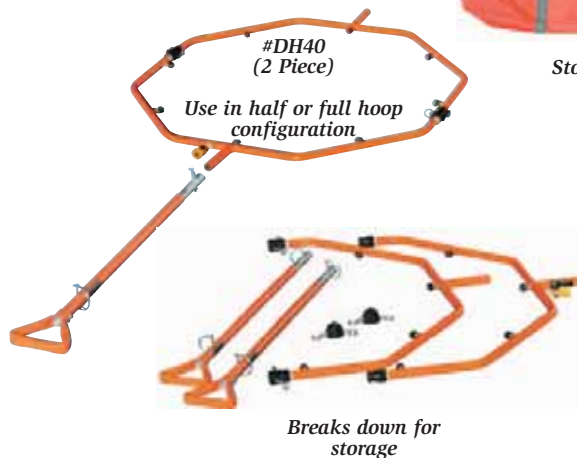


Decontamination

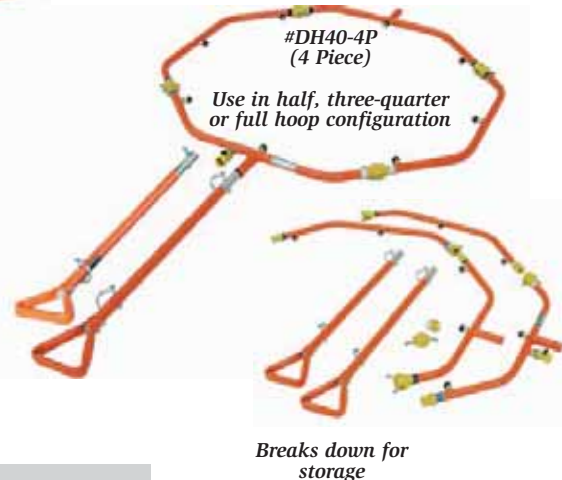
MITI Portable DeCon Spray Hoops Fast, Convenient Cost-Effective DeCon System

Durable, lightweight construction for rugged use, designed for quick set-up on site. Design concentrates water at the area being decontaminated, minimizing amount of water required for decontamination and disposal. Minimizes overspray for better control. Breaks down for easy storage and use for patient on backboard.

- Constructed of durable, lightweight, corrosion-free aluminum pipe & tube.
- Two-piece design provides for use in full or half hoop configuration.
- Features easy to use cam-loc couplings to join hoop halves.
- Doubles as portable emergency shower for factories.
- Fast, convenient, cost-effective decontamination.
- Can be quickly set-up for on-site application.
- Uses a standard 3/4" hose connection.
- Custom sizes available upon request.



Storage bag



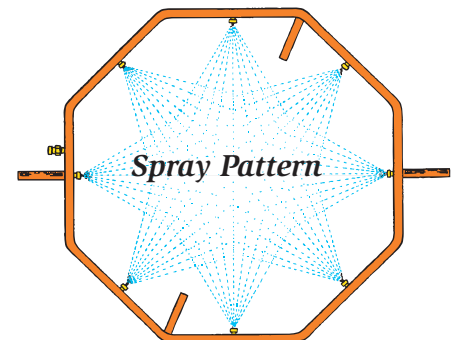
Part #	Description
MITDH40	Portable DeCon spray hoops, 2 piece, 45" OD x 39" ID with two 43" - 66" extendable handles
MITDH40-4P	Portable DeCon spray hoops, 4 piece, 45" OD x 39" ID with two 32" - 53" extendable handles
MITDHSB4	Storage bag, fits DH40/40H, 2 piece hoop, 4" x 32" x 52"
MITDHSB44	Storage bag, fits DH40/40-4PH, 4 piece hoop, 4" x 32" x 52"



Single person wash



Stationary shower configuration



Water Output

- 4.6 gpm @ 30 psi (.29 liters/sec @ 30 psi)
 - 4.8 gpm @ 40 psi (.30 liters/sec @ 40 psi)
- The above provides a very effective DeCon wash. Increase pressure for higher output. Custom configurations available upon request

Decontamination

Multi Manifold

Provides a means of quickly connecting standard 3/4" hose to hydrants, fire hoses, or fire apparatus. Constructed of corrosion-free aluminum pipe, fittings and 500 PSI certified brass 1/4 turn ball valves. Ideal for multiple hose connections. Used for many applications such as decontamination, overhaul, and wildland fires.



MM25-6

Benefits

- More hoses, fewer parts.
- Better water flow.
- Stable, strong construction.
- Valve working pressures certified 0-500 PSI.
- NH threaded rocker lug inlet couplings standard.
- Custom inlet threads and configurations available.

Part #	Description
MITMM15-3	1 1/2" (3.81cm) inlet/3 valve outlet, 7.5" w (19.05cm) x 4.5" h (11.43cm) x 12" l (30.48cm), 4.5 lbs. (2.04kg)
MITMM15-6	1 1/2" (3.81cm) inlet/6 valve outlet, 8.5" w (21.59cm) x 4.5" h (11.43cm) x 12" l (30.48cm), 5.2 lbs. (2.35kg)
MITMM23-3	2 1/2" (6.35cm) inlet/3 valve outlet, 7.5" w (19.05cm) x 4.5" h (11.43cm) x 13" l (33.02cm), 5.0 lbs. (2.27kg)
MITMM25-6	2 1/2" (6.35cm) inlet/6 valve outlet, 9.0" w (22.86cm) x 4.5" h (11.43cm) x 12" l (30.48cm), 6.5 lbs. (2.95kg)

NH threaded rocker lug INLET couplings are standard. Custom inlet threads and configurations available.

Portable High Pressure Soap Injector

Manually operated, this system injects fluid soaps or decontamination agents in a controlled and regulated manner and only when needed. The system's design enables the injector to overcome supply line pressures to 1250 psi, allowing the injector to be placed at a distance from the decontamination area, in the cool zone, for maximum safety and control—when and where you like! Users maintain superior control over costly siphon systems which must be located at or near the supply line hose end or decontamination device. Provides multiple use capability for diverse applications, including personnel, apparatus, equipment, barrel and building wash downs. Ideally suited for use with the MITI Portable DeCon Spray Hoop System as well as with other manufacturers' equipment.



FSI-1

Features

- Manually operated, high pressure foot pump.
- Two-and-a-half gallon reservoir with quick remove, gasketed lid.
- Cushioned feet for stability and prevention of liner punctures.
- In-line brass "T" connector with two 3/4" garden hose connectors.
- Large fluid reservoir lid for quick, easy filling and level checking.
- Serrated foot treadle for superior foot grip.
- Convenient carrying handle.
- Dripless quick connectors prevent leaks when stowed.
- Bright orange for high visibility.

Specifications

- Capacity: 2 gallons (757 liters)
- Supply line hose: 3/8" x 10' (.95cm x 304.8cm)
- Size: 12" x 12" x 12" (30.5cm x 30.5cm x 30.5cm)
- Overcome line pressures to 1250 lbs. (878.875kg/sq m)
- Weight: 30 lbs (empty) (13.6kgs)

Note: Specifications subject to change without notice

Portable Diaphragm Hand Pump

Provides quick emptying of decontamination pools, holding and drainage tanks, wells, etc. Removes high volumes of fluids in minutes. No need for electricity or combustion engines. Engineered and configured for quick setup and deployment. May be used at virtually any location. Components comprised of durable non-reactive materials. Ideal for use with both hazardous and non-hazardous materials.

15 GPM Diaphragm Hand Pump (56.78 LPM)

Includes female Nyglass quick couplers & mounting board

- 10 ft. (3.05m) 1 1/2" inlet hose with male Nyglass quick couplers and Nitrile strainer attached
- 20 ft. (6.09m) 1 1/2" outlet hose with male Nyglass quick couplers attached



P-15



10' 1 1/2" inlet hose



20' 1 1/2" outlet hose

Part #	Description
MITMP-15	15 GPM pump only, 4 lbs. (1.81 kg)
MITPP-151H	10' x 1 1/2" inlet hose assembly, 4 lbs. (1.81 kg)
MITPP-150H	20' x 1 1/2" outlet hose assembly, 8.25 lbs. (3.741 kg)

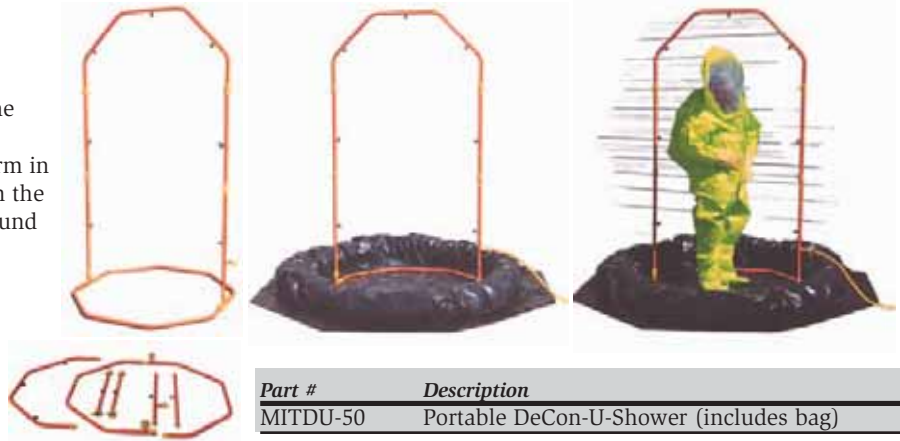
Decontamination

MITI DeCon-U-Shower

The Portable DeCon-U-Shower is specifically designed to deploy quickly and to minimize the amount of waste water created during the decontamination process. The system is uniform in design and can be used independently, or with the MITI DeCon Hoop™, Pools and Secondary Ground Pad/Berm Systems.

Specifications:

- Output: 6.33 GPM @ 30 PSI / 6.6 GPM @ 40 PSI
- Weight: 14 lbs.
- Size: Assembled 52" x 52" x 7'-6" Height



Part #	Description
MITDU-50	Portable DeCon-U-Shower (includes bag)

MITI Portable DeCon Waste Pool

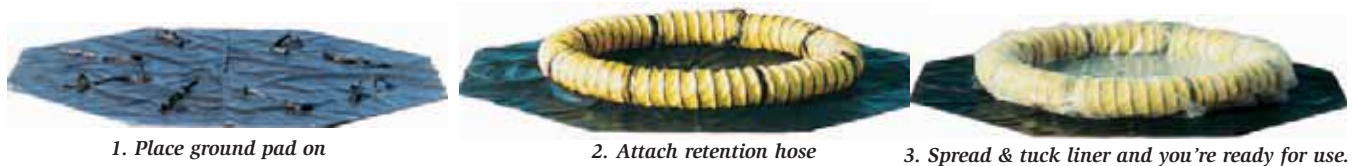
Designed to be used in conjunction with MITI DeCon DH40 series hoops. Quick set up for on-site use. The pool is reusable, the liner disposable. Provides cost-effective waste water retention and containment. Unique design compresses for stowage and requires no air or water to inflate. MITI's Portable DeCon Pool System incorporates a durable and removable protective ground pad with permanently attached belts and quick couplers. This ground pad design enables the user to quickly attach the pool's waste water retention ring. Once the ring is in place, the pool's disposable polyethylene liner is quickly and easily laid over the ring and tucked into place for use.

Part #	Description
MITDP-6	DeCon Pool 62" ID (157.48cm) x 78" OD (198.12cm) 85 gal. (322 litres) capacity 18 lbs. (8.18kg) includes ground pad, retention hose and storage canister
MITDP-60	Retention hose storage canister



DP-6 (Actual use)

DPC-60 Retention hose storage canister



1. Place ground pad on

2. Attach retention hose

3. Spread & tuck liner and you're ready for use.

MITI Totally Enclosed DeCon Waste Tank

Ideal for light storage situations and first response applications. Constructed of 28 oz. PVC Coated Rip-Stop Woven Fabric. Provides for superior durability and long service life. Large filler opening with 4" cap. Floating filler ring collar keeps filler opening above fluid level at all times during filling. Outlet is configured with a 3" NPT FM thread with cap plug provided. Custom outlet configurations are available with special order.



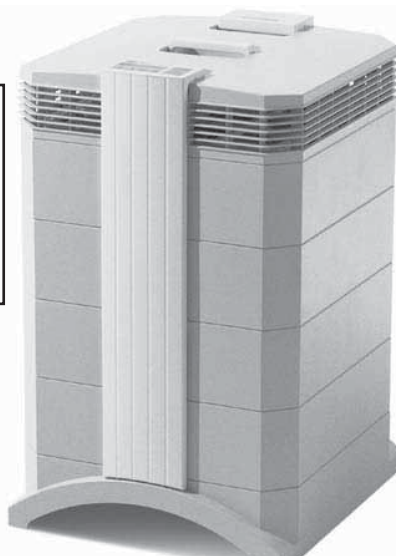
Part #	Description
MITTEWT-110	110 Gal/400 Liters, 3' x 5' x 12"H
MITTEWT-150	150 Gal/570 Liters, 4' x 5' x 12"H
MITTEWT-300	300 Gal/1140 Liters, 4' x 6' x 24"H
MITTEWT-600	600 Gal/2300 Liters, 5' x 8' x 24"H
MITTEWT-1200	1200 Gal/4500 Liters, 6' x 12'6" x 26"H
MITTEWT-1800	1800 Gal/6800 Liters, 7' x 13'8" x 30"H
MITTEWT-2500	2500 Gal/9000 Liters, 7' x 18'2" x 30"H

NOTE: The above tanks and special order larger tanks, are ideal for potable or non potable water storage situations such as disaster, flood, fires, etc. These tanks can be stowed in a tight space/compartment and take the place of bulky hard walled tanks. They are designed to be transported by trucks or trailers.



IQAir® Air Cleaning Devices with EN 1822 Certification

With a solid 40-year history in providing clean air solutions, IQAir has the experience and technological capabilities to produce air cleaning devices of the highest caliber for hospitals, laboratories and medical device manufacturers. IQAir also recognizes the need for professional grade products for people in their homes and offices, and uses the same principles for all customers.



IQAir HealthPro

While conventional HEPA air cleaners on the market today don't typically produce 99.97% clean air at 0.3 microns, this kind of efficiency is possible. The IQAir HealthPro takes the official 99.97% HEPA filter efficiency and applies it not only to the filter, but to the entire air cleaner. This is referred to as HyperHEPA performance and relies on four critical elements:

- High-efficiency pre-filter
- Cleanroom-grade HyperHEPA filter (U.S. patent)
- 3-D seal creates an airtight device (U.S. patent)
- Fan positioned before the HyperHEPA filter

IQAir GC Series

The IQAir GC Series is a specialized line of advanced air cleaning devices that meets almost any gas phase removal need in residential, commercial or medical environments. Since different gaseous contaminants can only be effectively removed with specialized gas phase media, the IQAir GC series is available in a range of special gas phase media configurations.

Part #	Description
IQAHEALTHPRO +	HealthPro™ Series
IQAGC-VOC	VOC GC for the control of volatile organic compounds, odors and particulates.
IQACC-AM	Ammonia GC for the control of ammonia, amines, ammonia-based odors and particulates.
IQAGC	Chemisorber GC for the control of formaldehyde, hydrogen sulfide, sulfur dioxide and particulates.
IQAGC-MG	Multigas GC for the control of gaseous compounds, odors and particulates.

AIR FILTRATION DEVICES

HEPA-AIRE® # H500V

At just 42 lbs., including filters, the H500V is our most lightweight and portable model. It is ideally suited for use in confined spaces. This "mighty mite" is designed to produce up to 450 cfm, yet draws only about 1.25 operating amps and can be easily hand-carried to the job site.

- Variable speed controller (100-450 cfm)
- Filter change indicator light
- Maintenance-free motorized impeller
- Internally protected, 99.97% certified HEPA filter
- Recessed control panel
- Top carrying handle
- Plastic feet protect surfaces
- Uses 8" flex duct

**ABATEMENT
TECHNOLOGIES®**



H500V

Part #	Description
ABTH500V	HEPA-AIRE® 100-450 CFM, HEPA-air machine

MINIFORCE™ Negative Pressure System

The Mini-250 is a negative air machine that is designed for small containments and projects with difficult or limited access. MiniForce goes where the big machines can't. It's portability and airflow capacity makes it ideal for remediation onboard ships, in crawl spaces, hotel rooms, residences and many other jobs. Save yourself time and trouble.

- Air flow: high speed -425 CFM / low speed -350 CFM
- Filter: HEPA 99.97% @ .3 microns, size 12" x 12" x 12"
- Prefilter: 35% efficiency, 2-ply poly pad
- Housing: Aluminum, natural finish, size 13" x 13" x 26 1/2"
- Controls: 2-speed switch, pressure gauge 0-3" WC
- Motor: 2-speed, 115Vac/3.2 amps, thermal protected
- Weight: 40 lbs.
- Optional accessories: intake manifold for connecting flex duct



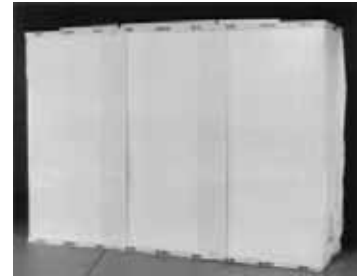
Part #	Description
ODI250	MINIFORCE™ 350-450 CFM Negative Air Machine

Decontamination

Dispos-A-Con™ Decontamination System

Dispos-A-Con™ 9000 is a low-cost, lightweight, disposable decon that facilitates decontamination. It is remarkably strong and sturdy. Entrances and exits are triple-flapped 6-mil poly and the walls are solid double-wrapped 6-mil poly. The shower room has an internal boot extending 12" up on each side to insure leak proof operation.

- Erects in 15 minutes
- Meets EPA & OSHA guidelines
- Rugged construction
- Dispose in 5 minutes
- Reusable hardware



Mfg. & Sales

Clean & Dirty Room

Disposable "Extended Use" Decontamination Chambers

AR Mfg's 6000 CX with plastic (Coroplast®) tops and bottoms extends the life of the disposable clean and dirty rooms.

Features:

- Each room 30" x 36" x 81"
- Perfect fit with most aluminum/metal showers
- Triple flap entrance and exit
- 1" PVC pole set included
- Assembles in less than 5 minutes without tools
- Larger room sizes available (4' x 4' x 81")
- 6 mil white poly double wrapped
- Ideal for any restoration project
- Packaged set (two rooms per carton)
- UPS shippable-weight 46 lbs.
- Designed for both indoors & outdoors



Klean Pop™

Klean Pop was developed in response to a growing need for an easy-to-use, quality decontamination shower at a good value. Klean Pop assembles quickly and easily, and has quality components with minimal joints for lasting durability. Klean Pop collapses into its base, making transportation and storage of the unit easy.

- Rugged aluminum construction
- Mildew resistant shower curtain
- Wheels on base for easy transportation
- Removable floor
- Lightweight
- Modular poles fit into base



Quick Erect DeCon/Emergency Shelters

The Portable Quick Erect Shelter is specifically designed for quick setup and deployment in virtually any geographical location. It is well suited for most environmental conditions. The Quick Erect Shelter can be deployed and used for virtually any type of application and need. The system is extremely cost effective, durable and light weight. Sets up in 20-30 minutes with no tools or air supply required. Comes complete with storage bag, slip fit frame, and white 12 oz. fire retardant rip-stop material, which has a 690 PSI burst strength and is ultra violet and mildew resistant. The translucent qualities of the skin material provides for a bright sunlit interior. Frame is constructed of 14 gauge galvanized steel tubing with slip-fit ends which provides quick erection and disassembly for stowage. Unique ratchet skin tie down system eliminates stress points and keeps the cover tight, lengthening the life to the skin.



Part #	Description
MITQE1014	10' x 14' 12 oz. White Rip-Stop Fire Retardant Material with frame/cover/hardware/2 vents/1 window/1 door
MITQE1020	10' x 20' 12 oz. White Rip-Stop Fire Retardant Material with frame/cover/hardware/2 vents/1 window/1 door
MITQE1025	10' x 25' 12 oz. White Rip-Stop Fire Retardant Material with frame/cover/hardware/2 vents/1 window/1 door

Decontamination

RMC MEDICAL



EMS/Hospital Disposable Decon System

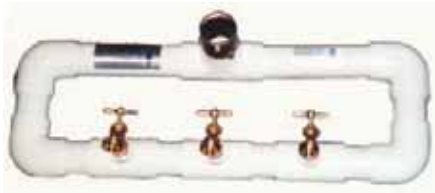
#PDS-5000E /#PDS-5000H

Portable, disposable patient decon system designed to be utilized with a backboard. Resistant to chemicals, pre-assembled with PVC drain/hose and 5 gal. collection container. Disposal bag included.

Hospital Decontamination Tabletop

#PDS-2000

For the emergency medical treatment and decontamination of a contaminated/injured patient. Lightweight, durable 100% fiberglass construction. This is an impermeable, washable, reusable unit. Included with the tabletop are backboard, flexible drain hose, locking straps, two 15 gal. waste collection containers, spray nozzle and wall mounting bracket. (gurney not included)



Decon Manifold System

#HDS-6016

Designed as a reducing mechanism to be used in conjunction with a Hazmat Decon Shower when the source of water is a fire apparatus. The Manifold reduces a 1 1/2" fire hose down to a 3/4" outlet spigot. A garden hose can then be run from the Manifold System to the Hazmat Decon Shower.

Hazmat Fluid Transfer Pump

#HTP-6030

A chemically resistant hand operated, self-priming pump that is designed to transfer hazardous material from our Hazmat Decon Pool into a recovery drum. Constructed of polypropylene body and nitrile diaphragm, the 10 GPM pump is mounted on a 6" x 18" polyethylene pump plate and comes complete with 12 feet of chemically resistant wire reinforced hose. The pump parts including the diaphragm can be replaced individually if required. Not recommended for use with gasoline.



Hazmat Decon Pool

HDP-6000

Lightweight, portable, disposable containment basin for collecting the runoff from a decontamination shower.

(12 mil polyethylene pre-attached liner, measures 60" x 60" x 12" set-up, 60" x 21" x 3" stored)

Part #	Description
RMCPDS-5000E	EMS Disposable Decon System
RMCPDS-5000H	Hospital Disposable Decon System
RMCPDS-2000	Hospital Decontamination Tabletop
RMCHDS-6016	Decon Manifold System
RMCHTP-6030	Hazmat Fluid Transfer Pump
RMCHDP-6000	Hazmat Decon Pool

Decontamination

Mass-Decontamination Kits

Pre-Decon Patient Kit

The Pre-Decon Patient Kit is designed to give responders that are administering mass-decontamination a systematic way of getting people ready for the process. It is also designed to give the patients proper privacy while preparing for the decon procedure. Clothing and personal effects get properly bagged and tagged for accurate identification.

Packaged in a clear bag this kit contains:

- Disposable booties
- Numbered wristbands (set of 3)
- Disposable opaque garment
- 33 gallon biohazard bag
- 60 gallon black plastic bag
- Instructions in English and Spanish



1. As the person reaches the mass-decon area, a large black trash bag is donned having the person push their head through the sealed end of the bag. This gives each person the privacy to disrobe under the bag in a public setting. Disposable booties and opaque disposable garment are then donned, discarding the black bag.



2. The person then takes the first part of the numbered wrist band and affixes around his/her wrist.



3. Personal effects are put in the clear bag, and the second wrist band is affixed to it, identifying the person's belongings. (the 3 pre-printed wrist bands in the kit are all numbered with a number only for that person)



4. Contaminated clothing is put into the red biohazard bag and the third wrist band is attached to the bag, thus identifying that person's clothing. The person is now ready for decontamination process knowing that their personal effects and clothing have been properly labeled for correct identification and reclamation.

Post-Decon Patient Kit

This kit is given to the person emerging from the decontamination area.

Packaged in a clear bag this kit contains:

- Disposable towels
- Disposable opaque garment
- Space blanket
- Poncho



Part #	Description
ABX-PRE-DK	Pre-Decon Patient Kit
ABX-POST-DK	Post-Decon Patient Kit



Decontamination

Biohazard Waste Container

Justrite's Biohazard Waste Containers meet OSHA 29 CFR 1910.1030 for the segregation of infectious waste. They may be used to store contaminated laundry as well as other regulated waste (not to be used for sharps).

Sturdy steel can features leakproof construction with foot operated self closing lid. Simple and safe foot pedal operation opens the container cover automatically. Release of pedal then closes can cover to reduce the risk of contamination. A biohazard bag is held securely around the circumference of the can top.



Part #	Description
JUS05910	Justrite, Biohazard white waste can with foot operated cover, 6 gallon
JUS05930	Justrite, Biohazard white waste can with foot operated cover, 10 gallon

Biohazardous Waste Cans

Polyethylene Biohazardous Waste Cans advise workers of potential biohazards and meet OSHA requirements for exposures to blood borne pathogens.

Compliance: 29 CFR 1910.1030



Part #	Description
EGL947BIO	Eagle, Biohazardous Waste Cans, Polyethylene, 14 gallons
EGL945BIO	Eagle, Biohazardous Waste Cans, Polyethylene, 10 gallons
EGL943BIO	Eagle, Biohazardous Waste Cans, Polyethylene, 6 gallons

Biohazard Bag

Red color with clear black print for easy identification and safety.



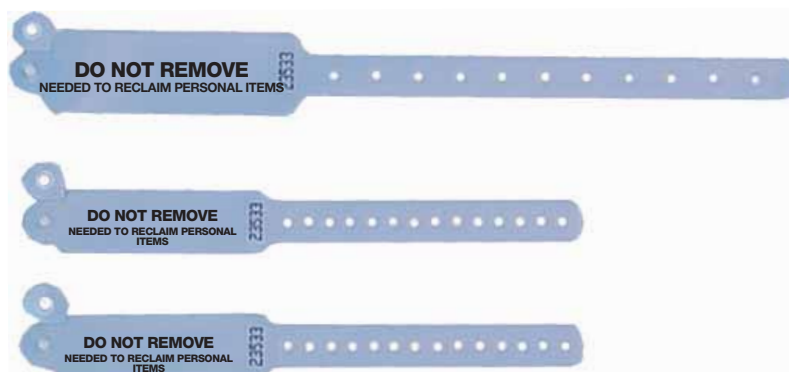
LAGJAGIW3339R

Part #	Description	Size
LAGJAGIW3339R	Bio-hazard - 33 gallon red, 1.3 mil thickness, 33"x39"	150/case

Identification Wrist Bands

Wristbands come numbered in groups of three for use in identification purposes in a mass-decontamination setting. Person wears first band. Second band goes on clothing bag, third on valuables bag. This is an extremely accurate way of identification. Can only be removed by cutting off the band.

Part #	Description
PRD-320C-11-PDK	Tri Band custom wrist bands, 100 sets/bx



Bloodborne Pathogens Response Kit

This kit contains the items needed to clean up blood and body fluid spills including gown, gloves, shoe covers and face mask with eye shield. This response has 16 items in total to give you the items you need when encountering these spills.

Part #	Description
ABX-018008-3580	Blood borne Pathogens Response Kit
ABX-127010	Blood borne Pathogens Response Kit Refill



Decontamination

The Bio-Wipe Bag™

The Bio-Wipe Bag™ is a patented opaque plastic bag on which the outside surface incorporates an absorbent paper/gauze material that can be used to wipe or pick up infectious or contaminated spills when protective gloves are worn. The Bio-Wipe Bag™ has a convenient two-thumbed inner mitt, so either a right or left-handed person can use it with ease. The Bio-Wipe Bag™ helps protect against the transmission of possible infectious agents to the user at the site of the required cleanup. When the bag is turned inside out, the adhesive strip can be removed and the top of the bag rolled over; hazard can be sealed inside the bag. The Bio-Wipe Bag™ provides temporary containment of infectious waste for proper disposal into an approved OSHA and/or ASHP container.

- Bag size is 11 1/2" x 12" (10 Bags per Box/25 Bags per Roll), Different bag sizes available, check with your PowerPlus representative.
- Absorbent pad bonded to one side: germicides and disinfectants may be applied.
- Absorbent capacity: Approximately 1/2 pint.
- Permanently adhesive sealed closure for containment and proper disposal.
- Two-thumbed mitt on interior of bag for either right- or left-handed applications.
- Mitt provides easy maneuverability.
- Helps comply with OSHA Standard 29 CFR 1910.1030 for Personal Protective Equipment.



1 *Open the Bio-Wipe Bag and insert already gloved hand (either right or left) into mitt.*



3 *Turn bag and absorbed substance inside out to contain spill.*



2 *Wipe up the spilled substance with absorbent side of The Bio-Wipe Bag.*



4 *Peel off adhesive strip, fold top of bag over, seal and dispose of in a properly labeled Biohazard container.*

The One & Done Safety Spill Kit™

A convenient wipe and containment bag all-in-one. The One & Done Safety Spill Kit™ adds up to convenience, additional care and caution, and easy containment in cleaning up potentially hazardous or infectious spills.

- Nitrile Glove, Anti-Microbial Hand Wipe.
- One Surface Disinfectant Wipe.
- Large Towelette, 2 oz. bottle Cavicide.
- 12" x 9" Ziploc bag.
- Also available 2 oz. bottle of 0.5% liquid bleach or 2 oz. bottle of dry granular bleach 0.5% when activated by water.



Part #	Description
DTLR-100	The Bio-Wipe Bag™, Red, 11.5" x 12", 10/cs
DTLB-100	The Bio-Wipe Bag™, Blue, 11.5" x 12", 10/cs
DTLOD-1	One & Done Safety Spill Kit™, (1) Bio-Wipe Bag™ red, (1) Nitrile glove pair, (1) 2oz. Cavicide surface disinfectant spray, (1) surface disinfectant packet, (1) antimicrobial hand wipe packet, (1) paper towelette, (1) instruction sheet in English and Spanish.
DTLOD-10	One & Done Safety Spill Kit™, 1 carton with 10 kits
DTLOD-50	One & Done Safety Spill Kit™, 1 case with 50 kits

Decontamination

ZIPWALL

Zipwall Kits can be quickly and easily deployed creating a decontamination room that meets your specifications. Zipwall can be used to create separate rooms for clean and contaminated sections. When used with black poly a room can be created for disrobing prior to the decon process or getting dressed after decon. The options are limitless for use in emergency situations.

ZipWall™ Kits

Special kits for use in areas with high ceilings. Each kit contains 2 jacks and 2 poles that extend to a maximum height of 20 feet. The poles are telescopic with four 5-foot sections. When used with high ceilings, they offer considerable cost savings by eliminating scaffolding or hydraulic lifts. Of course, they can also be used for conventional 7½–8 foot ceilings or any other height up to 20 feet.

ZipWall™ Carrying Case

Designed to hold six standard ZipWall poles (12 foot maximum length) with the jacks attached. It can also carry six special ZipWall poles (20 foot maximum length) with the jacks unattached. It is made of Denier Codura Nylon, and was developed to help ZipWall users keep their poles and jacks neat and organized.

Part #	Description	Size
ZIPWALL-12	ZipWall kit, 2 jacks, 2 poles	12'
ZIPWALL-20	ZipWall kit, 2 jacks, 2 poles	20'
ZIPGD10	Zipwall GripDisk	
ZIPWALLCASE	ZipWall Carrying Case	
ZIPZWJ1	ZipWall Jack with Plate	
ZIP7	ZipWall Zipper	



Zipwall™ GripDisk

For use when the work site floor has a slick surface such as highly polished wood or marble. The rubberized tip of the pole pushing the plastic sheeting to the floor has a tendency to slide. When placing the GripDisk on the floor surface, the pole and the plastic sheeting will remain in place.



ZipWall™ Jack with Plate

Available for purchase separately.



ZipWall™ Self-Adhesive Zippers

Create a custom-sized opening in any job-site barrier. Installs in minutes and attaches to any plastic sheeting. An easy and economical way to create a temporary doorway. To attach, just pull the paper backing off the zipper and press firmly into place. Then open the zipper and slit the plastic with a utility knife. Now close and open the zipper door to enter or exit.



PowerPlus Poly SHEETING AND DUCT TAPE



PowerPlus Duct Tapes

Part #	Description
PLY320C	Poly sheeting, clear, 3 Mil, 20' x 100', roll
PLY408C	Poly sheeting, clear, 4 Mil, 8' x 100', roll
PLY410C	Poly sheeting, clear, 4 Mil, 10' x 100', roll
PLY412C	Poly sheeting, clear, 4 Mil, 12' x 100', roll
PLY420B	Poly sheeting, black, 4 Mil, 20' x 100', roll
PLY420C	Poly sheeting, clear, 4 Mil, 20' x 100', roll
PLY420FR	Poly sheeting, flame retardant, 4 Mil, 20' x 100', roll
PLY610C	Poly sheeting, clear, 6 Mil, 10' x 100', roll
PLY610FR	Poly sheeting, flame retardant, 6 Mil, 10' x 100', roll
PLY612C	Poly sheeting, clear, 6 Mil, 12' x 100', roll
PLY612FR	Poly sheeting, flame retardant, 6 Mil, 12' x 100', roll
PLY620B	Poly sheeting, black, 6 Mil, 20' x 100', roll
PLY620C	Poly sheeting, clear, 6 Mil, 20' x 100', roll
PLY620FR	Poly sheeting, flame retardant, 6 Mil, 20' x 100', roll



BTCC

BTPDMR

Part #	Description
BTPC	Barrier tape, CAUTION, yellow, 3" x 1000', roll
BTCC	Barrier tape, CAUTION CUIDADO, yellow, 3" x 1000', roll
BTPD	Barrier tape, DANGER, red, 3" x 1000', roll
BTPDDNE	Barrier tape, DANGER DO NOT ENTER, red, 3" x 1000', roll
TYC224B	PowerPlus, duct tape, 2", blue, 24/cs
TYC324B	PowerPlus, duct tape, 3", blue, 16/cs
TYC214S	PowerPlus, duct tape, 2", silver, 24/cs
TYC214S-3	PowerPlus, duct tape, 3", silver, 16/cs

Decontamination



Pneumatic and Electric Dust Ignition Proof Vacuum Cleaners

Available in both pneumatic and electric versions, these industrial vacuum cleaners safely collect fine powders, petrochemicals and other liquids and debris. Designed with a non-sparking, stainless steel, 19- or 30-gallon tank, the Explosion Proof Vacuums can be used in Class I- Group D- and Class II - Groups F- and G- hazardous locations. The Explosion Proof Vacuums require special non-sparking, conductive accessories. Options include a special overhead cleaning tool, aluminum wand, extension wand, floor tools, hose, dust brush and crevice nozzle.

<i>Part #</i>	<i>Description</i>
NIL01799230	Electric Dust Ignition Proof Vacuum Cleaner
NIL01799330	Pneumatic Dust Ignition Proof Vacuum Cleaner

SS Mercury Vacuum

The Nilfisk SS Mercury vacuum recovers liquid mercury spills and granular mercury compounds effectively, while adsorbing mercury vapors in the process. The 31 lb. special carbon charge, in a handy cartridge, has a 5-year normal service life before replacement. The optional Microfilter accessory protects the motor and acts as a barrier to even bacteria size particles. Optional HEPA or ULPA filters retain up to 99.999% of all mercury compound dust and other particulate contaminants down to 0.12 microns in size.

<i>Part #</i>	<i>Description</i>
NIL01796400	SS Mercury Vacuum



VT Mercury Vacuum

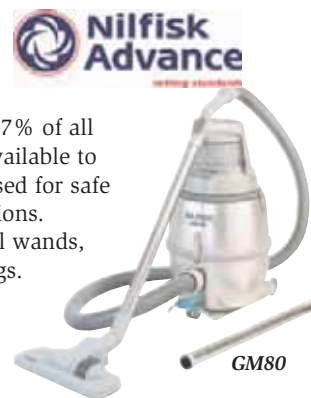
Created for larger spills, the VT Mercury Vacuum is specifically designed to safely collect and retain liquid mercury spills and granular compounds while eliminating toxic vapors. Four stages of filtration allow the VT Mercury Vacuum to meet OSHA standards for inorganic mercury. Internal HEPA filter captures 99.97% of particles down to 0.3 microns in size. Activated carbon granules in patented honeycomb layers provide the most complete contact, and longest dwell-time, between carbon and mercury vapors.

<i>Part #</i>	<i>Description</i>
NIL01797332	VT Mercury Vacuum

Decontamination

GM80 Dry HEPA Vacuum

The versatile GM80 safely collects lead, asbestos, silica and other hazardous dusts and fine powders. A 4-stage, graduated filtration system includes a 2¹/₄-gallon paper bag, cotton main filter, AES polycomposite microfilter and HEPA exhaust filter. Equipped with a HEPA filter, the GM80 retains 99.97% of all particles to 0.3 microns in size. For ultra fine filtration, an ULPA (Ultra Low Penetration Air) filter is available to capture 99.999% of particles to 0.12 microns. Ideal for cleanroom environments. Interference suppressed for safe use around electronic equipment, the lightweight GM80 can be used in portable or stationary applications. Standard package includes: detachable trolley, 6'6" plastic hose, combination nozzle, two straight steel wands, 3" round dust brush, crevice cone, 5" upholstery nozzle, 30' power cord and package of five paper bags. Optional variable speed control is available to adjust the vacuum's suction power from 0 to 100% power so it may be used with glovebags.



HEPA BACK Vacuum

The HEPA BACK Vacuum rests comfortably on the hips of the operator. Thanks to its unique articulated design, it flexes with the spine as the operator bends down or moves from side to side. The motor is located to correspond to the body's own center of gravity. This reduces strain, meaning fewer lost days due to sickness or injury.

The revolutionary ergonomic design from Nilfisk Advance now enables cleaning staff to carry out their tasks in comfort. The lightness of the HEPA BACK Vacuum increases operator mobility and makes it easier to clean confined or cluttered areas, such as cinemas or airplane interiors, and is ideal for daily office cleaning.

- Robust and reliable construction ensures long service.
- Belt design ensures even weight distribution.
- Motor located in lower half of the HEPA BACK Vacuum, ensuring a low center of gravity.
- Low exhaust air velocity - minimum disturbance of light materials in the vicinity.
- Hose coupling adjustable for left or right-handed use.
- Electro nozzle outlet for deep cleaning of carpets.
- HEPA filter available—ideal for dust free vacuuming.



HEPA BACK Vacuum

VT60 Wet/Dry HEPA Vacuum

The latest in filtration technology, the VT60 requires no filter change between wet and dry collection. A graduated filtration system includes main filter tubes that are water, mildew, rot and corrosion-resistant. They require minimal maintenance and may be cleaned by simply wiping them off. Three collection options include direct collection into the 15 gallon vacuum tank, polyliner, or 5-gallon sealable pail. The VT60's motor can be adapted to sit on a 55-gallon drum to increase collection capacity. Suitable for applications requiring bulk, nuisance or hazardous material cleanup. A factory installed cleanroom option is available, enabling the VT60 to be taken into a Class 100 cleanroom environment. An air-powered model is also available. Standard package includes: 10' plastic or neoprene hose, double curved aluminum wand, 14" wet floor nozzle, 3" aluminum dust brush, 11" plastic crevice tool and package of 25 polyliners.



GD930-HSP

The GD930-HSP with HEPA filtration allows total cleaning where hazardous dusts are present. The superior design of this Euroclean 4-gallon canister vacuum makes professional removal of dust and dirt easier to handle. Lightweight (only 17.5 lbs.) with convenient carrying handle plus two large wheels and one swivel caster on the base makes the GD930-HSP easily portable and minimizes operator fatigue.

- 1.3 hp, 2-stage, flow-thru motor.
- Foot operated on/off switch.
- Standard equipment includes HEPA filter, 6 ft. suction hose, dual mode floor tool, telescopic wand, combination brush/nozzle, and crevice tool.
- Optional carrying harness allows use as a backpack vacuum.

* Shown with optional EC Powerhead



GD930-HSP



Part #	Description
NILGM80	Dry HEPA Vacuum
NIL01796534	HEPA Back Vacuum
NIL01799530	VT60 Wet/Dry HEPA Vacuum, plastic hose, electric
NIL01799538	VT60 Wet/Dry HEPA Vacuum, neoprene hose, electric
NIL01799630	Plastic hose, pneumatic
NIL01799638	Neoprene hose, pneumatic
EUR9055314030	GD930-HSP Vacuum
EUR56649-014	EC Powerhead

Decontamination

PULLMAN-HOLT

45ASB Dry Vacuum

Equipped with a powerful 1.5 horsepower motor and an extra large capacity HEPA filter system, the model 45 offers the air flow efficiency of vacuums costing three times as much. The Model 45 is manufactured to the same high standards as our large industrial HEPA vacuums, so it will withstand years of hard use. Tool kit included.

Features:

- High quality, 1.5 horsepower bypass motor for fast, superior pick up and long life.
- High efficiency “drop-in” style HEPA filter individually certified to have a minimum efficiency of 99.97% at .3 microns (based on D.O.P. tests).
- With Pullman-Holt’s exclusive “never-clog” Dacron bag for superior pre-filtration.
- Blow molded poly canister with low center of gravity design prevents tipping.
- Positive locking, full swivel hose connection system for easy handling and operation.
- Low noise allows for use in sound sensitive areas.
- 25 foot power cord.



86ASB54C Wet/Dry Vacuum

The Model 86ASB is designed to work in tight areas, on scaffolding or any job site where a rugged steel compact vacuum is required. Easy to carry and transport. Can be converted to dry only. Includes 25 foot power cord.

102ASB12P Wet/Dry Vacuum

This powerful 2 horsepower, 2 stage, long-life motor makes this HEPA vacuum a true “work horse” for heavy duty service in professional abatement work. The 102ASB offers superior vacuum recovery, ranging from dry, light particulates, to wet, heavy debris. 102ASB is a heavy duty poly tank vacuum. Pullman-Holt HEPA vacuums exceed all EPA and OSHA filtration standards.

Features:

- High Efficiency “drop-in” style HEPA filter individually certified to have a minimum efficiency of 99.99% at .3 microns (based on hot D.O.P. tests).
- Polyester prefilter is located on the bottom of the HEPA filter, and is held firmly in place with Velcro fasteners.
- Air seal gasket between the motor head and tanks forms a positive lock fit.
- 25 foot power cord.
- U.L. listed and CSA approved.
- A Dacron filter bag covers the entire spacer sleeve and HEPA filter for three-stage filtration. Dacron materials sheds dust to maintain vacuum efficiency.

Part #	Description
PULB160421	Pullman Holt 102ASB Wet/Dry 12 gallon vacuum
PULB160007	Paper collection bag for 30ASB
PULB160009	HEPA filter for 102ASB
PULB700017	Prefilter for 102ASB
PULB700306	Spacer sleeve for 102ASB
PULB525410	Velcro kit for 102ASB and 86ASB
PULB000517	Dacron bag for all Pullman Holt models shown
PULB524253	Paper collection bag for 102ASB
PULB160420	Pullman Holt 86ASB Wet/Dry 5 gallon vacuum
PULB526520	HEPA filter for 86ASB
PULB700408	Paper collection bag for 86ASB and 45ASB
PULB702341	Pullman Holt 45ASB Dry only vacuum
PULB702340	HEPA filter for 45ASB
PULB702343	Retainer for dacron bag for 45ASB
PULB160000	Pullman Holt 30ASB Dry vacuum
PULB000394	Pullman Holt 2” dusting brush
PULB527094	Pullman Holt 14” squeegee tool
PULB527095	Pullman Holt 14” floor tool
PULB527302	Prefilter for 86ASB
PULB700000	HEPA filter for 30ASB
PULB701615	Pullman Holt 11” crevice tool

30ASB Dry Vacuum

This asbestos vacuum is ideal for elevated and hard-to-reach areas. Tool kit included.

Features:

- Air seal gasket between the motor head and tanks forms a positive lock fit
- High efficiency “drop-in” style HEPA filter individually certified to have a minimum efficiency of 99.97% at .3 microns (based on D.O.P. tests)
- 50 foot power cord

ATRIX INTERNATIONAL, INC.

Omega Vac Abatement

The *Omega Vac Abatement* features a self-contained filtration system that captures hazardous particles as small as 0.12 microns. It includes two filter plugs, disposable bag and tie to prevent particles from escaping into the air or getting on hands and clothes when disposing of filter. Plus, its 6’ clear hose allows the operator to visually check for any remaining particles in the hose.

The *Omega Vac Abatement* is made from a high-impact styrene construction for durability and long life.

The lightweight and portable *Omega Vac Abatement* is ideal for glove bags, ladders or other hard-to-reach applications. It comes complete with a handy shoulder strap and accessories which store conveniently in the case cover.



ATRVACOMEGA

The SURVIVAIR® Quick2000® Escape Hood - One Size Saves All* Safety equipment that is far from standard.

Introducing the next step in personal safety – the SURVIVAIR Quick2000 Escape Hood Respirator, which provides clean, breathable, filtered air in the event of a nuclear, chemical warfare agent or biological disaster.

- Passes the toughest, most rigorous testing specifications: Exceeds the rigorous tests conducted by the U.S. Army Soldier, Biological and Chemical Command (SBCCOM).
- Universal fit: Facial hair, ponytails, Afros, or sideburns will not reduce the level of protection. Mouthpiece seal is unaffected by face size or shape.
- Protection you can count on within seconds: The Quick2000 can be donned and functioning within 10 seconds.



Safety features that are far from standard.

An extra large visor reduces the chances of claustrophobia. The visor has a permanent anti-fog coating, providing the wearer with a wide, clear outward view. The hood is oversized which allows for a full head of hair, facial hair and eyeglasses. The unique mouthpiece design delivers protection factors significantly higher than traditional half mask/neck seal designs – Protection Factor (PF) 50,000.* The high-capacity filter cartridge is packed with ASZM-TEDA carbon. A HEPA filter is sealed to the front of the cartridge. This provides escape protection from most chem-bio warfare agents. There is a dual-zone protection system: A primary gas-tight seal is formed between the user's lips and mouthpiece and a secondary seal is formed within the hood, providing clean air and protection beyond a doubt. The nose clip is externally actuated and is designed to prevent nasal breathing during use, ensuring that the seal is maintained at the mouth. The elastomeric neck dam seals off the external environment from inside the hood and adapts to neck sizes from 10"-22". The mouthpiece can be released to speak loudly and clearly. The Quick2000 snaps to any belt to be worn on the waist for instant access/protection. Optional hard case is available. The Quick2000 training device and a video (both sold separately) are available to adequately prepare you in case of an emergency. This is the first escape hood to meet and exceed the CBEHR specification created by SBCCOM.

Part #	Description
SVA600800	Survivair® Quick2000™ Escape Hood

FEDERAL AGENCIES USING THE Quick2000 Escape Hood:

Defense Intelligence Agency	U.S. Department of Energy	FEMA	U.S. District Court
National Institute of Health	U.S. Marine Corps	U.S. Air Force U.S. Army	U.S. Marshal's Service
U.S. Capitol Police	U.S. Navy	U.S. Customs Service	U.S. Supreme Court Police

*Note: The SURVIVAIR Quick2000 Escape Hood Respirator will reduce but not eliminate the inhalation of contaminants.

THIRD PARTY TEST RESULTS

Chemical Warfare Agent	Concentration & Breakthrough	Chemical Warfare Agent	Concentration & Breakthrough	Notes:
Cyanogen	System Testing ^{1,2} :	Sarin (GB)	System Testing ³ :	1. System is defined as Hood + Cartridge 2. System testing conducted by U.S. Army SBCCOM (Edgewood Arsenal) 3. Sarin and Mustard system test data owned by U.S. Army SBCCOM/TSWG 4. Flow rate (breathing): 50 +/- 1 LPM (35 +/- 2 cycles per minute)
Chloride (CK)	4000 mg/m ³	Vapor	1000 mg/m ³	
Blood Agent	(> 60 minutes) ⁴	Nerve Agent	(> 65 minutes) ⁴	
Dimethyl Methylphosphonate (DMMP)	System Testing ^{1,2} :	Mustard (HD)	System Testing ³ :	
	4000 mg/m ³	Liquid & Vapor	300 mg/m ³	
Sarin Simulant	(> 115 minutes) ⁴	Blister Agent	(> 65 minutes) ⁴	
Nerve Agent				

Specifications

GENERAL

Product Name:	Quick2000
Product Classification:	Chemical Biological Escape Hood Respirator (CBEHR)
Agents Tested:	CK, HD, GB, DMMP
Tested By:	U.S. Army Soldier Biological Chemical Command (SBCCOM)
Performance:	Meets and exceeds the CBEHR specification created by SBCCOM
Shelf Life:	4 years in original packaging
Storage Temperature:	32°F - 130°F
Packaged Dimensions:	7.25" L x 4.0" W x 2.5" H
Packaged Weight:	16 ounces
Donning Time:	10 seconds or less (average)
Country of Origin:	Made In U.S.A.

RESPIRATORY PROTECTION FACTOR

*85% of Test Subjects Meet Or Exceed: 50,000 PF

HOOD

Size:	Oversized/Anti-Claustrophobic design
Material:	Zytron 300™ (chemical protective fabric)
Color:	Tan
Nose Clip:	Integrated, externally actuated
Nose Clip Pads:	Silicone
Visor:	Mylar, permanent anti-fog coating
Neck Dam:	Rubber, adjusts to necks 10" - 22" in circumference

CARTRIDGE

Breathing Interface:	Silicone mouthpiece
Filter Absorption Capacity:	Approximately equal to U.S. Army C2A1 filter cartridge
Filter Carbon:	Military grade (ASZM-TEDA)
Exhalation Valve:	Military grade (used in M45 protective mask)
Exhalation Valve Cover:	Dual port, high volume purged protection zone



3M™ Chemical/ Biological/Radiological Escape Hood

The 3M™ Chemical/Biological/Radiological Escape Hood can help increase the likelihood of escaping from a potentially contaminated area with minimal adverse health effects. It helps reduce respiratory, eye, head and face exposure against a wide range of industrial chemicals, chemical warfare agents and particulates such as dust, biological agents and radiological particles.

One size fits most. 5 year shelf life. Features 3M™ Scotchlite™ reflective materials and faceshield with anti-fog coating.

Not for use by children and certain individuals.



Part #	Description
3MEH-CBR10	3M™ Chemical/Biological/Radiological Escape Hood, Thigh Mounted
3MEH-CBR11	3M™ Chemical/Biological/Radiological Escape Hood, Belt Mounted
3MEH-CBRTR	3M™ Training Hood
3MTPV-19	3M™ Escape Hood Training Video

The EVAC-U8™ Emergency Escape Smoke Hood

The EVAC-U8™ Emergency Escape Smoke Hood is a sophisticated catalytic filter respirator that provides 15 minutes of respiratory protection for evacuation in a smoke or fire emergency. EVAC-U8™ protects against carbon monoxide and other lethal gases created by fire, and its heat-resistant hood protects the user's head and eyes from smoke, heat and transient flame. EVAC-U8™'s mouthpiece design means that individual fit testing is not required, and the positive pressure hood provides universal fit – it is not affected by glasses, hair length, facial hair, neck size etc. It is small (about the size of a soda can), light, and simple to use. There are no maintenance requirements during the five-year service life of the product. EVAC-U8™ is the most affordable smoke hood available that incorporates essential carbon monoxide protection. Manufactured by Brookdale (a DuPont Canada company). Not for use in NBC incidents.



Part #	Description
BROOK-EVAC-U8	Evac-U8 Emergency Escape Smoke Hood

NOW YOU CAN KNOW YOU'RE PREPARED. INTRODUCING THE RESPONSE HOOD

When escaping from chemical, biological, or riot control agents, every second counts. Depend on the Response™ Escape Hood from MSA. The hood gives your employees the protection they need to escape from a terrorist situation safely, quickly and easily — whether they work in high-profile office environments, for government agencies or embassies, or as law enforcement or first responders. And since it fits most any size and is compatible with long hair, glasses or a beard, the MSA Response Escape Hood is the equipment of choice for today's diverse workforce.



Engineered for Maximum Performance

Manufactured with a high-performance laminate material, the hood is designed to provide you with the latest in head and neck coverage with respiratory protection against chemical and biological agents. The soft, high-stretch rubber neck seal conforms to irregular neck contours, allowing a secure fit on a wide variety of users. Its unique nose cup helps reduce lens fogging and carbon dioxide buildup by directing airflow inside the hood. The Response Escape Hood canister features a high-efficiency particulate filter and activated carbon to combat aerosols, gasses and vapors. In fact, the canister used in the hood contains 50% more carbon than similar canisters used by the U.S. Military. Furthermore, MSA has performed extensive testing on the Response Escape Hood against both simulated and live chemical agents.

Designed for Comfort

In addition to designing the hood for maximum protection, MSA also took into account the comfort factor. A user who is potentially under stress requires ease of donning and use. The large lens and translucent hood allow better visibility, face recognition and help reduce claustrophobia. The nose cup allows communication superior to that of conventional devices, which require wearers to breathe through a mouth bit. With the integrated nose cup, wearers can breathe and speak normally to provide potentially life-saving communications. The hood also features cradle-type head straps that allow for quick, no assistance donning in the event of an emergency.

Performance of Response Escape Hood Canister Against Various Chemical Agents

MSA's Response Escape Hood Canister has been tested to determine how effectively it can protect an individual against a variety of chemical agents. This canister contains a pleated high-efficiency (P-100) filter to remove aerosols, radionuclides and solid particulates; and an impregnated activated carbon bed to adsorb (filter out) gases and vapors. Tear gas agents are removed from the inspired airstream by the P-100 filter and the impregnated carbon bed. Mustard (HD), Sarin (GB), DMMP (a Sarin simulant), HCN and CK are also effectively adsorbed by the carbon bed. The challenge agents are listed in column 1; testing conditions and requirements in columns 2, 3, and 4; and test results in the last column. The Flow rate for all challenge agents was 50 ± 1 LPM. Temperature was 25 ± 3 degrees Centigrade.

Part #	Description
MSA10022208	Response Escape Hood

Challenge Agent	Challenge Concentration, mg/m3	Relative Humidity, %	Minimum Service Time Requirement	TEST RESULTS: Service Time until Break, in minutes
Dimethyl Methylphosphonate (DMMP) (Sarin simulant) <i>Nerve Agent</i>	1000 ± 70	25 ± 0.5	60 minutes until a 0.04 mg/m3 break	> 63
Sarin (GB) <i>Nerve Agent</i>	1000 ± 25	50 ± 5	65 minutes until a 0.008 mg/m3 break	> 65
Mustard Vapor (HD) <i>Blister Agent</i>	200 ± 10	50 ± 5	65 minutes until a 0.42 mg/m3 break	> 65
Hydrogen Cyanide (AC) <i>Blood Agent</i>	550 ± 25	50 ± 3	30 minutes until a 5 mg/m3 break	> 40
HCN after Equilibration for 6 hours @ 25% RH	550 ± 25	50 ± 3	30 minutes until a 5 mg/m3 break	> 40
HCN after Equilibration for 6 hours @ 85% RH	550 ± 25	50 ± 3	30 minutes until a 5 mg/m3 break	> 40
ortho-Chlorobenzylidene Malononitrile (CS) Tear Gas <i>Irritant</i>	23 ± 8	50 ± 3	480 minutes until a 0.4 mg/m3 break	> 480
CS Tear Gas after Equilibration for 6 hours @ 25% RH	23 ± 8	25 ± 3	480 minutes until a 0.4 mg/m3 break	> 480
CS Tear Gas after Equilibration for 6 hours @ 85% RH	23 ± 8	85 ± 3	480 minutes until a 0.4 mg/m3 break	> 480
Chloroacetophenone (CN) Tear Gas <i>Irritant</i>	101 ± 6	50 ± 3	480 minutes until a 0.3 mg/m3 break	> 480
CN Tear Gas after Equilibration for 6 hours @ 25% RH	101 ± 6	25 ± 3	480 minutes until a 0.3 mg/m3 break	> 480
CN Tear Gas after Equilibration for 6 hours @ 85% RH	101 ± 6	85 ± 3	480 minutes until a 0.3 mg/m3 break	> 480
Oleoresin capsicum (C18H27NO3), the "active" ingredient of the OC tear gas <i>Irritant</i>	37	50 ± 3	None	> 480 until a 0.6 mg/m3 break
Cyanogen Chloride (CK) <i>Blood agent</i>	500 ± 25	50 ± 5	65 minutes until a 2.5 mg/m3 break	> 65

Note 1. CK/GB/HD testing was performed by Edgewood Arsenal per EA-DTL-2239.

North ER1000 Escape Respirator

Prepare for the Unexpected!

North Safety Products Escape Respirator was designed for respiratory protection during evacuation from Nuclear, Biological and Chemical (NBC) warfare agents as well as Toxic Industrial Materials (TIM's). North's Escape Respirator exceeds the permeation and cartridge service life requirements of the U.S. Army Soldier Biological and Chemical Command (SBCCOM). It's easy to use, comfortable and can be easily donned and functional within seconds.

Features and Benefits

- Polyurethane hood, polycarbonate lens and butyl neck dam are all highly chemical resistant materials.
- Translucent hood allows face recognition and reduces claustrophobia.
- Proven half mask design reduces fogging, allows easy communication and improves user comfort by limiting re-breathing of exhaled air.
- New Defender Plus cartridges contain impregnated ASZM-TEDA carbon, as specified for U.S. Military canisters, for protection from chemical war agents. A HEPA filter is sealed to the cartridge for particulate protection.
- Large, anti-fog and scratch resistant lens provides a wide field of vision and excellent visibility.
- Highly reflective head strap harness ensures user visibility and a comfortable and secure fit.
- Re-sealable foil package allows user to practice donning prior to emergency use.
- Available in one size to comfortably fit the majority of the adult population.



Part #	Description
NSP-ER1000	Escape Respirator



CARTRIDGE SERVICE LIFE TEST RESULTS

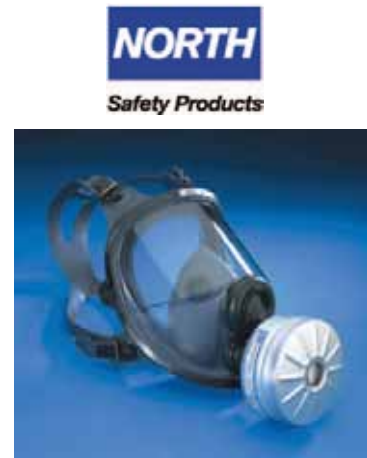
Challenge Agent	Challenge Concentration	Breakthrough Concentration	Test Humidity	Service Time Until Break (Minutes)
Cyanogen Chloride (CK)	500 mg/m ³	2.5 mg/m ³	50%	> 50
Mustard Vapor (HD)	300 mg/m ³	.42 mg/m ³	50%	> 65
Sarin (GB)	1,000 mg/m ³	.008 mg/m ³	50%	> 65
Ammonia (NH ₃)	1,250 ppm	50 ppm	25%	> 45
Cyclohexane (C ₆ H ₁₂)	1,300 ppm	10 ppm	80%	> 45
Formaldehyde (HCHO)	250 ppm	1 ppm	80%	> 45
Hydrogen Cyanide (HCN)	470 ppm	10 ppm	25%	> 200
Hydrogen Sulfide (H ₂ S)	500 ppm	10 ppm	50%	> 200
Nitrogen Dioxide (NO ₂)	100 ppm	1 ppm	80%	> 240
Phosgene (CCl ₂ O)	125 ppm	1.25 ppm	80%	> 240
Phosphine (PH ₃)	150 ppm	.3 ppm	25%	> 240
Sulfur Dioxide (SO ₂)	750 ppm	5 ppm	25%	> 45
Tear Gas Irritant (CS)	3 ppm	.05 ppm	80%	> 480
Tear Gas Irritant (CN)	16 ppm	.05 ppm	80%	> 480

54400 Series Gas Mask Early Responder

The North 54400 series gas mask protects early responders in non-IDLH (non immediately dangerous to life and health) atmospheres containing chemical, biological agents and radioactive dust. Intended for use by fire fighters, police officers, emergency medical service personnel and hazmat teams, the new mask meets the permeation requirements for U. S. Military masks. The mask features a 40-mm threaded connector that accepts U. S. and NATO military thread type canisters, such as the new North 40NBC. The North 54400 gas mask's lightweight design and its oral nasal cup, which reduces lens fogging, help reduce worker fatigue and increases user acceptance. A scratch resistant polycarbonate lens provides excellent optics and greater than 200-degree field of vision. Available in two overlapping sizes, lens meets ANSI standards for impact and penetration resistance. The shelf life of the North 40NBC canisters is eight years from the date of manufacture. The expiration date is printed on bottom surface of each canister.



NSP40NBC



NORTH
Safety Products

Part #	Description	Size
NSP54401	Full facepiece gas mask 54400 series	M/L
NSP54401S	Full facepiece gas mask 54400 series	S
NSP40NBC	Canister for North 54400 series, 40mm thread, 4 canisters per package	
NSP54401NBC	Full facepiece gas mask 54400 series with 40NBC canister, belt mounted carry bag	M/L
NSP54401SNBC	Full facepiece gas mask 54400 series with 40NBC canister, belt mounted carry bag	S
NSP80100	Eyeglass frame (plastic, no lenses)	
NSP80836A	Peel away windows (3 window/piece)	



CFR-1™ Comfort Fit Respiratory System

North's new CFR-1™ reusable particulate respirators give workers the comfort and protection they deserve at a much better value than ordinary dust masks. Ordinary dust masks quickly get warm, moist and uncomfortable and are often replaced several times a day. The filter in the CFR-1™ does not touch the face keeping it cool and dry and one filter can provide all day protection. The facepiece is reusable and replaceable filters will save money and reduce waste.

- Soft thermoplastic elastomer seal provides maximum comfort to ensure greater worker acceptance.
- Exhalation valve removes air quicker for easier and cooler breathing.
- Inhalation valve keeps the filter drier and allows the user to perform a positive pressure seal check.
- Parking mechanism provides a convenient place to put respirator when not in use.
- N95 & P95 filters available or a wide range of applications.
- Adjustable harness system will ensure a comfortable and secure fit.
- Three sizes to comfortably fit most users.
- Also available in a welding respirator with a stainless steel mesh cover to protect the user from heat, sparks and slag.



NORTH
Safety Products

Part #	Description	Size
NSP4200S	CFR-1 Half facepiece respirator	S
NSP4200M	CFR-1 Half facepiece respirator	M
NSP4200L	CFR-1 Half facepiece respirator	L
NSP42N95	CFR-1 replacement N95 filters (20 bx)	
NSP42P95	CFR-1 replacement P95 filters (10 bx)	
NSP77BAG	CFR-1 carry bag for half mask	



NORTH 5400 Series Full Facepiece, Air-Purifying Respirator

The 5400 Series is compatible with all existing North cartridges, filters and accessories, such as the CF2000 Series Continuous Flow Airline Attachment, the BP1000 Series Backpack Adapter, and the North full facepiece welding attachment.

A lighter weight full facepiece weighing only 14 ounces, the 5400 Series lightweight design offers a level of comfort that will ensure greater worker acceptance. Plus its facepiece is made from soft pliable material with high chemical resistance to assure excellent fit and performance.

The lens in the 5400 Series is made of the same hard-coated polycarbonate material found in North's 7600 Series full facepiece. And like the 7600 Series, it meets the impact and penetration resistance requirements of ANSI Z87.1-1989. It also provides excellent optics, with over 200° field of vision and it is scratch resistant. 42CFR84 approved, meets OSHA requirements when used with North cartridges and/or filters.



NORTH 7600 Series Full Facepiece, Air-Purifying Respirator

The North 7600 Series full facepiece respirators are designed to provide eye, face and respiratory protection while providing optimum comfort. While affording an over 200° field of vision, the hard-coated polycarbonate lens protects the wearer's eyes and face against irritating gases, vapors and flying particles. The polycarbonate lens also features optical properties to minimize distortion and astigmatism.

42CFR84 approved, meets OSHA requirements when used with North cartridges and/or filters.



<i>Part #</i>	<i>Description</i>	<i>Size</i>
NSP54001S	North 5400 series full facepiece	S
NSP54001	North 5400 series full facepiece	M/L
NSP7600-8AS	North 7600 series full facepiece respirator	S
NSP7600-8A	North 7600 series full facepiece respirator	M/L





NORTH 7700 Series Half Facepiece, Air-Purifying Respirator

The North 7700 Series is the most comfortable half facepiece respirator available today. What makes it so comfortable? For one thing, the facepiece is made of soft, non-allergenic silicone. Because silicone is so much more flexible than organic rubber, it conforms to a worker's face. Three facepiece sizes make it much easier to fit your workers.

The North 7700's cradle suspension system also adds to the comfort of this respirator and gives an even seal without creating pressure points. The cradle suspension system provides a comfortable, secure fit without slipping.

The low profile of the North 7700 gives workers a wide field of vision and room for protective eyewear. It's low inhalation and exhalation resistance makes breathing easier, leaving more energy for production. 42CFR84 Approved, meets OSHA requirements when used with North cartridges and/or filters.



North 5500 Series Half Facepiece, Air-Purifying Respirator

The North 5500 Series is the optimum low maintenance respirator available today for those customers who prefer the comfort and fit of a reusable respirator, while approaching the economy of a disposable respirator.

The North 5500 incorporates the anatomic design of the 7700 Series with an extremely soft, non-allergenic elastomer to provide comfort, fit and ease of maintenance. The facepiece conforms gently to the worker's face, and is available in three overlapping sizes to provide the optimum fit for the largest number of respirator wearers. The cradle suspension system adds comfort and provides proper positioning of the respirator, for an even seal without creating sensitive pressure points.

All parts are replaceable, extending the useful life of the respirator, plus the complete line of North cartridges and filters can be used with this respirator, eliminating the need for duplicate inventory.



NORTH 7190N99, Half Facepiece Air-Purifying Respirator

The North 7190N99 is a non-oil particulate low maintenance respirator which uses a patented coaxial valve system to make it the coolest, most comfortable low maintenance respirator available today. With this system, rather than exhaling hot, moist air through the same medium used to inhale, the worker breathes through separate intake and outflow channels. For solids, such as welding fumes and non-oil particulates (99% minimum filter efficiency).



Part #	Description	Size
NSP770030S	North 7700 series half face respirator	S
NSP770030M	North 7700 series half face respirator	M
NSP770030L	North 7700 series half face respirator	L
NSP550030S	North 5500 series half face respirator	S
NSP550030M	North 5500 series half face respirator	M
NSP550030L	North 5500 series half face respirator	L
NSP7190N99	7190N99 particulate half face respirator	
NSP719009N99	7190N99 particulate respirator replacement filters (2 pack)	



Respiratory




A complete set of cartridges and filters for Respiratory Protection against a wide variety of air contaminants.

NIOSH/MSHA certified when used with North respirator facepieces.



NSPN7500-1  Organic Vapors Cartridge – Approved for respiratory protection against organic vapors.



NSPN7500-2  Acid Gases Cartridge – Approved for respiratory protection against chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride, chlorine dioxide or formaldehyde.




NSPN7500-3  Organic Vapors and Acid gases Cartridge – Approved for respiratory protection against organic vapors, chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride or chlorine dioxide.



NSPN7500-4  Ammonia and Methylamine Cartridge – Approved for respiratory protection against ammonia and methylamine.




NSP7580P100  P100 Any Particulates Filter (HEPA) – 99.97% efficient against solid or liquid particles including oil-based particles.




NSP7581P100  Organic Vapors and P100 Any Particulates Filter Cartridge – Approved for respiratory protection against organic vapors and P100 particulates.



NSP7582P100  Acid Gases and P100 Any Particulates Filter Cartridge – Approved for respiratory protection against chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride, chlorine dioxide, formaldehyde, and P100 particulates.




NSP7583P100  Organic Vapors, Acid Gases and P100 Any Particulates Filter/Cartridge – Approved for respiratory protection against organic vapors, chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride, chlorine dioxide, and P100 particulates.



NSP7584P100  Ammonia, Methylamine and P100 Any Particulates Filter/Cartridge – Approved for respiratory protection against ammonia, methylamine, and P100 particulates.



NSP75SCP100  Defender™ Multi-Purpose Cartridge & P100 Any Particulates Filter – 99.97% Minimum Filter Efficiency - Defender Multi-Purpose Cartridges are approved for protection against Organic Vapors, Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Sulfide (Escape), Hydrogen Fluoride, Chlorine Dioxide, Ammonia, Methyl Amine, Formaldehyde, and P100 particulates.



NSP7506N95 N95 Non-Oil Particulate Prefilter - 95% Minimum Filter Efficiency – Note: This prefilter can be assembled to any gas/vapor cartridge by using a N7500-27 filter cover.



North Emergency Escape Breathing Apparatus-EEBA

NIOSH Certified, TC-13F-172, TC-13F-195, TC-13F-198

When toxic gas starts to leak, every second counts in helping your workers safely escape the hazard. That's why you can count on North Emergency Escape Breathing Apparatus. This full line can provide safe, comfortable, emergency protection for workers in many industries, including chemical, petrochemical, laboratories and paper mills.

North offers three models of EEBA in five and ten minute units. Model 845 provides an average of 42 lpm of air flow for five minutes, and the 850, 42 lpm for ten minutes. The Model 855 provides a higher average flow, 75 lpm, for five minutes, ideal where escape routes require high levels of exertion. The 855 also features a unique diffuser/muffler system to reduce noise inside the hood.

All models feature a hood made of durable polyurethane. This transparent hood provides superior visibility. To minimize fogging, a deflector blows incoming air onto the lens. After use, the hood can be detached for replacement or cleaning. The cylinder is lightweight and refillable. In an emergency, the high visibility carrying bag speeds locating the apparatus - yellow for the five minute units and orange for the ten minute EEBA. An optional molded case provides easy storage and protection.



North 800 Series™ Self-Contained Breathing Apparatus-SCBA

SCBAs provide the wearer with the highest level of respiratory protection available. These units utilize either a thirty or sixty minute cylinder containing pressurized air which is delivered "on demand" to the facepiece. Because the cylinders are worn on the back of the worker, SCBAs are completely portable, enabling the worker maximum mobility for crucial applications such as emergency response and rescue.

The soft silicone full facepiece incorporates a comfortable dual sealing flange for a superior fit, an oral/nasal cup to reduce fogging, a speaking diaphragm with clear, intelligible voice transmission and a super hard coated polycarbonate lens with greater than 200° field of vision. The demand valve is a "First Breath Release" design, and provides greater than 300 liters per minute upon peak inhalation. Features a luminous pressure gauge, a stainless steel whistle assembly, locking quick-connects and fail-open design. The harness and backplate assembly is designed for comfort and proper weight distribution during the most rigorous jobs.

These units feature a Kevlar®/ Nomex®/PBI® harness that is fully padded. The lens is super hard coated. All SCBA's listed include a carrying case.

*Kevlar and Nomex are Registered Trademarks of DuPont Company
PBI is a Registered Trademark of Hoechst Celanese Corp.*



NORTH
Safety Products

Part #	Description	Size
NSP845	EEBA, five minute (Avg 42 lpm)	
NSP850	EEBA, ten minute (Avg 42 lpm)	
NSP855	EEBA, five minute, high flow (Avg 75 lpm)	
NSP89986	Wall mounting bracket for EEBA 845,850,855	
NSP89987	Molded carrying case for the EEBA 850 and 855	
NSP89992	Molded carrying case for the EEBA 845	
NSP821SK	SCBA, 60 minute, 4500 psi, aluminum, fully wrapped cylinder	S
NSP821K	SCBA, 60 minute, 4500 psi, aluminum, fully wrapped cylinder	M/L
NSP822SK	SCBA, 30 minute, 2216 psi, aluminum, cylinder	S
NSP822K	SCBA, 30 minute, 2216 psi, aluminum, cylinder	M/L
NSP823SK	SCBA, 30 minute, 2216 psi, aluminum, hoop wrapped cylinder	S
NSP823K	SCBA, 30 minute, 2216 psi, aluminum, hoop wrapped cylinder	M/L

Respiratory



Fit Test Kits for use with 3M™ 6000 series



3MFT-10
Qualitative Fit Test Apparatus
(sweet solution)



3MFT-30
Qualitative Fit Test Apparatus
(bitter solution)

3M™ RCSCD

Respirator Protection Management Program, CD-ROM

3M® Respirator Compliance Software helps you develop and manage a respiratory protection program. It includes 42 CFR 84 approved products and incorporates changes to the OSHA 1910.134 respiratory protection standard to help you comply with the latest regulations. It automates record-keeping and prepares you for an audit. The Windows® - based program is menu-driven just point and click. Interactive user's manual is on-line. This software package integrates with 3M® Hearing Compliance Software.



3M™ TPV-04

Fit Testing Video

Available on VHS tape, this program describes the proper procedures to follow when performing qualitative fit testing.

Part #	Description
3MFT-10	Qualitative Fit Test Apparatus (sweet solution)
3MFT-30	Qualitative Fit Test Apparatus (bitter solution)
3MRCSCD	Respirator Protection Management Program (cd-rom)
3MTPV-04	Fit Testing Video (vhs)

North NSP7700-21 Quantitative Fit Test Adaptor

The North 7700-21 quantitative fit test adaptor, when used with a fit test apparatus, enables you to measure respirator fit on the actual respirators that your workers will wear on the job. It can be used to quantitatively fit North 5500, 7700, 5400, 7600 and 7800 series respirators. Simply thread the 7700-21 onto one of the cartridge connectors on the facepiece and thread an appropriate filter or cartridge on top of the 7700-21. Attach a matching cartridge or filter onto the other cartridge connector. Your respirator is now ready to be connected to a quantitative fit test apparatus. The NSP770023 is a facepiece converter for an 800 SCBA or PDAR facepiece.



Part #	Description
NSP7700-21	Quantitative Fit Test Adaptor

RESPIRATOR CLEANING PADS

Large (5" x 8"), individually foil-packaged towelettes contain 70% Isopropanol and are designed specifically for rubber respirator facepieces and other personal safety equipment. The box is designed as a dispenser. 100 towelettes per box.



Part #	Description	Size
NSP7003	Respirator cleaning pads	100/bx

AMBIENT AIR BREATHING SYSTEMS

Allegro Industries has developed a complete line of supplied air respirators systems and equipment for workers in confined space and contaminated environments. They began over 10 years ago selling ambient pumps and their expertise in supplying clean, breathable air has grown to the development of complete respirator systems. Their complete one, two, or three worker ambient air pumps, MSHA-NIOSH approved continuous flow masks or hoods and air hose.

Half Mask Systems

The Half Masks System offer portable, lightweight air sources for one, two or three workers. They are offered with one, two or three comfortable half mask supplied air respirators, a 1/3 hp ambient air pump, 3/4 hp pump or 1 1/2 hp pump, and 50' or 100' breathing air hose.

Part #	Description
ALG9205-01	Half Mask System, one worker with 50' hose
ALG9215-02	Half Mask System, one worker with 100' hose
ALG9205-02	Half Mask System, two worker with 50' hose
ALG9215-02	Half Mask System, two worker with 100' hose
ALG9205-03	Half Mask System, three worker with 50' hose
ALG9215-03	Half Mask System, three worker with 100' hose



Half Mask 3 User System

AMBIENT AIR BREATHING SYSTEMS

FULL MASK SYSTEMS

The Full Mask Systems provide a portable air source for one, two or three respirator users. They include one, two or three comfortable full mask supplied air respirators, a 1/3 hp ambient air pump, 3/4 hp pump or 1 1/2 hp pump and 50 or 100 foot breathing air hose.



Full Mask 1 User System



Full Mask 2 U user System



Part #	Description
ALG9200-01	Full Mask System, one worker with 50' hose
ALG9210-01	Full Mask System, one worker with 100' hose
ALG9200-02	Full Mask System, two worker with 50' hose
ALG9210-02	Full Mask System, two worker with 100' hose
ALG9200-03	Full Mask System, three worker with 50' hose
ALG9210-03	Full Mask System, three worker with 100' hose



Filtration Panels

Allegro's Air Filtration Panels convert shop air used for pneumatic tools and equipment to clean breathable air. They provide from 1 to 5 airline respirators a portable source of up to 30 or 60 cfm of breathable air from 5-125 psig. The 3-stage filtration system purifies compressed air removing water, oil and particulate contaminants. An optional carbon monoxide monitor, which can be operated in AC or DC mode, activates an audible alarm when the concentration of CO exceeds 10 ppm (set for 5 ppm in Canada). The pressure regulator includes a pressure gauge and adjustment knob with locking ring. An adjustable pressure relief valve protects the CO monitor and respirators in the event of regulator failure. The Carry-Air AC/DC-powered unit is housed in a rugged Pelican case for portability and protection. It includes a support stand for stability and upright operation. An AC/DC powered wall-mount unit is also available. Available with and without CO monitors. Both models meet NIOSH requirements for point-of-attachment.



9872-40



9872

Part #	Description
ALG9872	2 worker, carry-air w/CO monitor
ALG9872-40	2 worker, wall-air w/CO monitor
ALG9872W/O	2 worker, carry-air w/out CO monitor
ALG9872-40W/O	2 worker, wall-air w/out CO monitor
ALG9875	5 worker, carry-air w/CO monitor
ALG9875-40	5 worker, wall-air w/CO monitor
ALG9875W/O	5 worker, carry-air w/out CO monitor
ALG9875-40W/O	5 worker, wall-air w/out CO monitor
ALG9878	8 worker, Carry-air w/CO monitor
ALG9878-40	8 worker, Wall-air w/CO monitor
ALG9878-W/O	8 worker, Carry-air w/out CO monitor
ALG9878-40 W/O	8 worker, Wall-air w/out CO monitor

Filtration Panel Specs

Filtration Panels	Series	Max. Flow	Max. Inlet	Dimensions	Weight (lbs)
Carry-air 2 worker	9872 series	30 cfm	150 psig	13"x12"x6"	11
Carry-air 5 worker	9875 series	60 cfm	150 psig	16"x13"x7"	15
Carry-air 8 worker	9878 series	100 cfm	150 psig	22"x15"x7"	24
Wall-air 2 worker	9872-40 series	30 cfm	150 psig	20"x9"x7"	11
Wall-air 5 worker	9875-40 series	60 cfm	150 psig	20"x9"x7"	13
Wall-air 8 worker	9878-40 series	100 cfm	150 psig	20"x9"x7"	17

NOTE: All above air sources come standard with Foster/Hansen couplers. Other couplers available on request.

Respiratory



PremAire® Supplied-Air Respirator System

The PremAire Supplied-Air Respirator System is one of the most advanced air-line respirators available. Designed to provide the utmost in versatility, the modular system allows users to “create” different respirator configurations from one unit. As a result, workers can use the PremAire System to match specific respiratory protection needs to the task at hand. A lightweight, mask-mounted regulator provides high air flow and responds quickly to changing breathing requirements. The basic PremAire Respirator includes the patented manifold and can be upgraded with any of the four following options:

- 1 An Escape Cylinder that permits emergency escape from Immediately Dangerous to Life and Health (IDLH) atmospheres.
- 2 A Dual-Supply option that lets workers connect from one pressurized continuous air source to another without losing continuity of air flow.
- 3 A Duo-Twin option that converts the respirator into a combination supplied-air/air-purifying device. This option allows workers in non-IDLH atmospheres to move freely from station-to-station without being tethered to an air-supply hose.
- 4 A Vortex Tube option that delivers whole-body temperature control for added worker comfort.

The PremAire® Respirator is a full-face, pressure-demand, Type-C supplied-air respirator with a patented waist-mounted manifold that gives it incredible flexibility. Featuring five individual ports, the manifold makes it possible to add any of these capabilities:

- Supplied-air respirator with emergency-escape air cylinder for egress from IDLH atmospheres.
- Combination supplied-air/air-purifying respirator, which lets you move freely from station to station without being tethered to an air-supply hose, yet still be protected by the device’s air-purifying capability.
- Supplied-air respirator with dual-supply capability — an MSA exclusive that eliminates the need to drag long lengths of air-supply hose around the work area.
- Supplied-air respirator with vortex tube, which provides body cooling, or warming, whenever protective clothing is required.

No matter what option you choose, you’ll find that the PremAire System provides dependable protection, engineering excellence and cost-effective versatility.

Traditional MSA Part Numbers

See the following page for Assemble-To-Order information. For customers who require faster delivery, the most popular PremAire system combinations can still be ordered with a traditional MSA part number.

Part #	Description
MSA496823	Complete Assembly, less case
MSA496896	Complete Assembly, 5 Minute composite cylinder, right-hip model, with case
MSA497291	Complete Assembly, 10 Minute composite cylinder, right-hip model, with case



Fully Configured PremAire Manifold

Respiratory

3M

FILTERING FACEPIECE PARTICULATE RESPIRATORS



#3M8293P100 particulate respirator. Minimum 99.97% filter efficiency.
Features adjustable straps, 3M® Cool Flow® Exhalation Valve and face seal. Appropriate for use where HEPA was previously required.



#3M8233N100 particulate respirator. Minimum 99.97% filter efficiency.
Features adjustable straps, Cool Flow exhalation valve and face seal. Appropriate for use where HEPA was previously required. Not for use in atmospheres containing oil aerosols.



#3M8577P95 particulate respirator. Minimum 95% filter efficiency.
3M® recommended for relief against nuisance level organic vapor.* Features M-noseclip and Cool Flow exhalation valve.



#3M8271P95 particulate respirator. Minimum 95% filter efficiency.
Features M-noseclip, Cool Flow exhalation valve, and face seal.



#3M8511N95 particulate respirator. Minimum 95% filter efficiency.
Features M-noseclip and Cool Flow exhalation valve. Not for use in atmospheres containing oil aerosols.



#3M8210N95 particulate respirator. Minimum 95% filter efficiency.
Not for use in atmospheres containing oil aerosols.



#3M9210N95 particulate respirator. Minimum 95% filter efficiency.
Features unique 3-panel design and advanced electret media. Not for use in atmospheres containing oil aerosols. Folds flat for easy storage.



#3M9211N95 particulate respirator. Minimum 95% filter efficiency.
Features unique 3-panel design, advanced electret media and Cool Flow exhalation valve. Not for use in atmospheres containing oil aerosols. Folds flat for easy storage.

*Nuisance levels refer to concentrations below the OSHA permissible exposure limit.

3M® NEGATIVE PRESSURE RESPIRATORS



3M® 6000 Series Full Facepiece Respirators Offer The Flexibility Of Negative/Positive Pressure Operation

- As a negative pressure system, the 6000 series full facepiece can be used with 3M® cartridges CP3N for tear agents and FR-64 for most military and industrial materials.
- Can also be used with other industrial 3M® filters and cartridges.
- Available in small, medium and large sizes.
- Comfortable, lightweight.
- Flexible and durable silicone face seal.
- Provides a wide field of vision.
- Easy to adjust head straps.
- Can be used in negative/positive pressure applications.



3M® FR-M40 Full Facepiece Respirators Are Military-Style Systems Designed For Emergency Response

- As a negative pressure system, the FR-M40 full facepiece can be used with 3M® cartridges FR-64 or FR-C2A1.
- Use drinking tube without removing facepiece*.
- The cartridge can be mounted on either side of the facepiece.
- When used with the FR-64 cartridge the system can be used against most military and industrial materials.
- When used with the FR-C2A1 cartridge, the system can be used against acid gases, CN, CS and as a P100 particulate filter.
- The facepiece is made of a soft, conformable silicone material for user comfort.
- To protect the facepiece from chemical damage, an optional butyl rubber second skin is available.
- Available in small, medium and large sizes.



* Drinking tube may only be used in non-hazardous environments.



3M® 7800S Full Facepiece Respirators—The Standard By Which Other Respirators Are Judged

- As a negative pressure system, the 7800S full facepiece can be used with 3M® cartridges CP3N for tear agents and FR-64 for most military and industrial materials.
- Can be used with other industrial 3M® filters and cartridges.
- 6-point adjustable head strap provides secure, comfortable fit.
- Can be used in negative/positive pressure applications.
- Double-flange face seal for added comfort.
- Designed for versatility, comfort and long life.
- Available in small, medium and large sizes.



Part #	Description	Size	NIOSH Approval number*
7800S S	7800S Full Facepiece – Silicone	S	See cartridge page
7800S M	7800S Full Facepiece – Silicone	M	See cartridge page
7800S L	7800S Full Facepiece – Silicone	L	See cartridge page
6700DIN	6000 Full Facepiece	S	See cartridge page
6800DIN	6000 Full Facepiece	M	See cartridge page
6900DIN	6000 Full Facepiece	L	See cartridge page
FR-M40-10	FR-M40 Facepiece	S	See cartridge page
FR-M40-20	FR-M40 Facepiece	M	See cartridge page
FR-M40-30	FR-M40 Facepiece	L	See cartridge page
Cartridges for 6000, 7800S and FR-M40 Air Purifying, Negative Pressure Facepieces			
450-02-11R06	CP3N Canister, 6000DIN, 7800S		TC-14G-0251
60926	60926 Cartridge, 6000DIN		TC-84A-0704
	60926 Cartridge, 7800S		TC-84A-0537
FR-C2A1	FR-C2A1 Cartridge, FR-M40		TC-84A-3281
FR-64	FR-64 Cartridge, FR-M40, 6000DIN, 7800S		Pending

*NIOSH approval numbers apply to whole systems only. NIOSH approval numbers apply only to system and cartridge or filter listed. Systems used in configurations other than those listed may have separate NIOSH approval numbers; please see product insert.

3M® POSITIVE PRESSURE RESPIRATORS



Belt mounted RRPAS



RRPAS vest unit

3M® 6000 Series RRPAS™ (Rapid Response Powered Air System)

When Fast Response Is Absolutely Necessary

- This is a powered air purifying respirator (PAPR) system in which the components are stored in a unique carrying bag that transforms into a vest with the PAPR in place and ready for use with the 3M® Canister FR-40 and Cartridge FR-57.
- Provides exceptional comfort and mobility.
- Easy to don and doff.
- Hook and loop fasteners allow fast and easy adjustment to individual sizes.
- The power unit provides continuous flow of filtered air.
- Can be used with rechargeable nicad battery or disposable lithium battery.
- Approximate weight is 10 lbs.
- Also available as belt-mounted PAPR.

Part #	Description	NIOSH Approval number*
3MFR-40L68	RRPAS System, 6800DIN Lithium battery and FR-40 canister	See canister
3MFR-57N68	RRPAS System, 6800DIN Nicad battery and FR-57 cartridge	See cartridge page
3MFR-57L69	RRPAS System, 6900DIN Lithium battery and FR-57 cartridge	See cartridge page
3MFR-57N69	RRPAS System, 6900DIN Nicad battery and FR-57 cartridge	See cartridge page
3MFR-40N68	RRPAS System, 6800DIN Nicad battery and FR-40 canister	See canister page
3MFR-40L69	RRPAS System, 6900DIN Lithium battery and FR-40 canister	See canister page
3MFR-57L68	RRPAS System, 6800DIN Lithium battery and FR-57 cartridge	See cartridge page
3MFR-40N69	RRPAS System, 6900DIN Nicad battery and FR-40 canister	See canister page

3M® Breathe Easy™ (BE) 10 Butyl Rubber Hood Systems Provide Exceptional Protection For Civilian Responders

- The lightweight butyl rubber hood provides protection, excellent mobility and visibility.
- Butyl rubber meets MIL-C-51251A (EA) for resistance to chemical agents.
- Provides a continuous flow of filtered air.
- The belt-mounted power unit is lightweight and comfortable.
- Can be used with rechargeable nicad battery or disposable lithium battery.
- The hood can be worn with facial hair and glasses.
- No fit testing is required prior to wearing a hood.
- For use with the FR-57 cartridge.
- Approximate weight is 8 lbs.



Part #	Description	NIOSH Approval number*
3MFR-57N10	Breathe Easy 10 w/Butyl rubber hood, Nicad battery and FR-57 cartridge	See cartridges
3MFR-57L10	Breathe Easy 10 w/Butyl rubber hood, Lithium battery and FR-57 cartridge	See cartridges

Breathe Easy (BE) 10 and 6000 RRPAS Cartridge and Canister

3M453-03-02R06	FR-57 Cartridge	TC-23C-2072
3M453-03-03R06	FR-40 Canister	TC-14G-0261

Batteries and Chargers for Breathe Easy (BE) 10 and 6000 RRPAS

3M520-03-73	Battery Charger, "Smart Charger", Single unit for Breathe Easy Systems only	Component
3M520-03-72	Battery Charger, "Smart Charger", 5 unit for Breathe Easy Systems only	Component
3M520-01-15R01	Nicad rechargeable battery pack for Breathe Easy Systems only	Component
3M520-01-17R01	Nicad rechargeable battery pack for Breathe Easy Systems only	Component
3M520-04-57R01	Lithium disposable battery pack for Breathe Easy Systems only	Component

3M® POSITIVE PRESSURE RESPIRATORS

3M® Air-Mate™ SCBAG™ Self-Contained Breathing Apparatus (SCBA) Is Uniquely Innovative

- Totally unique with all components stored in a carrying bag that converts into a vest with everything in place and ready to wear.
- Completely portable.
- Can be donned in seconds.
- The lightweight harness has shoulder and back padding for greater comfort.
- Continuous chest size adjustment up to 58" to fit most wearers.
- Hook-and-loop closures allow fast and easy donning.
- The vest distributes weight evenly for added comfort.
- Great for confined spaces and emergency use.
- Optional airline connection for extended time usage in IDLH atmospheres.
- Hoop-wrapped, 30-minute cylinder is positioned for ideal weight distribution and easy valve access.
- The full facepiece is based on 3M's innovative technologies.
- Lightweight and comfortable to wear.
- Features a quarter-turn pressure-demand valve with first-breath activation.
- Facepiece available in small, medium and large.



Part #	Description	NIOSH Approval number*	Facepiece Size
3MBA-4430-S	SCBAG	TC-13F-454	S
3MBA-4530-S	SCBAG w/Airline	TC-13F-454	S
3MBA-4430-M	SCBAG	TC-13F-454	M
3MBA-4530-M	SCBAG w/Airline	TC-13F-454	M
3MBA-4430-L	SCBAG	TC-13F-454	L
3MBA-4530-L	SCBAG w/Airline	TC-13F-454	L





3M Air-Purifying Cartridge or Canister—Common Military Agents² Technical Information: Cartridges /Canisters

3M Air-Purifying Cartridges and Canisters for Air Purifying Respirators for Responder Applications

Air purifying respirators (APR) can be used when the contaminant and concentration are known and below IDLH limits and sufficient oxygen is present. The maximum use concentration (MUC) in which an APR can be utilized is the product of the assigned protection factor (APF) multiplied by the airborne exposure limit (such as the TLV³). This number however must be lower than the IDLH, otherwise the IDLH becomes the MUC.

Respirator	3M System	APF
Negative Pressure, Full Facepiece APR	FR-M40 Full Facepiece Respirator, 6000 Full Facepiece Respirator, 7800S Full Facepiece Respirator	50 ¹
PAPR with Hood, Helmet, or Tight-Fitting Full Facepiece	Breathe Easy (BE) 10 Butyl Rubber Hood, BE 10 and 6000 RRPAS	1000

3M Air-Purifying Cartridge or Canister – NIOSH Approvals²

3M Air-Purifying Cartridge or Canister—Common Military Agents²

			CP3N	60926	FR-C2A1	FR-64	FR-40	FR-57
Negative Pressure Applications		•	•	•	•			
PAPR Applications							•	•
Military Specification	TLV³	IDLH Limit⁴						
Testing⁸								
Diethyl Methylphosphonate (DMMP) ⁹	NA	NA			•	•	•	•
Hydrogen Cyanide	4.7 ppm C	50 ppm			•	•	•	•
Cyanogen Chloride	0.3 ppm C	ND			•	•	•	•
Chloropicrin	0.1 ppm TWA	4 ppm			•	•	•	•
Phosgene	0.1 ppm TWA	2 ppm	•	•	•	•	•	•
CN ⁶	0.3 mg/m ³ TWA	101 mg/m ³	•	•	•	•	•	•
CS ⁶	0.39 mg/m ³	C 1.9 mg/m ³	•	•	•	•	•	•
	OASG limit value ¹⁰	OASG limit value ¹⁰						
Sarin (GB)	0.0001 mg/m ³	> 0.2 mg/m ³		•	•	•	•	•

Negative Pressure Applications		•	•	•	•			
PAPR Applications							•	•
NIOSH Approvals	TLV³	IDLH Limit⁴						
Organic Vapors	*	*		•		•	•	•
Sulfur Dioxide	2 ppm TWA 5 ppm STEL	100 ppm		•	•	•	•	•
Hydrogen Chloride	5 ppm C	100 ppm		•	•	•	•	•
Chlorine	0.5 ppm TWA 1 ppm STEL	30 ppm		•	•	•	•	•
Chlorine Dioxide	0.1 ppm TWA 0.3 ppm STEL	10 ppm		•		•		•
Hydrogen Fluoride	3 ppm C	30 ppm		•		•		•
Ammonia	25 ppm TWA 35 ppm STEL	500 ppm		•		•	•	•
Methylamine	5 ppm TWA 15 ppm STEL	100 ppm		•		•		•
Formaldehyde	0.3 ppm C	30 ppm		•		•		•
Hydrogen Sulfide (escape) ⁵	10 ppm TWA 15 ppm STEL	300 ppm		•		•		
Phosphine	0.3 ppm 1 ppm STEL	200 ppm				•	•	
CN ⁶	0.3 mg/m ³ TWA	101 mg/m ³	•		•	•	•	•
CS ⁶	0.39 mg/m ³	C 1.9 mg/m ³	•		•	•	•	•
P100 Particulates ⁵	*	*	•	•	•	•		•
High Efficiency (HE)	*	*					•	•

TLV = time weighted average, C = Ceiling Limit, STEL = short term exposure limit,

NA = not applicable, ND = not determined

* Limits depend on specific contaminant. However, exposure limits have been set for particulates not otherwise classified (PNOC) and particulates not otherwise regulated (PNOR).

- 1 APF applies only when respirator has been quantitatively fit tested. If fit tested qualitatively, an APF of 10 applies.
- 2 Assumes that the criterion for using air-purifying respirators is met: the agent and concentration are known and are below maximum use concentrations and IDLH limits and sufficient oxygen is present.
- 3 TLV = threshold limit value from the American Conference of Governmental Industrial Hygienists. ACGIH Threshold Limit Values and Biological Exposure Indices, 2000.
- 4 IDLH = Immediately Dangerous to Life or Health limit. NIOSH Pocket Guide to Chemical Hazards. 1990. DHHS (NIOSH) Publication No. 90-117.

5 H2S escape only and P100 approvals are available for negative pressure, air purifying respirators only.

6 CN, CS approvals are available for tight fitting, air purifying respirators only. They are not available for respirators with loose-fitting headgear such as hoods or helmets.

7 High Efficiency (HE) particulate filter approval is available for PAPRs only.

8 3M Respirators are not NIOSH approved for these agents. There are no NIOSH approval schedules for DMMP, GB, hydrogen cyanide, cyanogen chloride, chloropicrin, and phosgene. See footnote 6 for explanation of CN and CS.

9 DMMP is a common surrogate test agent for the nerve agents.

10 TLV and IDLH Limit values have not been established for Sarin. The values listed for sarin (GB) are the airborne exposure limit and the limit for which an SCBA is the only acceptable respiratory protection. The Office of the US Army Surgeon General (OASG) established these values.

Selection Chart for First Response Respirators

3M™ Product	Product Description	Appropriate for Level ¹	Suggested Applications ²
SCBAG SCBA System ⁵	Vest mounted, 30 minute, pressure-demand SCBA	B	Emergency response in IDLH ³ , oxygen deficient and unknown environments
Breathe Easy (BE) 10 Butyl Rubber Hood System	Belt-mounted PAPR with loose fitting butyl rubber hood	C	Response in non-IDLH ⁴ environments, medical evacuation, spill clean-up, decontamination, law enforcement
6000 Series	Vest-mounted/belt-mounted PAPR with tight-fitting full facepiece	C	Response in non-IDLH ⁴ environments, medical evacuation, spill clean-up, decontamination, law enforcement
6000/7800S/FR-M40 Full Facepieces	Negative-pressure, full facepiece air-purifying respirators	C	When properly fitted, use when concentrations are less than 50X PEL.
Filtering Facepiece Particulate Respirators	Negative-pressure, filtering facepiece respirators	C	When properly fitted, use when concentrations are less than 10X PEL.

¹Level B requires the highest level of respiratory protection – a pressure-demand, full facepiece Self-Contained Breathing Apparatus (SCBA), or combination pressure-demand supplied air respirator with escape SCBA, approved by NIOSH. Level C allows that properly selected, air purifying respirators can be worn providing that the concentration(s) and type(s) of airborne substance(s) are known and the criteria for using air purifying respirators are met (atmosphere is NOT IDLH and NOT oxygen deficient).

²Respirators must be properly selected for each concentration and type of airborne substance.

³IDLH-Immediately Dangerous to Life or Health is an atmospheric concentration of any toxic, corrosive or asphyxiant substance that poses an immediate threat to life or would cause irreversible or delayed adverse health effects or would interfere with an individual's ability to escape from a dangerous atmosphere.

⁴Non-IDLH – one which is not IDLH, is not oxygen deficient and where the concentration(s) and type(s) of airborne substance(s) are known.

⁵Systems not approved with a pass-through device.

WARNING

- Before using any of the respiratory products pictured in this brochure, the wearer must read and understand all warnings, use limitations and fitting instructions accompanying each product. Failure to do so may result in serious bodily injury, sickness or death.
- Use of 3M^a Respirators by untrained or unqualified persons, or use not in accordance with the instructions, may adversely affect product performance and result in serious bodily injury, sickness or death.
- Each respirator must be properly selected based on the contaminant and concentration levels to which the worker is exposed.
- 3M respirators are to be used only by qualified persons properly trained in their use and maintenance, and only in accordance with their operating and maintenance manuals. Each person using these products must first read and understand the operator's manual. Failure to do so may result in serious bodily injury, sickness or death.
- The compressed air used with any SCBA, Escape SCBA or supplied air system shall meet at least the requirements for grade D breathing air per Compressed Gas Association Commodity Specification, CGA G-7.1-1989, in the United States, and Table 2 of the CSA Standard CAN3-Z180.1-M85, in Canada. The compressor shall be equipped with safety and standby devices per OSHA Standard 1910.134 or CSA Standard CAN3-Z180.1-M85.
- Be sure breathing air couplings are incompatible with outlets for nonrespirable plant air or other gas systems to prevent servicing of airline respirators with nonrespirable air or oxygen.
- The employer must also have established a satisfactory respirator program such as described in OSHA Standard 1910.134 or CSA Standard Z94.4-93.
- Airborne exposure limits have not been established for biological hazards. Respirators can only reduce the exposure. They do not eliminate the risk of contracting disease or infection.

Use Limitations

1. Failure to comply with all instructions and warnings on the use of these products and/or failure to wear the respirator during all times of exposure may reduce respirator effectiveness and result in **serious bodily injury, sickness or death.**
2. Never alter or modify this respirator.
3. Repair or replace respirator parts if they become damaged or worn. Use appropriate 3M parts **only.**
4. DO NOT use Air Purifying Respirators when concentrations of contaminants are unknown or immediately dangerous to life or health (IDLH).
5. Use of the equipment described in this catalog should be in accordance with applicable safety and health standards, respirator selection tables contained in such publications as ANSI Z88.2-1992, or pursuant to the recommendations of an industrial hygienist.
6. If you have any doubts about the applicability of the equipment to your job situation, it is recommended you consult an industrial hygienist or call 3M Occupational Health and Environmental Safety Division, Technical Service Department.





Millennium® Chemical-Biological Gas Mask

A Hycar version of the reliable military-style gas mask (MCU-2/P Mask, used by the U.S. Air Force in Desert Storm) that combines high performance, customized fit, comfort and cost efficiency.

- Flexible, 1-piece polyurethane lens with wide field of vision is bonded to durable Hycar rubber facepiece.
- Drinking tube provides connection for fluid ingestion in contaminated atmospheres.
- Fully elastic, 6-point head harness promotes easy on-off, easy adjustment, no hair pulling.
- Internal noseclip with 2 check valves deflects air from the lens, reduces fogging.
- Standard mechanical speaking diaphragm included, or add MSA's optional ESP® Communications System.

Approvals and Standards: NIOSH approved (No. TC-14G-0254) for protection against chloroacetophenone (CN), chlorobenzylidene (CS), P100 particulate efficiency level, and particulates. NIOSH CBRN approved.

Note: See MSA's WMD Canister Testing Results on the following page.



Part #	Description	Size
MSA10007423	Millennium Chemical-Biological Mask complete with canister, noseclip, drinking tube and clear polycarbonate outsert	S
MSA10007422	Millennium Chemical-Biological Mask complete with canister, noseclip, drinking tube and clear polycarbonate outsert	M
MSA10007424	Millennium Chemical-Biological Mask complete with canister, noseclip, drinking tube and clear polycarbonate outsert	L
MSA818264	Millennium CBA/RCA canisters, 6/bx	

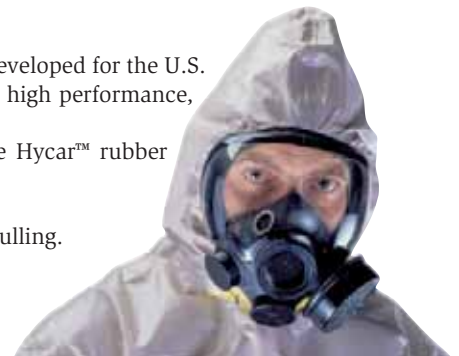
Advantage® 1000 RCA Gas Mask

A clean, simplified respirator with Hycar facepiece (based on a proven facepiece design developed for the U.S. Armed Forces) that's up to 40% lighter than conventional full-face respirators and gives high performance, customized fit, comfort, economy, and user acceptance.

- Flexible, 1-piece polyurethane lens with wide field of vision is bonded to durable Hycar™ rubber facepiece.
- Dual-canister mount (bayonet mount) allows weapon sighting from either shoulder.
- Fully elastic, 6-point head harness promotes easy on-off, easy adjustment, no hair pulling.
- Standard noseclip helps eliminate lens fogging.
- Standard mechanical speaking diaphragm included, or add MSA's optional ESP II Communications System.

NIOSH-approved (No. TC-14G-0235) for protection against chloroacetophenone (CN), chlorobenzylidene (CS), P100 particulate efficiency level, and particulates.

Note: See MSA's WMD Canister Testing Results on the following page.



Advantage® 3000 RCA Mask

The Advantage® 3000 CBA-RCA Mask, incorporates MSA's new Advantage 3000 facepiece, with an MSA-exclusive optically correct lens for superior visibility and peripheral vision, pre-adjusted head straps, lower breathing resistance, and exceptional versatility.



Part #	Description	Size
MSA10036325	Advantage® 3000 CBA-RCA Mask, complete with canister, noseclip and identification tag	M
MSA813860	Advantage 1000 CBA-RCA gas mask, complete with canister, noseclip and identification tag	S
MSA813859	Advantage 1000 CBA-RCA gas mask, complete with canister, noseclip and identification tag	M
MSA813861	Advantage 1000 CBA-RCA gas mask, complete with canister, noseclip and identification tag	L
MSA817590	Advantage CBA/RCA canisters, 6/bx	

Special Information Related to Weapons of Mass Destruction

MSA's Millennium/Advantage 1000 CBA-RCA Gas Mask Canister has been tested to determine how effectively it can protect an individual against a variety of chemical agents.

This canister contains a pleated high-efficiency (HEPA) filter to remove aerosols and solid particulates, and an impregnated activated carbon bed to adsorb (filter out) gases and liquid vapors. The HEPA filter removes nearly all of the tear gas agents from the inspired airstream.

Any small amount of tear gas agent that passes through the filter is adsorbed by the impregnated activated carbon. Sarin (GB), DMMP (a Sarin simulant), and HCN are also effectively adsorbed by the carbon bed.

The challenge agents are listed in column 1; testing conditions and requirements in columns 2, 3, and 4; and test results in the last column. The Flow Rate for all challenge agents was 64 ± 1 Lpm, except for CK, which was 32 Lpm. Temperature was 25 ± 3 degrees Centigrade.

MSA Millennium/Advantage 1000 CBA-RCA Canister Testing Conditions and Results

Challenge Agent	Challenge Concentration, mg/m3	Relative Humidity, %	Minimum Service Time Requirement	RESULTS: Service Time until Break, in minutes
Dimethyl Methylphosphonate (DMMP) (Sarin Simulant) Nerve agent	1000 \pm 70	25 \pm 0.5	60 minutes until a 0.04 mg/m3 break	> 63
Sarin (GB) Nerve agent	1000 \pm 70	25 \pm 0.5	60 minutes until a 0.04 mg/m3 break	> 70
Hydrogen Cyanide (AC) Blood agent	550 \pm 25	50 \pm 3	30 minutes until a 5 mg/m3 break	> 40
HCN after Equilibration for 6 hours @ 25% RH	550 \pm 25	50 \pm 3	30 minutes until a 5 mg/m3 break	> 40
HCN after Equilibration for 6 hours @ 85% RH	550 \pm 25	50 \pm 3	30 minutes until a 5 mg/m3 break	> 40
ortho-Chlorobenzylidene Malononitrile (CS) Tear Gas Irritant	23 \pm 8	50 \pm 3	480 minutes until a 0.4 mg/m3 break	> 480
CS after Equilibration for 6 hours @ 25% RH	23 \pm 8	25 \pm 3	480 minutes until a 0.4 mg/m3 break	> 480
CS after Equilibration for 6 hours @ 85% RH	23 \pm 8	85 \pm 3	480 minutes until a 0.4 mg/m3 break	> 480
a Chloroacetophenone (CN) Tear Gas Irritant	101 \pm 6	50 \pm 3	480 minutes until a 0.3 mg/m3 break	> 480
CN after Equilibration for 6 hours @ 25% RH	101 \pm 6	25 \pm 3	480 minutes until a 0.3 mg/m3 break	> 480
CN after Equilibration for 6 hours @ 85% RH	101 \pm 6	85 \pm 3	480 minutes until a 0.3 mg/m3 break	> 480
Oleoresin capsicum (C18H27NO3), the active ingredient of the OC tear gas Irritant	0.036	50 \pm 3	None	> 480 until a 0.001 mg/m3 break
Cyanogen Chloride (CK) Blood agent	Approx. 4000	80	None	5 to 9 until an 8 mg/m3 break



Respiratory

ESP® II Communications System

The ESP II Communications System, a 1-piece, self-contained, electronic speech projection device, allows wearers to speak normally, yet be heard loud and clear.

- Lightweight, maintains visibility, comfortable to wear, and easy to use.
- Compact, rugged; resists water, heat, and impact.
- Compatible with handheld radios for clear, long-range communications.
- Uses two standard AAA alkaline batteries, which last up to 15 hours.



Part #	Description
MSA10026265	ESP Communications System for Millennium facepiece and Advantage 1000 facepiece

Lens Outsert

Polycarbonate lens outsert snaps into place over Millennium or Advantage 1000 facepiece lens, providing additional impact protection. Tinted outsert helps conceal identity (suitable only when sufficient light exists).



Part #	Description	Size
MSA0008907	Lens Outsert for Millennium Facepiece, clear	S
MSA10008906	Lens Outsert for Millennium Facepiece, clear	M/L
MSA10008909	Lens Outsert for Millennium Facepiece, tinted	S
MSA10008908	Lens Outsert for Millennium Facepiece, tinted	M/L
MSA806463	Lens Outsert for Advantage 1000 Facepiece, clear	S
MSA806462	Lens Outsert for Advantage 1000 Facepiece, clear	M/L
MSA806465	Lens Outsert for Advantage 1000 Facepiece, tinted	S
MSA806464	Lens Outsert for Advantage 1000 Facepiece, tinted	M/L
MSA817040	Carrier, Black Nylon with Belt Loops	
MSA816137	Spectacle Kit for Advantage 1000 and Millennium Gas Masks	
MSA305022	Butyl-Coated Nylon Hood	
MSA10034184	Gas Mask Pouch, Police Style, tactical black with leg strap/shoulder strap	

Laser Protection Outserts in 2-band & 3-band are available.

All skin should be covered when encountering any suspect CW substance. Some customers will be buying suits that completely cover the skin, although they are not complete containment suits, they will cinch down around the lens of the gas mask. A butyl hood, which protects against liquids, may work as additional protection.

Affinity® Ultra Respirators

- 95% efficient protection against particulates and non-oil-based
- Meets NIOSH standard 42 CFR Part 84
- Latex free
- Three sizes available: small, standard, and large
- Wide adjustable straps so you can make adjustments for individual comfort
- Available with or without an exhalation valve



Part #	Description
MSA816459	Affinity Ultra Respirator, N95, small
MSA816460	Affinity Ultra Respirator, N95, standard
MSA816461	Affinity Ultra Respirator, N95, large



OptimAir® 6A PAPR with OptiFilter® Cartridges

The OptimAir 6A Powered Air-Purifying Respirator (PAPR) can be used with an entire family of filters, chemical cartridges and combination cartridges for protection against particulates, toxic gases and vapors or a combination of these hazards. It requires two filters. The unit is available with full- or half-mask facepieces, or hood. The belt-mounted motor/blower assembly includes a highly efficient 4.6 volt motor which has a long service life. The motor/blower assembly features threaded connectors for quick and easy attachment of OptiFilter Cartridges.

The OptimAir 6A PAPR provides respiratory protection by filtering contaminants from ambient air and providing air flow to either a facepiece or hood (with HEPA filters only) at a rate equal to or exceeding NIOSH standards.

The OptimAir 6A Powered Air-Purifying Respirator with Ultravue or Saranex Hood has approvals from the National Institute for Occupational Safety and Health (NIOSH) and Mine Safety and Health Administration (MSHA). Filters and cartridges are covered by separate approval.



Part #	Description	Size
MSA816892	OptimAir® 6A PAPR, complete with Ultravue facepiece, lithium battery, belt and motor/blower module	M
MSA816893	OptimAir® 6A PAPR, complete with Ultravue facepiece, lithium battery, belt and motor/blower module	S
MSA816894	OptimAir® 6A PAPR, complete with Ultravue facepiece, lithium battery, belt and motor/blower module	L
MSA10011890	CBA/RCA OptiFilter cartridges, 6/bx	
MSA 491120	Optional Rechargeable NiCad battery	
MSA463471	Optional standard single-unit battery charger	
MSA486614	Optional single-unit, dual-rate battery charger	
MSA808494	Protective covers, 5/pack	

Advantage®

MSA's Advantage® Respirators may be your best bet for comfort, lightweight, stability, and low maintenance. **GME** and **GME-P100** cartridges are only two of a complete line of particulate, chemical, and combination cartridges for lightweight, low-profile performance.

The Advantage® 200 LS Half-mask respirator subtracts 25% of the weight and adds noticeable softness to a facepiece that was engineered using facial form data from 8,000 people. The thermoplastic rubber facepiece with AnthroCurve™ Sealing Surface instantly conforms to each wearer's face, while delivering exceptional stability, so it will not collapse during wear.

Part #	Description	Size
MSA815692	Advantage® 200 LS Half-mask respirator	M
MSA815696	Advantage® 200 LS Half-mask respirator	S
MSA815700	Advantage® 200 LS Half-mask respirator	L
MSA816697	Advantage® 200 LS Half-mask respirator kit with GME cartridges	M
MSA816701	Advantage® 200 LS Half-mask respirator kit with GME cartridges	S
MSA816705	Advantage® 200 LS Half-mask respirator kit with GME cartridges	L
MSA815359	GME Advantage® cartridges (1 pair)	
MSA815366	GME P100 Advantage® cartridges (1 pair)	



Advantage® 3000

MSA's new globally designed full-face Advantage® 3000 Respirator features an optically correct wraparound lens that eliminates distortion. The soft, pliable silicone facepiece has MSA's proven face seal plus a nosecup to reduce fogging. Users love its very low breathing resistance and easy on/off pre-adjustable straps.

Part #	Description	Size
MSA10028996	Advantage® 3200 twin port respirator	S
MSA10028995	Advantage® 3200 twin port respirator	M
MSA10028997	Advantage® 3200 twin port respirator	L
MSA10029298	Advantage® 3000 spectacle kit	



Respiratory



BlackHawk™ Tactical Air Mask Mask-Mounted Regulator

- Firehawk™ Regulator with Push-to-Connect feature
- Neoprene intermediate pressure hose
- Variable flow bypass system
- Purge button

Part #	Description
MSA10040052	BlackHawk MMR Push-to-Connect APR adapter
MSA10040055	BlackHawk MMR Push-to-Connect APR adapter individual kit
MSA10040054	BlackHawk MMR Push-to-Connect APR adapter truck kit

MMR Xtreme® Air Mask

Sleek, rugged and lightweight, the MMR Xtreme Air Mask is the future of self-contained breathing apparatus (SCBA). Comfortable, wide-vision Ultra Elite® facepiece and clean, low-profile mask-mounted regulator with large shutoff button. High-strength yet lightweight cylinder options and advanced Vulcan™ carrier/harness assembly. MMR Xtreme Air Masks are the superior options available on the Ultralite® and Custom 4500® MMR Air Masks.

MMR Xtreme Air Masks are pressure-demand apparatus, designed to maintain a slight positive air pressure inside the facepiece during inhalation and exhalation. This helps prevent contaminants from seeping in around the facepiece, even if there are small breaks in the face-to-facepiece seal.

The MMR Xtreme Air Masks comply with the performance requirements of the American National Standards Institute (ANSI) and the National Fire Protection Association (NFPA) ANSI/NFPA-1981 Standard for Open-circuit SCBA, 1997 Edition. They are certified by the National Institute for Occupational Safety and Health (NIOSH).

A-T-O “Assembled-To-Order.” This customized product is built to your specifications. Call for details.



APR Adapters

MSA's new APR Adapter lets Homeland Security teams who must be prepared for long-term respiratory protection in various environments switch from using supplied breathing air to using a negative-pressure air-purifying respirator with cartridges.

Part #	Description
MSA10029823	APR adapter for 1/4 turn mask-mounted regulator on SCBA (must use APR cartridges)
MSA10029823	APR adapter for 1/4 turn mask-mounted regulator
MSA10032926	APR adapter individual kit for 1/4 turn mask-mounted regulator
MSA10032924	APR adapter truck kit for 1/4 turn mask-mounted regulator
MSA10032511	Firehawk APR adapter
MSA10032927	Firehawk MMR APR adapter individual kit
MSA10032925	Firehawk MMR APR adapter truck kit



ClearCommand® Communications System

Communication among teams responding to 9-11 was reportedly a problem. Solve this necessity by adding MSA's new ClearCommand® Communications System to SCBA (amplifier with or without radio interface). An internally mounted microphone and large diameter (50mm) amplifier speaker give optimal clarity and more than twice the volume of a facepiece alone.

Part #	Description
MSA10024073	ClearCommand® Communications amplifier radio interface kit with microphone
MSA10024074	ClearCommand® Communications amplifier kit with microphone
MSA10023055	ClearCommand® Communications microphone kit with mounting bracket



RescueAire™ II

Designed to meet the needs of Rapid Intervention Crews (RICs), MSA's RescueAire™ family of products can handle most emergency breathing air situations.

The RescueAire™ II Portable Air Supply System consists of a lightweight Stealth™ cylinder, Quick-Fill® emergency breathing system, ExtendAire™ emergency breathing system, and an MMR regulator, supported by a heat-and flame resistant harness. It's a complete system that can provide emergency breathing air for most victims.



Part #	Description
MSA10025462	RescueAire™ II portable air-supply system with H-60 air cylinder
MSA10025491	RescueAire™ II portable air-supply system with L-30 air cylinder
MSA10015491	RescueAire™ II portable air supply system with L-30 air cylinder
MSA10025462	RescueAire™ II portable air supply system with H-60 air cylinder
MSA10025492	RescueAire™ II portable air supply system, high pressure, less cylinder
MSA10033312	RescueAire™ II portable air supply system, low pressure, less cylinder
MSA10041196	RescueAire™ II system, Firehawk STC MMR with L-30 cylinder
MSA10041195	RescueAire™ II system, Firehawk STC MMR with H-60 cylinder
MSA10041198	RescueAire™ II system, Firehawk STC MMR low-pressure, less cylinder
MSA10041197	RescueAire™ II system, Firehawk STC MMR high-pressure, less cylinder
MSA10041230	RescueAire™ II system, Firehawk PTC MMR with L-30 cylinder
MSA10041199	RescueAire™ II system, Firehawk PTC MMR with L-60 cylinder
MSA10041232	RescueAire™ II system, Firehawk PTC MMR low-pressure, less cylinder
MSA10041231	RescueAire™ II system, Firehawk PTC MMR high-pressure, less cylinder

ExtendAire™ System

The ExtendAire™ System can be used as both an emergency breathing system and a dual-purpose device for MMR SCBA to allow quick, easy connection to an air line.

Dual-Purpose SCBA, typically used by HazMat response teams and firefighters, allow SCBA users to benefit from the capabilities of an air-line respirator. A dual-purpose regulator has two inlet ports—one for the cylinder, the other for the air-supply line. When an air line is connected to the regulator, the wearer automatically receives air from that supply line, thus conserving cylinder air.

Part #	Description
MSA812956	ExtendAire™ kit, single quick-disconnect
MSA812955	ExtendAire™ kit, double quick-disconnect
MSA812958	ExtendAire™ air-line hose
MSA812973	40" Rescue Hose



Quick-Fill® System

The patented Quick-Fill® System lets MSA Air Mask users refill and trans-fill air cylinders without removing their mask or air cylinder. They can:

- 1 Fill an SCBA cylinder from a mobile compressor or cascade system in less than a minute.
- 2 Trans-fill between two cylinders, providing an Emergency Breathing System.
- 3 Extend the air supply over longer durations, using a remote compressed air source.

Part #	Description
MSA10020382	Quick-Fill® System: Ultralite® MMR Quick-Fill® kit (shoulder)
MSA10020383	Quick-Fill® System: Custom 4500® Quick-Fill® kit (shoulder)



Cylinders

Part #	Cylinder Type (Cylinder & Valve)	NIOSH Service Life Rating	Pressure	Weight* (Empty)
MSA807586	Stealth L-30	30-minute	2216 psig	7 lb.-9 oz.
MSA816115	Stealth L30 +	30-minute	3000 psig	7 lb.-9 oz.
MSA469619	Fiberglass Hoop-Wound	30-minute	2216 psig	13 lb.
MSA809872	Aluminum	30-minute	2216 psig	18 lb.
MSA807587	Stealth H-30	30-minute	4500 psig	7 lb.-3 oz.
MSA807570	Stealth H-45	45-minute	4500 psig	10 lb.-9 oz.
MSA807588	Stealth H-60	60-minute	4500 psig	12 lb.-11 oz.

Stealth
Stealth Cylinders are the lightest SCBA air cylinders ever developed by MSA.

ALUMINUM
Less expensive than MSA's Hoop-Wound cylinder, this 30-minute low-pressure cylinder features all-aluminum construction.

Fiberglass Hoop-Wound
Available in a 30 minute low-pressure model, MSA's hoop-wound cylinder features fiberglass wrapping and provides a cost-saving advantage over fully-wound composites.





PortAire®

The PortAire® Portable Air-Supply System holds two standard SCBA air cylinders to provide a portable compressed air source any time an air-line device is used, such as Dual-Purpose SCBA. This compact air-pressure regulating system, housed in a lightweight, durable, anodized aluminum frame, protects cylinders, holds up to 100 feet of air supply hose, and serves as a convenient carrying device.

Part #	Description
MSA807052	PortAire® air supply system

TransportAire®

TransportAire® Systems consist of a handle with straps that fit around a standard SCBA cylinder (high- or low pressure), a regulator and a regulator-to-hose adapter for SAR with dual-supply option.

Part #	Description
MSA816693	TransportAire® portable air-supply system, low-pressure
MSA812217	TransportAire® portable air-supply system, high-pressure



TransAire®

The compact TransAire® 5 and 10 Escape Respirators, which deliver a consistent air supply at 40 lpm, are lightweight and durable, yet their aluminum cylinders can withstand temperatures from 0 to 160 degrees F.

Part #	Description
MSA10008292	TransAire® 5 minute escape respirator
MSA10008293	TransAire® 10 minute escape respirator



Walkaway Mounting Bracket

This storage unit can be mounted with screws on rescue or fire vehicles or any permanent surface. The spring clips permit the wearer to strap on the apparatus unassisted. By stepping forward, the wearer snaps the unit out of the bracket.



Part #	Description
MSA39851	Walkaway Mounting Bracket for Ultralite II, Ultralite MMR or Custom 4500 II or Custom 4500 MMR Mask with 30 Minute Cylinder

Wall-Mounted Case

Corrosion-resistant, tough, plastic case has a leakproof synthetic rubber bulb seal gasket; protects breathing apparatus from sunlight, weathering, dust and corrosive atmospheres.



Part #	Description
MSA695308	Wall-Mounted Case for Ultralite II & Ultralite, MMR, 30 Minute
MSA695796	Wall-Mounted Case for Custom 4500 II & Custom MMR, 30 Minute
MSA695797	Wall-Mounted Case for Custom 4500 II & Custom MMR, 60 Minute

Spectacle Kit for Full Facepiece Respirators

For use by workers who must wear corrective lenses, the Spectacle Kit can be easily inserted into the facepiece. The kit includes a wire support, rubber guide and pair of metal-frame spectacles. Desired adjustment is obtained by moving the spectacles in and out of the rubber guide and up and down the wire support. One size of spectacle frame is used (S-7 shape, 44-mm lens size) with Universal Bridge Corrective Lenses that can be obtained from local sources. The Spectacle Kit can be used in conjunction with a noseclip. There are two kits for the Ultra Elite facepiece; one uses a side wire support to hold the lenses in the facepiece while the other uses a center support to position the unit (spectacle adjustments are similar).



Side Support Spectacle Kit for Ultra Elite Facepiece



Center Support Spectacle Kit for Ultra Elite



Spectacle Kit for Ultravue Facepiece

Part #	Description
MSA804638	Ultra Elite Spectacle Kit (side wire support)
MSA493581	Ultra Elite Spectacle Kit (center support)
MSA454819	Ultravue Facepiece Spectacle Kit
MSA816137	Millenium Advantage 1000
MSA10029298	Millenium Advantage 3000

Respiratory

Patterson Fans Innovative Cooling Products

Our fans were developed by firefighters for firefighters. They are designed to be durable and easy to use. All Patterson products come with a 12-month warranty.

80019

- Super compact
- Can be carried by one person
- 16 gauge steel hull
- Requires only one outlet
- Uses only 4 gallons of water per hour
- Air throw up to 60'
- Size: 16" x 21" x 24"
- Volts: 115; amps: 4; weight: 53 lbs.; CFM: 2600

80013

- Intermittent misting pattern
- Available oscillator 80014
- Size: 54" x 24" x 36"
- Volts: 115; amps: 8; weight: 99 lbs; CFM: 3800

80020

- Can reduce temperatures up to 20°F
- Self-contained water supply
- High velocity air throw
- Can be used indoors or outdoors
- Size: 33" x 33" x 54"
- Volts: 120; amps: 13.5; weight: 195 lbs.; CFM: 6000



80013

80020



80019

Part #	Description
PTT80019	Portable Base Fan
PTT80013	Portable Stroller Fan with Pedestal
PTT80020	Ice Cube

Nature's Air Conditioner – When You Need To Chill Out!

This is NOT an evaporative cooler or a misting system. It is a true air conditioner that removes heat and humidity from the air. WILL*COOL is a revolutionary portable chiller with 3 to 8 hours of effective cooling between loads of ice. It instantly exchanges air temperature by up to 50 degrees. WILL*COOL runs on very low power: 7.1 amps DC and with a converter less than 1.5 amps AC. Operates for 3 to 8 hours on one full load of ice.

Features:

- Versatile and very quiet — can be used indoors or outdoors.
- Equivalent to an 18,000 BTU air conditioner when fully loaded to capacity.
- Self-contained unit with no need to exhaust the heat.
- Removes heat and humidity out of the air and drops it back into the container.

Specifications:

- 12-volt air conditioner.
- Completely portable.
- 7.1 amps DC / 1.5 amps AC.
- 10-gallon capacity holds approximately 36 lbs. of ice, along with 3 gallons of water.
- Can be powered by a 105 amp deep cycle battery for up to 14 hours before battery needs recharging.
- Operates on a single solar panel (120 watts) rated at 7.1 amps DC (with sunshine runs continuously).



Part #	Description
WLCNAC32	WILL*COOL 12-volt air conditioner

Portable Cooling Air Distribution Manifold The COOL-BOX™

The revolutionary COOL-BOX™ provides low cost cool air anywhere and can operate with any airline Type-C mask or hood style respirator. Ideal for cooling Level "A" chemical suits and air supplied hoods. Provides cool air for up to four workers. Attaches easily to any plant air or mobile compressor, and eliminates the need and expense of noisy vortex cooling tubes. Provides NIOSH point-of-attachment components and cooling in one package. Specifications: Provides approximately 50°F air temperature with input temperatures up to 180°F and 75 cfm flow capacity. Requires 20 lbs. of ice for 4 to 8 hours of operation. Attaches to any Grade-D compressed air source up to 150 psi. Adjustable pressure regulator,



#ASIBACB-196LP with
Optional Ambient Air Pump

Part #	Description
ASIBACB-196	Cool-Box, with 1/4" Hansen or Schrader Fittings
ASIBACB-196LP	Cool-Box, Designed Specifically for Use with Ambient Air Pumps Only (Maximum 20 psi Inlet)

The Breather Box™

The Breather Box™ series filters inlet air to provide respirator wearers Grade-D quality air and meets the new 1910.134 dew point criteria. Specifications: Filter change indicators on all three filters, automatic drains in 1st and 2nd stage, 0 - 160 psi pressure gauge, adjustable pressure regulator, preset relief valve, visual flow meter and durable polycarbonate case that can be wall mounted. In-line carbon monoxide monitor with visual and high intensity audible alarm. Available in 50 and 100 cfm versions. Permanent panel mounting applications are available in 50 or 100 cfm versions. Custom sizes are available up to 3000 cfm.

The Auto-Air Breather Box™ has been designed for work in IDLH or hazardous environments where positive pressure breathing air must always be assured. In the event of electrical failure, or if the main line air pressure drops below 60 psi, this unit automatically switches to any reserve air source. Should this occur, audible and visual alarms activate. Available options on all models: CO/O2 monitor for dual monitoring. Intrinsically safe models. Remote audible and/or visual alarms.



Part #	Description
ASIBB50-CO	Breather Box, Standard, 50 cfm, 4 Couplings
ASIBB50-CO4R	Breather Box, 50 cfm, 4 Independent Regulators
ASIBB50-COAA	Breather Box, Auto-Air, 50 cfm, 4 Couplings
ASIBB50-COPM	Grade-D Filtration, Panel Mounted, 50 cfm

(100 cfm and custom options available on all models)



#ASIBB50-CO

Portable Breathing Air Compressors

The low pressure breathing air compressors are portable oil-less air sources for use with Type-C constant flow respirators only (0-15 psi). They are available for 2, 3, 4, 6, or 8 person use.

Part #	Description
ASIBAC-10	Ambient Air Compressor, Low Pressure, 2-Person
ASIBAC-17	Ambient Air Compressor, Low Pressure, 3-Person
ASIBAC-20	Ambient Air Compressor, Low Pressure, 4-Person
ASIBAC-20P	Ambient Air Compressor, Low Pressure, Pneumatically, 4-Person



#ASIBAC-17

Multi-Pak™

The MULTI-PAK™ series of small bottle air carts has been designed with the user in mind. Choose from any basic designs to fit the simplest or most complex job application. All of the small MULTI-PAK™ carts feature fold-down handles, recessed air control panels, rounded cart corners, quick release hose racks, and many other features.

Part #	Description
ASIMP-2L	MULTI-PAK™, 2-bottled air cart, 2400 psi, supplied with 2-outlet manifold CGA-346 wrench-tight nuts
ASIMP-2H	MULTI-PAK™, 2-bottled air cart, 4500 psi, supplied with 2-outlet manifold CGA-347 hand-tight nuts
ASIAC-60	Optional, 60 cf Aluminum Cylinder, 2216 psi
ASIAC-87	Optional, 87cf Fully Wrapped Cylinder, 4500 psi
ASIMP-C	Optional, Nylon cart cover for small MP series carts



MULTI-PAK™



Technical Rescue Carts

Designed to provide air for all the various respirators and unique rescue tools used by Technical Rescue Teams. Stainless steel cart and color designated control panel allow one side of panel for respirator breathing air and one side for any tool requirements. Two, one hour SCBA cylinders or high pressure truck cylinder air can be used to operate the air control panel.

Part #	Description
ASIMP-TR1	Technical Rescue Cart
ASIAIRMP-4R	Multi-Pak™ Rescue Cart with 4500psi, 1 additional LP regulator and fitting added for operation of rescue tools or lift bags, and a 2-way cylinder selector valve
ASIMP-4H	High Pressure Multi-Pak™, 4500psi, 2 bottle air cart supplied with 4-outlet manifold, high flow regulator
ASIAC-87	87cf Carbon Fiber Cylinder, 4500 psi rated — 1 hour



**DESIGNED BY
AND FOR RAPID
INTERVENTION
TEAMS**



**Standard
Shoulder
Strap**



**Regulator/
Cylinder frame
assembly**

Drag Bag

Designed to be carried or dragged into the toughest rescue scenarios carrying the air, rope, hose and tools a rescuer would need during rapid intervention and rescue. 1000 denier nylon material with foam padding provides the strength and shock resistance for the most hazardous rescues. Internal compartments allow for a 1 hour, 87 cf cylinder, regulator assembly, air mask, radio, man-down alarm, and other required rescue supplies. Glove handles with "D" ring slots are located on each end of the bag; and a shoulder strap is provided.

The special cylinder/regulator frame assembly (DRAG-REG) has been designed specifically for use in the DRAG-BAG™. Install any size cylinder on the cylinder brackets and secure firmly with two adjustable cylinder straps. A pressure gauge, safety relief valve, and CGA-347 hand tight nut are provided.

Part #	Description
ASIDBRS-1	DRAG-BAG™ Rescue System complete with DRAG-BAG™ and DRAG-REG (regulator/cylinder frame assembly)
ASIDBRS-1QF	Rescue system complete with DRAG-BAG™, DRAG-REG, and QFH-5 Quick-Fill hose with FD-17 coupler; order cylinders separately

Options/Accessories

ASIDRAG-BAG	Bag only, no accessories or regulator/cylinder frame
ASIDRAG-REG	Bag with Regulator Frame Assembly, Cylinder Straps
ASIH15DB	15' of 3/8" Breathing Hose, "Y" Fitting, No Couplings
ASIH25DB	25' of 3/8" Breathing Hose, "Y" Fitting, No Couplings
ASIQFH-5	Quick-Fill hose, 5ft., 4500psi, female FD-17 coupler with 1/4" male thread. (Option to add to the DBRS-1 for NFPA 1981 regulation).



Multi-Air Command Kit (M.A.C.K)

MACK3 system features four separately regulated air systems that provide a portable air distribution package for any pressure environment. One or two SCBA's are attached to two separate regulated air outlet manifolds. Each manifold can be isolated with directional valve during rescue work. One regulator allows for 0-125 psi output and the other at 0-250 psi for operating "lift bags" or "shoring jacks" for trench rescue. A CGA-347 inlet is provided to receive air from truck mounted air cylinders for continuous operation. A third regulator can be set for low pressure (0-125 psi) to operate air tools and an optional regulator (0-5000 psi) is used for SCBA filling. Optional fill and breathing air coupling adapters are available.

**Model
MACK3
Shown**



Part #	Description
ASIMACK1	4-outlet manifold, 500psi regulator, 2 HP whips, 1 HP inlet port, LP alarm whistle
ASIMACK2	Same as MACK-1 with addition of high pressure fill regulator and 1 fill whip, optional 2nd fill whip available for installation
ASIMACK-3	8 LP respirator/tool outlets (0-150psi), 4 medium pressure outlets, 0-250psi, 4 HP inlet whips, 1 HP CGA-347 inlet and pressure cap, LP alarm whistle, optional fill regulator and hose

Fire/ Rescue Portable Ventilators and Fans Industrial Grade - Heavy Duty

High performance, 3000cfm, gasoline blower provides rescue teams the cfm and pressure for running long sections of duct through twisted rubble during collapse rescue operations. Gasoline blowers are supplied with a custom gas tight exhaust muffler. The five foot metal flex hose directs deadly carbon monoxide exhaust away from the fresh air intake of the blower. Meets CALOSHA emission standards. Standard aluminum non-sparking wheel.



Part #	Description
ASISVB-G8	Gasoline 3.5 HP blower, 3000cfm max free air delivery
ASISVB-G8P	Propane 3.5 HP blower, 3000cfm max free air delivery

Axial and Axial Canister Fans Available in AC/DC

Canister fans are available in 115 VAC or 12 VDC electric for rapid response during confined space rescue. Lightweight axial fans run at 72dba at one meter for extra quiet operation.

Part #	Description
ASISVF-8AC	Single speed AC axial fan, 115 VAC, 1/3 HP, 1395cfm free air
ASISVF-8DC	Single speed DC axial fan, 12-volt, 1/6 HP, 1170cfm free air 10 ft. cord with battery clips
ASISVF-8DCBP	DC axial fan, 12-volt, 1/6 HP, 1170cfm free air for use with portable battery pack
ASIBP-950	Portable battery pack for SVF-8DCBP
ASISVF-15ACAN	AC axial fan with duct canister attached, 15 ft. duct installed
ASISVF-15DCAN	DC axial fan with duct canister attached, 15 ft. duct installed

Other axial canister models are available with 6 ft. and 25 ft. duct installed.

**"FIELD TESTED
PERFORMANCE"**



**SVF-8DCBP
with battery
pack**



Stationary Fill Systems

SCBA fill stations are used to protect workers from the potential rupture of SCBA cylinder during the refill process. Should a cylinder failure occur, the blast is directed up and away from the worker in front of the control panel.

Bulk Fill: Features 0-5000 psi adjustable regulator, fill hoses, full control panel with gauges, aluminum water filled cooling tanks with drain valve and nylon coated. Single air inlet connection, available in 2, 3 or 4 cylinder operation. 23''L x 18''W x 60''H

Cascade: Inlet connections for up to four air storage tanks, 4 air receiver control valves and pressure gauges. 23''L x 18''W x 66''H

FRAG-1: Aluminum fragmentation fill assembly. Holds up to 87 cf size SCBA cylinder, nylon coated to prevent cylinder scratches, locking lid assembly, bolt-down, floor base assembly, 15'' base, 30''H.

Part #	Description
ASISFS12	Bulk Fill Station
ASISFS42	Cascade Fill Station
ASIFRAG1	Aluminum Fragmentation Fill Assembly



**Bulk Fill
SFS12**



**Cascade
SFS42**



FRAG-1

Bauer Refill Systems

Continuous duty fill compressors are available from 6.0 cfm to 145.0 cfm in electric, gas or diesel engines. Portable light-duty compressors are available from 3.9 to 8.0 cfm. Bauer line of high pressure fill compressors and custom airline monitors, air storage and air distribution systems. Output air pressures up to 6000 psi and over 145 cfm capability. Call for availability and pricing.

Part #	Description
ASIBAFC-CVE3	Vertical High Capacity Bauer Fill Compressor
ASIBAFC-G4.3	Basic Fill Compressor



Vertical Fill Compressor



Horizontal Fill Compressor

Disaster Prevention

EXPLOSION CONTAINMENT SYSTEMS

Mirage Technologies PROTECTAINERS are designed specifically to provide superior protection against blast and fragment effects caused by a wide range of explosive devices. In today's world, explosive devices are the preferred weapons used by terrorists and the trash receptacle is the preferred place in which they place these devices.



Public Safety Model Semi-Vented PROTECTAINERS

Mirage Semi-Vented PROTECTAINERS combine a high strength outer steel shell with a patented inner compressive layer to provide security, protection and safety to the surrounding public. The compressive layer is designed to absorb the major blast energy and resist fragments. The outer shell contains any remaining lateral blast energy and fragmentation. Residual blast energy is vented upwards away from the public, keeping the receptacle un-penetrated. PROTECTAINERS have been extensively tested by government agencies and are in use at many government and public facilities nationwide, including airports, train stations, subways, courthouses, office buildings, and embassies. Currently in use by: The Pentagon, Metro-North Railroad, Amtrak, MARTA, Dulles International Airport, Chicago O'Hare, Memphis, St. Paul and Salt Lake City airports, Phoenix Courthouse, Holocaust Museum, New Jersey Transit, Fairfax County Court, Oklahoma and many other domestic public places. In addition, PROTECTAINERS are placed worldwide, including France, Spain, Israel, England and Turkey.



In addition to its unsurpassed technical specifications, Mirage Semi-Vented PROTECTAINERS are engineered to provide a highly effective means of litter control. An internal hinged lid with lock provides a secure trash container with easy service and minimum maintenance. Models range from 16 to 40 gallons of trash capacity. All models are available in stainless steel and steel configurations with custom colors.

The *Silver* Series is our steel semi-confined containers (heavier and shorter than the Gold Series with an external hinge for the lid). The Silver Series can be provided in different painted colors and either steel or stainless steel lid. Protection criteria is up to 1.6 lbs. of TNT and trash capacity of 30 or 40 gallons.

The Gold Series is an aesthetically pleasing high-end trash receptacle manufactured either from painted steel or solid stainless steel with internal hinge and lock. Available sizes are: 16, 21, 30 and 40 gallons. The Gold Series is lighter than the Silver and Platinum models. Protective criteria is up to 2 lbs. TNT.

The Platinum Series is our heavier models capable to up to 9 lbs. of TNT, only in the steel configuration.



Semi-Vented PROTECTAINER Specifications

Part #	Dimensions (Diameter/Height)	Weight (lbs)	Protective Criteria TNT Equivalent (lbs)	Opening (Width/Height or Gallon)
MTISR-30 Silver	27"/31.5"	410	1.6	16"/30 gallons
MTISR-40 Silver	27"/31.5"	550	1.6	16"/40 gallons
MTIGR-21 Gold	24"/38"	365	2.0	16"/21 gallons
MTIGR-21S (Stainless Steel)	24"/38"	365	2.0	16"/21 gallons
MTIGR-30 Gold	27"/38"	430	2.0	16"/30 gallons
MTIGR-30S (Stainless Steel)	27"/38"	430	2.0	16"/30 gallons
MTIGR-40 Gold	27"/40"	440	2.0	16"/40 gallons
MTIGR-40S (Stainless Steel)	27"/40"	440	2.0	16"/40 gallons
MTIPL-40 Platinum	27.95"/39.37"	913	5.5	16"/40 gallons

Disaster Prevention

Chemical & Biological Resistant Chamber

The Mirage Chemical / Biological Resistant Chamber (CBRC) is offered as a solution for providing “collective” protection in buildings without existing protection facilities. Consisting of 2 major components, the “Chamber” and the “Air Filter Unit [AFU]”, the chamber is simple to erect inside an existing building or structure. Inflation and over pressure of the chamber occurs when the AFU is activated. The Mirage CBRC provides protection for as many as 10 people in a single unit without reliance on “gas masks” or special “protective” clothing.

Air Filter Unit Features:

- The AFU operates on standard 110V/60 cycle power.
- The AFU is equipped with a battery backup in case regular power is lost or interrupted
- Battery backup is designed to operate at full capacity for 10 hours.
- AFU shelf life is 10 years
- AFU battery backup shelf life is 5 years [requires recharging every 6 months if not in regular use]
- 4 Stage Filter System:
 1. Particle Filter – The Stage 1 Particle Filter traps 85% of all particles entering the filter.
 2. HEPA Filter – The Stage 2 HEPA-Filter traps 99.995% of all the particles not trapped by the Stage one filter including substances as small as 0.3 microns.
 3. Gas Filter – The Stage 3 Gas Filter traps all substances entering in a gas form.
 4. Charcoal/Carbon Filter – The Stage 4 filter “cleans” the air before discharging it into the protective chamber.
- The AFU will sustain multiple attacks during a single event but must be replaced at the conclusion of the event
- Once the AFU is exposed to agents of any type a HazMat Team must properly dispose of it. A disposal bag is provided with the kit.
- If the AFU is exposed to the air over an extended period of time the filter will absorb moisture. Maintenance of the filter in this situation requires the filter be weighed to determine the amount of water absorbed. The total allowable weight is marked on the AFU. If the total has been reached the filter must be replaced. It can be returned to the manufacturer to be dried and a replacement filter installed.
- The AFU can be operated for a period of up to 6 months if not attacked by any agents.
- A repair kit is provided with the kit in case the chamber is damaged or cut.

Technical Specifications:

Air Filter Unit:

Airflow Rate: 36M²/hour / 21 Cubic Feet Minute
Over Pressure @ 36M²/hour: 10mmWC / 0.4”WC
Separation Efficiency of aerosol filter: 99.995%
against particles of 0.3 microns
Weight of Activated Carbon: 3.8Kg / 8.36lbs
Operating Voltage: 110 / 60 Hz
Noise Level: 698dB(A)

Chemical / Biological Resistant Chamber:

Gas Permeability: In accordance with Military Standard 282, Method 204.1
Fabric: Laminated PVC and Nylon
Footprint: 2.5m/8.2Ft (L) X 2.5m/8.2Ft (W) X 2.2m/7.22Ft (H)
Cubic Volume: 13.75m³ / 485Ft³
Capacity: 10 People

Mirage CBRC Features:

- The CBRC Soft Chamber is manufactured from a laminated fabric tested to be gas tight in accordance with MIL-STD 282, Method 204.1. The fabric has been tested to withstand attack by all known chemical and biological agents. [Test report is available on request]
- The Air Filter Unit [AFU] consists of a 4-stage filter unit, blower unit, over pressure relief valve and emergency backup manual hand operated blower.



Indoor model with heavy-duty floor and airlock.

Available in the following configurations:

Stand alone model available with or without heavy-duty floor and airlock.

Indoor model (ceiling support poles included) available with or without heavy-duty floor and airlock.

Note: All models include 4-stage filter, blower, battery and hand bellows for manual backup. Custom sizes available.



Disaster Prevention

EMERGENCY PREPAREDNESS FIRST AID KIT

Prepare for the Unthinkable

The American Red Cross, Department of Homeland Security, and the Federal Emergency Management Agency (FEMA) are urging individuals and families to prepare for disasters.

North Safety Products has developed a First Aid Kit which meets guidelines set by these agencies. The kit includes high quality standard first aid items such as bandages, antibiotic ointment, alcohol and sterile prep pads, anti-microbial towelettes, first aid and burn cream, petroleum jelly, syrup of Ipecac, laxative, pain relievers, antacid, anti-diarrhea tablets, eyecare products, sunscreen, vitamins, needles, scissors, thermometers, tweezers, nitro gloves, tongue depressors, poison control center directory, and first aid manual. Items needed for incidents of a more unspeakable nature such as anti-radiation pills and activated charcoal for poison treatment are also included.

Manufactured by North Safety Products so you can be assured the kit is of the highest quality and has proven performance.



Part #	Description
NSP777013	North Safety First Aid Kit



Reduce the Risk of Becoming Infected with West Nile Virus Use North Safety's Bug X Towelettes

Features:

- Highly effective 52.25% DEET formula.
- 8" x 5" towelette for full coverage.
- EPA registered in all 50 states.
- Repels mosquitoes, ticks, fleas, mites, black flies, sand flies, and deerflies.



Part #	Description
NSP122004X	Bug X Towelette, 50 pack dispenser, 50 pouches per pack, 10 packs per case
NSP122006X	Bug X Towelette, 100 pack dispenser, 100 pouches per pack, 6 packs per case

FERNO MIR

Mass Casualty Incident Management System

Being prepared for a Mass Casualty Incident means more than just having additional medical supplies, command vests, and triage tags. This Mass Casualty Incident Management System is a complete, ready-to-use system which provides the necessary command equipment and forms for use at an actual MCI. It also serves as a guide for planning and training for an MCI. This MCI System has been in use since 1988 nationwide.

The system is composed of a wide variety of custom designed items. Many of the components are organized in individually marked portfolios which allow for easy distribution of checklists, forms, and supplies to each of the EMS sector officers. Each portfolio contains a plastic clear-view clipboard which can be marked on with a grease pencil. Within the clipboard is a customized, step-by-step checklist to be followed by the officer. The clipboards also hold the specially developed administrative forms which allow each officer to keep track of critical information.

MCI Kit contains the following:

- The MCI Management Manual.
- Four-Color EMS tactical command board (folding, 18" x 24").
- Six (6) individually labeled portfolios containing supplies for each of the five primary EMS Sector Officers: EMS commander, triage officer, treatment officer, transportation officer, staging officer.
- Five (5) clear-view, markable clipboards (one clipboard for each officer).
- A complete supply of specially designed checklists and administrative forms, custom developed for each of the EMS Sector Officers.
- Assorted grease pencils, mechanical pencils, pens, legal pads and 3x5 file cards for each portfolio.
- 180 color-coded triage ribbons on belt clips and thirty (30) triage tags.
- Incident protocol cards and hospital directions cards (included in the staging officer's and transportation officer's portfolios).
- Five (5) identification vests color-coded in five different colors and labeled for each of the EMS Sector Officers.
- Five (5) color-coded marker flags on six-foot staffs for identifying the four (4) treatment area divisions and the command post.
- All items except the marker flags, are packed together in a padded, durable carrying case.



MCI Kit

NAJO® LITE Backboard

The Newest and Most Cost Effective X-Ray Translucent Backboard on the Market Today. The NAJO Lite Backboard is the most cost effective NAJO backboard, while still keeping with the tradition of being 100% X-Ray translucent. It has two handles at the tapered end to allow for more stable transport and also has angled edges for log-rolling. The NAJO Lite has an opening down the lower half of the board to immobilize each leg separately if so desired. It holds up to 450 pounds! (16"W x 72"L x 1³/₄" thick) See standard color options below. Board weighs 14.5 pounds.



NAJO® RediHold®

The RediHold has two handles at the tapered end to allow for a more stable transport of the patient. The head area has been made smooth to insure that all head immobilization devices, as well as any other sticking devices adhere to the board without delay. RediHold is a 100% X-Ray translucent, one-piece plastic board. It is 1- 3/4" thin and has angled edges for log-rolling. It weighs 16 pounds and holds up to 600 pounds! (16"W x 72"L x 1³/₄" thick)



Part #	Description
FERAME-401	M.C.I. System with folding command board (board folds from 24" x 18" to 12" x 18" and fits in M.C.I. kit carrying case), METTAG Triage Tags
FERAME-402	M.C.I. System with folding command board (board folds from 24" x 18" to 12" x 18" and fits in M.C.I. kit carrying case), EMS Associates Triage Tags

Part #	Description
FER275-201-1XX	NAJO® Lite Backboard (no pins)
FER275-201-2XX	NAJO® Lite Backboard (with pins)
FER275-101-1XX	NAJO® REDIHOLD® Backboard (no pins)
FER275-101-2XX	NAJO® REDIHOLD® Backboard (with pins)

FERNO MIR

Command Post Flags

Bright green flag measures 30" x 18" and is constructed of heavy-duty 420 denier packcloth nylon material. Flag mounts on 4-foot fiberglass staff. Flag, bracket and staff are packaged together in a compact, durable carry bag. Ideal for any vehicle - fits in almost any compartment.

- Two Mounting Options:
 - > Window mount: heavy-duty metal bracket allows flag to be securely and quickly mounted to any vehicle door with a roll-up window. Padded bracket will not mar vehicle finish, suction cups hold bottom of bracket securely to window.
 - > Quick disconnect light bar mount: low profile connector mounts to the bottom of many standard light bars. Flag pole connects quickly and securely to bracket in seconds.



Command Post Flags

Treatment Area Flags

- Set of four (4) color coded flags - red, yellow, green, black. Each flag measures 30" x 18" and is constructed of heavy 420 denier nylon packcloth.
- Numbers on flags correspond to patient priority - 0, 1, 2, 3. Flags mount on collapsible, 3-section aluminum staffs - 8 feet high when fully assembled.
- Flags and staffs are packaged together in a compact, durable carry bag. Ideal for each vehicle - fits in almost any compartment.



Treatment Area Flags

Economy Treatment Area Flag Set

Same set of five (5) flags as included in the Mass Casualty Incident Management System. Triangular vinyl flags are 10" H x 12" W and are mounted on six (6) foot fiberglass staffs. Includes four flags for marking the treatment area sections (1 red, 1 yellow, 1 green, 1 black) and one command post flag (orange with black CP).



Economy Treatment Area Flag Set

Part #	Description
FERAME-301	Command Post Flag with window bracket
FERAME-302	Command Post Flag with light bar bracket
FERAME-311	Deluxe Treatment/Triage Area flag set
FERAME-312	Economy Treatment Area Flag Set

Triage/Treatment Area Tarps

Tarps are made of heavy duty polyurethane coated denier material.

- Eight (8) 1" brass grommets are placed around the perimeter of the tarps.
- Set includes four (4) 10' x 12' tarps in four different colors (Red, yellow, green and black) for use in setting up the treatment area.
- Carrying case. (Carry case is not exactly as pictured).
- Fully washable and decontaminable.

Part #	Description
FERAME-468	Triage Tarps, red, yellow, green and black



FERNO MIR

Triage Supply Kits

The affordable, convenient way to keep all your triage supplies together in one simple kit. All supplies are packaged in a rugged, durable high-impact plastic carrying case.

100 Patient Kit Includes:

- 100 Triage Tags
- 3 Triage Ribbon Sets (each set contains 15 red, 15 yellow, 15 green and 15 black ribbons, pre-cut and mounted on belt clips)
- 2 Clipboards for triage tags
- 2 Imprinted triage aprons (for holding triage tags and identifying triage personnel)
- Carrying Case



150 Patient Kit Includes:

- 150 Triage Tags
- 4 Triage Ribbon Sets (each set contains 15 red, 15 yellow, 15 green and 15 black ribbons, pre-cut and mounted on belt clips)
- 3 Clipboards For Triage Tags; 3 Imprinted Triage Aprons (for holding triage tags and identifying triage personnel)
- Carrying Case

Custom kits of any size are available, call an PowerPlus Team Member for a quote.

Treatment Area Barricade Tape

Color-coded, imprinted barricade tape is ideal for controlling patient flow, cordoning off the Triage Area, and presents a visual indication of boundaries between the sections of the treatment area. Can be used in conjunction with treatment area flags. 1000' roll of 3" tape.

Available in the following colors and imprints:

- Red - 1ST PRIORITY
- Yellow - 2ND PRIORITY
- Green - 3RD PRIORITY
- White - TRIAGE AREA
- Orange - COMMAND POST
- Red - HOT ZONE
- Yellow - WARM ZONE
- White - DECON ZONE
- Green - COLD ZONE



Triage Plus Tape Belt

Pre-assembled, custom designed triage ribbon kit is a must for every emergency vehicle.

- Standard color triage tape is enclosed in a sturdy nylon case with convenient velcro closure. Adjustable web belt allows kit to be worn as a fanny pack or over the shoulder.
- Initial triage algorithm for quick reference is included and slides into a clear plastic sleeve in the top of the case.



Part #	Description
FERAME-431	100 Patient Triage Supply Kit with EMS Associates Tags
FERAME-432	100 Patient Triage Supply Kit with METTAGS
FERAME-433	150 Patient Triage Supply Kit with EMS Associates Tags
FERAME-434	150 Patient Triage Supply Kit with METTAGS
FERAME-461	Red - 1ST PRIORITY, 1000' Roll of 3" tape
FERAME-462	Yellow - 2ND PRIORITY, 1000' roll of 3" tape
FERAME-463	Green - 3RD PRIORITY, 1000' roll of 3" tape
FERAME-464	White - TRIAGE AREA, 1000' roll of 3" tape
FERAME-465	Red - Hot Zone, 1000' roll of 3" tape
FERAME-466	Yellow - Warm Zone, 1000' roll of 3" tape
FERAME-467	White - Decon, 1000' roll of 3" tape
FERAME-459	Green - Cold Zone, 1000' roll of 3" tape
FERAME-460	Orange - Command Post, 1000' roll of 3" tape

Control Emergency Bleeding with QuikClot™

Now available to civilian emergency response agencies: police, fire, rescue and EMS!

QuikClot™ Adsorbent Hemostatic Agent

QuikClot™ is a new and remarkably effective medical treatment that accelerates coagulation of moderate to severe wounds, including high-volume venous and arterial bleeding. It rapidly removes liquid from the blood to concentrate clotting factors and stop bleeding on contact.

- Effective – promotes coagulation within seconds.
- Safe – bio-inert; no inherent risk of disease transmission.
- Easy to use – sterile, single-dose, easy to open package.
- Economical – low cost allows widespread deployment; 3 year shelf life.

Part #	Description
MRM71607	QuikClot™, white package, 3.5 oz.
MRM71608	QuikClot™, green package, 3.5 oz.



Ambu® RDIC Resuscitator

Specially designed for chemical or biological atmospheric conditions! Ambu is pleased to announce the availability of the world's only effective, truly portable manual resuscitation system designed and tested specifically for use in chemical or biological conditions. This resuscitator was developed according to US military specifications. The butyl outer cover provides optimal resistance to penetration during ventilation in toxic atmospheres. Can also be used in all conventional ventilation emergencies. The RDIC Resuscitator has a specialized inlet filtration system, including C2 canister, for filtering contaminated air and comes with a durable, high-impact molded carry case.



Ambu®



Ambu® SPUR® Disposable Resuscitators

The single patient use resuscitators feature a see-through patient valve allowing for a visual check of operation and support strap (adult and pediatric versions) which facilitates a steady grip and uniform compression rate. Fully disposable and meets or exceeds BS, ISO, and ASTM specifications. Available in three sizes – Adult, Pediatric, & Infant.

Ambu® Res-Cue Pump™

The Res-Cue Pump was designed for quick use and easy application. This pump can be used for pharyngeal and tracheal suction of the patient. Has a disposable collection canister which features overflow protection. Canister volume is 300 ml.

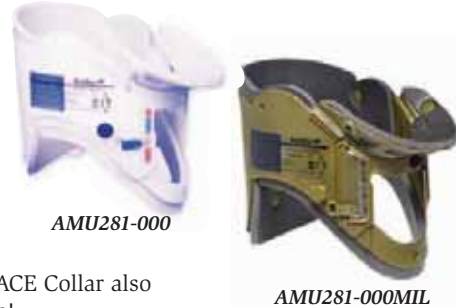


Part #	Description	Pack
AMU233-005-000	Ambu® RDIC Resuscitator	1 ea.
AMU420-211-000	Ambu® Adult SPUR® resuscitator w/medium adult mask w/oxygen reservoir bag	12/cs
AMU430-213-000	Ambu® Pediatric SPUR® resuscitator w/toddler mask w/oxygen reservoir bag	12/cs
AMU444-212-000	Ambu® Infant SPUR® resuscitator w/infant mask w/oxygen reservoir tube	12/cs
AMU276-000-001	Ambu® Res-Cue Pump™ complete w/1 Disposable Canister, French Cath. Adapter, 2 Suction Catheters (Infant & Adult) & Disposable Bag	
AMU276-000-010	Ambu® Disposable Canister Kit (1 Canister, 2 Catheters, Dispose Bag)	10/cs
AMU276-000-011	Ambu® Red Soft Carry Case (Fits Pump, Canisters, Catheters)	1 ea.



Ambu® Perfit ACE™ Extrication Collar

The Perfit ACE actually adjusts to any adult size neck with 16 settings as well as the four standard adult sizes. The Perfit ACE incorporates latches which allow the rescuer to size the collar according to the victim's exact neck size. Two safety buttons hold the collar in place for maximum reliability. Stores completely flat. Radiolucent, CT, and MRI compatible. This new, improved version includes new nasal cannula holders. Mini Perfit ACE Collar also available (infants, pediatrics, and small adults). Olive green Military version also available!



Ambu® NAJO® Head Wedge™

The unique Ambu® NAJO® Head Wedge™ is a disposable device capable of keeping the patient's head immobilized to any backboard. It is applied easily and quickly in just four simple steps. With its innovative construction it enables a perfect fit to the patient in one go, saving time at the scene when seconds count! Made of plastic, it is superior to any cardboard product. No need to worry about bad weather or tough handling anymore. Is X-Ray translucent and completely readjustable. Now have Plastic for the same price as cardboard!



Part #	Description	Pack
AMU281-000	Ambu® Perfit ACE® Extrication Collar	30/cs
AMU281-151	Ambu® Adult® Perfit ACE® Extrication Collar packaged with head wedge	30/cs
AMU281-106	Ambu® Mini Perfit ACE®	30/cs
AMU281-161	Ambu® Mini Perfit ACE® Collar packaged with head wedge	30/cs
AMU281-000MIL	Ambu® Perfit ACE Military Version	30/cs
AMU264-034	Ambu® NAJO® Head Wedge™ Cervical Immobilization Device with head strap	10/set
AMU264-035	Ambu® NAJO® Head Wedge™ Cervical Immobilization Device no head strap	10/set
AMU264-036	Ambu® NAJO® Head Wedge™ Cervical Immobilization Device with straps	10/set

Ambu® Res-Cue Mask™ Pocket-Size CPR Mouth Barrier

Features:

- Suitable for both adults and children
- Reusable mask, easy to clean
- Replaceable one-way valve with biological filter in one housing
- Available in hard or soft case models
- Pliable in extreme temperatures
- Optional oxygen inlet valve and head strap
- Valve can be used for infant or neonate masks
- Latex free
- All models include gloves and alcohol wipes
- No assembly required

The First Responder Kit includes:

- Res-Cue mask
- 2 sets of gloves
- Scissors
- Disposable razor
- Vionex wipe
- Black soft case



Ambu® Res-Cue Key® Contact Prevention for CPR

Features:

- Suitable for both adults and children
- Elastic ear bands fit over victim's ears to keep the mask in place
- A one-way valve prevents contamination of the outer surface of the mask
- Standard mouth-to-mouth and mouth-to-nose techniques can be used without modification
- Transparent — allowing the victim's response to be seen
- Includes a card-size instruction guide and basic CPR techniques
- Quantities may vary for private label versions (10% over or under possible)
- Latex free
- Available in black, blue, red, yellow, green, and orange



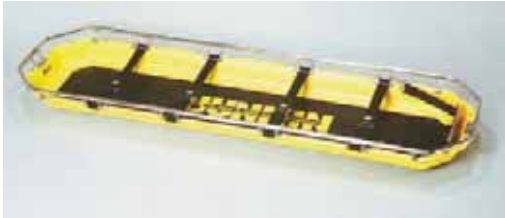
Part #	Description
AMU252-102	Ambu® Res-Cue Mask™
AMU252-115	Ambu® First Responder Kit

Part #	Description
AMU248-201-104	Ambu® Res-Cue Key®



BASKET TYPE STRETCHERS

Junkin pioneered the development of the Splint Type-Basket Stretcher which led to the outstanding Series 300 Stretchers, the most efficient and practical products of their kind on the market. Made of steel, all welded rigid construction which does not rely on injured person to attain form or rigidity. Light in weight and ample in size. Available in six models with supplemental accessories to facilitate special handling needs.



JUKJSA-200 Plastic Stretcher

Yellow high-density polyethylene shell, supported by a stainless steel outer rail, permanently attached with stainless steel semi-tubular rivets. Features molded runners, fully exposed outer rail, non-absorbent foam pad secured to stretcher and four patient restraint straps. Ideal for unusually rugged rescue situations such as industrial, mining or construction. Patent Pending.
DIMENSIONS: 84¹/₂" L; 24" W; 7¹/₂"



JUKJSA-300-B Break Away Stretcher

Designed to rescue injured persons from locations where lengthy foot travel is mandatory. The stretcher breaks into two halves which can be backpacked to the point of rescue and assembled in seconds. It can be secured to a standard backpack for carrying. Three positive lock clamps secure two halves together. Four 60" web straps are standard. Stores in space 44" x 12" x 24".



JUKJSA-300 Lightweight Basket Type Stretcher

Nylon web straps at chest, abdomen, thigh, and calf. Adjustable footrests for vertical lifting. Frame is 5/8" steel tubing; cross braces and runners 3/16" x 3/4" flat steel. Basket is 18 gauge, 1" hexagon mesh netting.
DIMENSIONS: 80¹/₂" L; 8" H



JUKJSA-603 Easy-Fold Plain Stretcher

Made of 1" sturdy anodized aluminum tubing frame with flush folding hinges. Cover is fabricated from tough 18 oz. green vinyl coated nylon. Cover is fungus and rot resistant, and easily wiped clean. 2" wide patient restraint straps with automotive seatbelt-type buckles are standard equipment.
DIMENSIONS: Open: 74" L x 1¹/₄" H, Folded: 36¹/₂" L x 2³/₄" H

Sked Basic Rescue System

The Sked Basic Rescue System is the best solution for confined space, high-angle, and technical rescue. Providing outstanding patient protection and security, the Sked stretcher comes equipped with lift slings for both horizontal and vertical hoisting.

Sked Basic Rescue System



Part #	Description
MSASRSSK-200	Sked Basic Rescue System, International orange

SAM® Splint

The SAM® Splint is suited for both adults and children, and can immobilize almost any bone in the body, including the neck. It is easy to use and comes with illustrated step-by-step instructions. A training video or CD is also available.

- The SAM® Splint is lightweight, weighing only 4 oz. and may be rolled or folded for easy storage in emergency kits or back packs.
- The SAM® Splint requires no extra equipment. It will not puncture and is not affected by extreme temperature or altitude.
- The SAM® Splint is waterproof. It is easily cleaned and disinfected with protocol cleaning solutions.
- SAM® Splint is radiolucent and does not have to be removed for x-ray.
- SAM® Splints are 4¹/₄" wide except for the finger splint which is 1³/₄" x 4".



Part #	Description
SEA1121	SAM® Splint 36 inch (standard), orange/blue, rolled, with instruction sheet
SEA1121F	SAM® Splint 36 inch (standard), orange/blue, flat, with instruction sheet
SEA1109	SAM® Splint 36 inch (standard), gray, rolled, with instruction sheet
SEA1109F	SAM® Splint 36 inch (standard), gray, flat, with instruction sheet
SEA1410	SAM® Splint 18 inch (junior), orange/blue
SEA1412	SAM® Splint 18 inch (junior), gray
SEA1005	SAM® Splint 9 inch (wrist), orange/blue
SEA1007	SAM® Splint 9 inch (wrist), gray
SEA1213	SAM® Splint Finger splint, orange/blue
SEA1208	SAM® Splint Finger splint, 1 ³ / ₄ " x 4", gray



TRANSFERCARE PROTECTORS, INC. Heavy Duty Crime Scene & Recovery Bags

- Black, 20 mil., Adult-sized Post Mortem bag.
- Bag is 36" x 90" with 2-way curved zippers which can be locked for evidence (lock not included).
- Heat sealed around the perimeter for additional strength and safety.
- Complies with OSHA standards #3130 containment of bio-hazardous waste & blood borne pathogens.
- Manufactured with 6 ultra strong handles one on each corner & one on each side in the middle for easier transfers.
- Lifting capacity of this bag is 400 lbs. Will not deteriorate under normal conditions.



Part #	Description
TFCBODYBAG	Heavy Duty Crime Scene and Recovery Bag, adult

AVITAR

ORAL•screen™ Drug Test

ORAL•screen™ is the first rapid on-site oral fluid screening device for drugs of abuse testing. ORALscreen uses Avitar's proprietary polyurethane and oral fluid technology to detect up to four classes of drugs of abuse (opiates, marijuana, cocaine, and methamphetamine - including MDMA/Ecstasy).

ORALscreen is becoming the drug test of choice among many customers in key corporate and public safety markets for several compelling reasons: it takes only fifteen minutes to obtain accurate results and is highly cost-effective; it is less invasive than urine- or blood-based testing; it eliminates the indignities, off-site handling and chain of custody concerns associated with urine testing; and, as an oral fluid-based product, it is preferred by users and test administrators alike over both urine- and blood-based tests.



BreathScan™ Alcohol Screening Test

BreathScan™ is an effective and accurate way to screen for the presence of alcohol at specific breath points. BreathScan has been proven to be extremely accurate at determining no alcohol in blood, a BAC level above 0.02%, and a BAC level greater than 0.10%. Recommended for on-site qualitative testing whenever alcohol consumption or intoxication is suspected. Small disposable device has a virtually unlimited shelf-life for cost effective use at multiple sites. Provides easy to interpret qualitative results (via color change) in 2 minutes. Has 3 cut-off levels (.02, .08, .10 BAC) available for a variety of applications.

Part #	Description
AVIOS02-1	Avitar Oral Screen Drug Test
AVIBS02-1	BreathScan Alcohol Screening Test

IOSAT™ FOR PROTECTION IN A RADIATION EMERGENCY

IOSAT™ [potassium iodide] is an FDA approved radiation protective, thyroid blocking, product sold to the general public. IOSAT™ meets all FDA requirements for potassium iodide as a radiation protective, and is labeled and packaged in accordance with US government guidelines. IOSAT™ has demonstrated all quality controls and passed all FDA requirements for purity, quality, safety, and efficacy. Comes full strength (130 mg. of potassium iodide per tablet) in accordance with FDA demands for complete thyroid blocking. Contains no potassium iodate or other adulterants. Contains only pure potassium iodide as the active ingredient. IOSAT™ [potassium iodide] is manufactured in the United States under strict FDA "GMP guidelines," and holds an approved "New Drug Application" (NDA). 14 tablets per package of IOSAT™ Potassium Iodide Tablets.



Part #	Description
IOSAT	Potassium iodid tablets

PETT®

The PETT® compact dry toilet system provides a sanitary and odorless method for packing out and disposing of both liquid and solid waste. The system utilizes a degradable waste bag that inserts into the unit. Each bag contains a bioactive powder which instantly gels the waste, eliminates odors and begins breaking down the waste on contact. Once sealed, the bag and its contents may be safely disposed of with conventional trash. The bag system meets EPA Group II waste disposal standards.

Users of the system include FEMA, the F.B.I., United Nations and Armed Forces.



The PETT® (Portable Environmental Toilet)

- Sets up in seconds
- Three-leg design for uneven terrain
- No assembly required
- Removable lid (Second lid available)
- Compact, 19" x 14" x 5"



The WAG™ Bag Kit (Waste Alleviation & Gelling)

- Double-bag system, puncture resistant material with zip-closure
- Each waste bag is pre-loaded with non-toxic Pooh-Powder™
- Kit includes toilet paper and hand sanitizer
- WAG™ Bag kits are sold in cases of 12 or 100



The PUP (Portable Utility Pop-Up Tent)

- 3 windows with screens & flap enclosures
- Stands 6' 6" tall, base 4' x 4', 6 lbs.
- Hinged poles, no assembly
- Zip close door, flap for shower
- Open floor for sanitary reasons
- Inside storage pocket



Part #	Description
PHI119PET	PETT™ Portable Environmental Toilet
PHI019W12	PETT™ WAG™ Bag Kit, case of 12
PHI007W00	PETT™ WAG™ Bag Kit, case of 100
PHID117PUP	PETT™ PUP™ Portable Utility Pop-Up Tent

Quick Response Holster Set

The Quick Response Holster Set features our newest Response Holster. Now available in camouflage, olive drab and black, it provides ample room for not only instruments and small rescue tools, but also for a stethoscope or CPR mask (see page 83). It includes a front pocket for holding your medical gloves. It is made of water repellent 1000D nylon cordura with two side pockets made of ballistic nylon cordura. The Emergency Response Holster features a quick release velcro type belt loop for easy attachment and removal from belts, gurneys, kits, etc. It fits belts up to 2 1/4" wide and measures 8 1/2" x 4" x 1 1/2". Weighs 3 oz.



The Quick Response Holster Set:

- Quick Response Holster
- Dual Head Stethoscope
- Camouflage Seat/Belt/Webbing Cutter
- Brite-Light™ Penlight (with Batteries)
- Deluxe EMS Shears
- 5 1/2" Bandage Scissors (black)
- 5 1/2" Straight Kelly Forcep (black)
- Eleven in 1 Pocket Tool.

Part #	Description
EMIM810	Quick Response Holster Set (Camouflage)
EMIM811	Quick Response Holster Set (Olive Drab)
EMIM812	Quick Response Holster Set (Black)

Commando Response™ Bags, Fanny Packs

Commando Response™ Bags

The Commando Response™ Bag features easy access, durability and storage. Flap top with Delrin buckles allows for quick access. It has a padded 3 section main compartment, two wing pouches and dual front pockets with hook and loop closures. Comes complete with a rifle sling style strap with reinforced steel rings and hooks. Size: 17"L x 7"W x 10"D. (contents not included)



Part #	Description
EMIM821	Commando Response™ Bag (Olive Drab)
EMIM820	Commando Response™ Bag (Camouflage)
EMIM822	Commando Response™ Bag (Black)

Fanny Pack

The Fanny Pack can carry your personal protective equipment or your basic response supplies. Made of 1000 Denier cordura, the Fanny Pack has two main compartments with two outside pockets. The adjustable nylon webbing belt can fit 20" to 54" waists and has a quick-release buckle. Ideal for hands-free response. It measures 10"L X 6"H X 5"D. (contents not included)

Part #	Description
EMIM824	Fanny Pack (Olive Drab)
EMIM823	Fanny Pack (Camouflage)
EMIM825	Fanny Pack (Black)



EMI EMERGENCY MEDICAL INSTRUMENT CO.

Nite-Writer™ II Pens

The Nite-Writer™ II Pen is EMI's latest addition to its Nite-Writer™ Series of pens. The Nite-Writer™ II Pen has features similar to the original except more economically priced! The Nite-Writer™ II features a push button top for activation.

- Clear protective cap so that pen can be used as a penlight.
- Textured rubber grip barrel.
- Comes in either white or black.
- Writes in black ink.
- Approximately 5 1/2" length x 5/8" diameter.



Part #	Description
EMI243	Nite-Writer™ II Pen, white
EMI244	Nite-Writer™ II Pen, black

Standard Window Punch

(With or without pocket clip) features dependable punching power.

- Light weight corrosion resistant aluminum barrel with knurled finish.
- Approximately 5" length x 5/8" diameter.
- Comes with or without pocket clip.



Part #	Description
EMI1066	Standard Window Punch with pocket clip
EMI1076	Standard Window Punch without pocket clip

Lifesaver™ Seat Belt Cutter

Lifesaver™ Seat Belt Cutter features hard impact plastic.

- Cuts through seat belt and other material quickly, easily and safely.
- Cuts through seat belts 100 times faster than scissors.
- Hardened stainless steel blade.
- Approximately 4 3/4" x 1 3/4".
- Used by all rescue personnel.



Part #	Description
EMI4000	Lifesaver™ Seat Belt Cutter

11-IN-1 Rescue Tool

11-IN-1 Rescue Tool features 11 tools in one.

- It weighs approximately 5 ounces yet is only 4" long.
- Made of hardened stainless steel.
- Lifetime warranty.
- Tool includes pliers, wire cutters, bottle opener, file, Philips screwdriver, 3 slotted screwdriver, large and small cutting blades, and can opener.
- Comes complete with leather type belt pouch.



Part #	Description
EMI8448	11-IN-1 Rescue Tool

Lifesaver Hammer™ Deluxe

Lifesaver Hammer™ features a combination seat belt cutter and window shattering tool. One side of hammer head strikes window glass to shatter. The other forged head is useful to remove glass. Both heads are dropped forged steel with a contoured handle and a built-in light to illuminate the rescue area. Combination mounting kit: screws for permanent mount and needle prongs for temporary carpet mount or adhesive mount. Made of strong high-impact plastic. Approximately 9" long and weighs 10 oz.

Part #	Description
EMI9000	Lifesaver Hammer™ Deluxe



EMI EMERGENCY MEDICAL INSTRUMENT CO.



RESCUE EQUIPMENT

Rescue equipment and descent devices are needed for fall arrest, work positioning, rescue retrieval, and evacuation during Homeland Security activities.

FP Tactical Harness

The FP Tactical Harness features easy donning and doffing, snug adjustments yet great comfort, wide sub-pelvic support for comfortable suspension, tongue-buckle leg straps and a waist-level rescue loop for controlled upright and inverted descents. It is made with black webbing to decrease visibility and vinyl-coated hardware to deaden sound.

Gravity™ Rigger/Rescue Harness

The Gravity™ Rigger/Rescue Harness is a full body harness that allows the user a high degree of comfort while in the sit position. It is suitable for rappelling all controlled descent, positioning, rescue and fall arrest.

Part #	Description
MSA10021371	FP Tactical Harness, black webbing, vinyl-coated hardware, standard size
MSASSH60930001	Gravity™ Rigger/Rescue Harness, black poly webbing, cross-over design
MSA10013403	Vulcan™ Rescue Harness, standard size

RESCUE LADDERS

Aluminum rung ladders with 1" nylon straps. Applications include: confined space access, theatrical stage rigging, mine access, and many others. Used to access levels at heights or for confined space applications. Applicable OSHA and ANSI standards. Our steel cable ladder meets and exceeds the ESTA (Entertainment Services and Technology Association).

With 2 small loops at one end:		With 2 ladder snaphooks at one end:	
Part #	Length	Part #	Length
MSA415019	10'	MSA415036	10'
MSA415020	12'	MSA415917	12'
MSA415021	15'	MSA415918	15'
MSA415906	16'	MSA415919	16'
MSA415907	18'	MSA415920	18'
MSA415022	20'	MSA415037	20'
MSA415023	25'	MSA415921	25'
MSA415024	30'	MSA10002430	27'
MSA415908	36'	MSA415038	30'
MSA415025	40'	MSA415922	36'
MSA415909	45'	MSA415923	40'
MSA415026	50'	MSA415924	45'
MSA10004920	60'	MSA415925	50'
MSA415910	80'	MSA10003249	60'
MSA415027	100'	MSA415926	80'
		MSA415927	100'

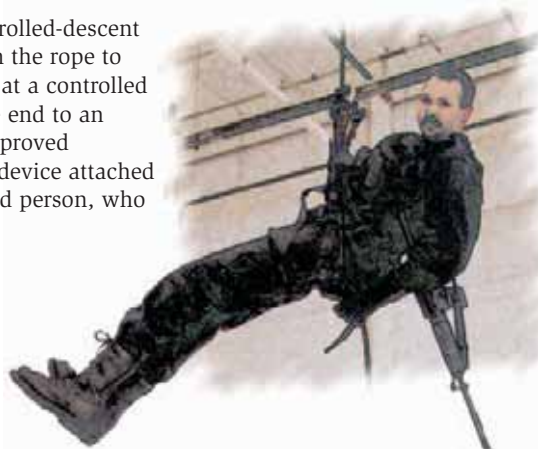




A

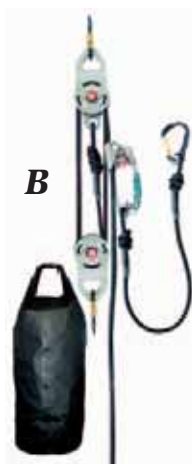
Anthrone Descender (A)

The Anthrone Descender is a manually operated controlled-descent device with a cam assembly that provides friction on the rope to hold a load of 300 lbs., or allow the load to descend at a controlled rate. Usually, the Anthrone operator attaches the rope end to an approved anchor and descends, suspended, in an approved harness. The Anthrone can also be inverted with the device attached to the anchor and the rope end attached to an injured person, who can thus be lowered via rescuer's control.



Suretyman™ (B)

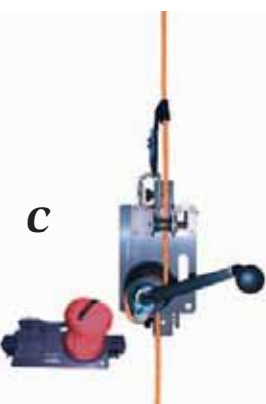
The Suretyman™ Rescue Utility System incorporates all the features professionals expect in a first-class rescue system. Compact and lightweight (17 lbs.), it is primarily used for raising and lowering people or equipment in rescue operations, including confined spaces.



B

Sky Hook Hoist/System (C)

The Sky Hook Hoist/System simplifies confined space and remote rescues that require a device with lifting and lowering capability. The heart of the system is a two-speed self-tailing manual winch with a removable handle, which is mounted to a versatile base plate. This hoist uses any length of standard 1/2" static kernmantle rope and can lift a maximum of 600 lbs. Users can remove/replace the load rope and change to a second rope, minimizing time and equipment to duplicate the job.



C

Confined Space/Head First Extraction System (D)

Confined Space/Head First Extraction System is a specialized rescue product for rescuers who must be lowered head first into a confined space to perform a rescue. The small, compact system allows the rescuer to be lowered comfortably, harness the victim, and raise both victim and rescuer out of the confined space.

FP Rescue Components (E)

FP rescue components comprise hardware descenders, carabiners, pulleys, rigging plates and ropes. Suretyman™ Rescue Figure Eight and RQ3 Q-Eight hardware descenders, MSA Rescue and Fireman Hook Carabiners, Rescue™ Pulleys, Static Kernmantle Ropes, and Prusik and Accessory Cords are designed to meet the rigorous standards of professional rescue and police tactical operations.



D



E

Part #	Description
MSASDC726-050	(A) Anthrone System with Anthrone descender, 2 carabiners, 50' rope
MSASDC726-100	(A) Anthrone System with Anthrone descender, 2 carabiners, 100' rope
MSASDC726-150	(A) Anthrone System with Anthrone descender, 2 carabiners, 150' rope
MSASRS15-200	(B) Suretyman™ Rescue utility system, 200' length
MSASRSF5077	(E) Suretyman™ Rescue figure eight, steel
MSASRSF5045	(E) Suretyman™ RQ3 Q-eight aluminum
MSASRS071	(C) Sky Hook Hoist/System with capstan protective cover
MSASRS3100	(D) Confined Space/Head First Extraction System
MSASRCC642	(E) MSA Rescue Carabiner, 2" gate, steel, auto-locking
MSASRCC307	(E) Fireman Hook Carabiner, 2" gate, steel, auto-locking



(A) Belay System Kit

(B) The Raising / Lowering System

MSA's Basic High-Angle Rescue Kits are used by firefighters in high-angle rescue operations. A complete high-angle rescue system consists of a Belay System Kit and a Raising/Lowering System Kit. The Belay System Kit includes rescue carabiners, rope, accessory cords, and an anchorage sling in a storage bag. The Raising/ Lowering System includes carabiners, rigging plate, rope, accessory cords, pulleys, brake bar rack, and an anchorage sling in a storage bag.

Part #	Description
MSA10030023	(A) Belay System kit, basic high-angle rescue
MSA10030024	(B) Raising/Lowering System kit



DBI8304000
Winch/SRL/tripod
Combination



DBI8302050
Davit Arm and base with
Salalift® winch



RESCUE SYSTEMS

For utmost confidence, DBI/SALA's packaged rescue systems are a perfect rescue/retrieval safety system solution. You can go onto the job knowing that your equipment is ready to go; totally compatible and built with DBI/SALA quality.

- Lightweight, portable confined space entry system.
- Salalift® winch with 60 ft. of 1/4" galvanized cable (8101000) and carrying bag.
- Back-up sealed self-retracting lifeline with emergency retrieval and 50 ft. 3/16" galvanized cable (3400115), mounting bracket (3401065) and carrying bag.
- 7 ft. aluminum tripod (800000).
- Legmount pulley (8003238).
- Tripod mounting base (8005048).
- Versatile alternative when a tripod is unfeasible.
- Davit arm with portable base (8002032).
- Winch with 60 ft. 1/4" galvanized cable (8101000).
- Winch bag.

Similar Models:

- DBI8302060: with SalaLift® II winch only
- DBI8303030: with sealed SRL only

Similar Models:

- DBI8300001: Tripod and winch only
- DBI8301000: Tripod and SRL only
- DBI5304010: Tripod, SRL, and Salalift® II winch (8102001)



Emergency Response Kits

EMERGENCY RESPONSE KITS

Let us custom design and build your kit with the items you need or you can choose from our stock kits. Kits can be packaged in roll/duffel bags or in large containers for mass distribution.

Here is just a sampling of items that we carry that can be included in your own Custom Emergency Kit.

Medical

First aid kits and supplies
Disposable blankets
CPR masks and cervical collars
Disposable resuscitators

Alert Systems

Air horns
Whistles



Personal Protection Equipment

Nuclear/Biological/Chemical escape hoods
Disposable Protective Apparel
Smoke only escape hoods
Fire Extinguishers
Safety Glasses
Fire Blankets
Dust Masks
Safety vests
Hard Hats
Rain suits
Goggles
Gloves
Boots

Food/Water

3 day food bars with 5 year shelf life.
Purified drinking water with 5 year shelf life

Tools

Crow bars, pry bars
Pliers, wrenches
Leatherman sets
Sledge hammers
Demolition tools
Hammers
Bolt cutters
Hacksaws
Screwdrivers
Shovels
Scissors
Rope
Axes

Lighting

Safety flashlights
Light sticks with duration times up to 12 hrs.
Lanterns
Batteries

Other support supplies

Duct Tape
Caution tape
Trash bags
Tie Wire
Biohazard bags

Emergency Response Kits

EMERGENCY RESPONSE KITS

Our kits are designed for your particular needs. These kits are ideal for office, school or industrial settings. Kits are designed to fit in your particular workstation or desk. We can also customize a kit for your needs!

Basic Emergency Response Kit

Duffel bag filled with:

- Particulate and blood borne pathogen suit
- 2 liters of water with a 5 yr. shelf life
- Nitrile gloves
- Food bars (3 day supply)
- P-100 particulate respirator
- Chemical splash goggles
- Light stick
- Brass whistle
- AM/FM radio with earphone and batteries
- Spiral notepad
- Pencil



Premium Emergency Response Kit

Duffel bag filled with:

- Chemical protective suit
- Butyl gloves
- 2 liters of water with a 5 yr. shelf life
- Food bars (3 day supply)
- Chem-Bio escape hood
- Flashlight & batteries
- Brass whistle
- AM/FM radio with earphone and batteries
- Spiral notepad
- Pencil
- Duct tape



Industrial Emergency Escape/Response Kit

DESIGNED FOR 10 PEOPLE

Large Rubbermaid wheeled container with:

- Chem-Bio escape hoods
- Particulate and blood borne pathogen suits
- Particulate respirators
- Purified drinking water
- First aid kit
- Lightsticks
- Gloves
- Goggles
- Disposable blankets
- Crowbars
- Bolt cutters
- Food bars



Office Emergency Escape/Response Kit

Duffel bag filled with:

- Chem-Bio escape hood
- Saranex chemical protective coveralls
- Hazmat boots
- Butyl gloves
- Light stick
- Whistle
- First Aid kit



Personal Emergency Escape/Response Kits

Duffel bag filled with:

- Hard hat
- Goggles
- Gloves
- Particulate respirator
- Particulate & blood borne pathogen protective suit
- Whistle
- Space blanket
- Purified Water pack with 5 yr. shelf life.



School Emergency Escape/Response Kit

Bag filled with:

- Smoke only escape hood
- Light stick
- Whistle
- Disposable blanket
- Food bar and water pouches with 5 yr. shelf life



Part #	Description
ABXKIT-PEE	Personal Emergency Escape/Response Kit
ABXKIT-IEE	Industrial Emergency Escape/Response Kit, 10 person
ABXKIT-SEE	School Emergency Escape/Response Kit
ABXKIT-OEE	Office Emergency Escape/Response Kit
ABX-ERK-BASV	Basic Emergency Response Kit
ABX-ERK-PREMIUM	Premium Emergency Response Kit

Emergency Response Kits

Pyro Shield Fire Blanket

The first truly affordable fire blanket, an innovative yet simple solution to prevent the ravages of fire. This fire blanket can extinguish flames at the early stages of fire preventing thousands of dollars of damage and down time caused by water or Halon. Can also serve as a protective shield during escape. It has an unlimited shelf life – never requires maintenance. It is quick, simple and safe to deploy and is temperature rated in excess of 1,400°F. Available to you with or without the wall mount case.



Part #	Description
PYSPB	Fire Blanket, 48" x 48" (blanket only)
PYSPBC	Fire Blanket, 48" x 48" with wall-mount canister

The Emergency Blanket

Provides emergency protection in all weather conditions. Made of a durable, insulating mylar material that reflects 90% of body heat. Evolved from use in space exploration. This reusable thermal blanket is waterproof and wind proof.

- Blanket measures 52" x 84"
- Comes packed in a 5" x 3" sealed poly-bag for compact storage.



Part #	Description
AQBSPACE-BLANKET	Emergency Blanket

Disposable Emergency Blanket

Used by Police, Fire, Emergency and Rescue Units along with Industrial Safety.

This disposable emergency blanket is heavy duty and resists mildew and infestation. Constructed with a layer of heavy duty film laminated over a layer of urethane foam. Each blanket is high visibility yellow and comes individually packaged in a sealed plastic bag.

- Insulating: Helps to retain body heat and to protect the body from cold weather. The foam will absorb and hold excess body fluids.
- Waterproof: Will keep the rain and snow away from the body. Excess body fluids held in the foam will not pass through the film.
- Disposable: Low cost and light weight. Use it once and discard. **NO CROSS CONTAMINATION.** Every time you reach for a blanket, you can be sure that it is clean and ready for use.
- Convenient: Each blanket is individually packed in a poly bag which keeps it clean and ready for use.

For professional use only – Do not use near open flame.



Part #	Description	Size	Pack
USL5480	Disposable Emergency Blanket, yellow	54" x 80"	10/cs.
USL6090	Disposable Emergency Blanket, yellow	60" x 90"	10/cs.

Emergency Response Kits

EMERGENCY RATION FOOD PROVISIONS

The ER Bar™

3 Day Food Supply: Each 18 oz. packet contains six (6) 400 calorie rations, for a total of 2400 calories. Recommended consumption is 2 bars (800 calories) per day. 5 Year shelf life lowers replacement costs. Withstands temperatures of -22°F to 149°F. Safer than other food items such as granola bars, which have limited storage life. Contains 100% of most daily recommended vitamins and minerals. Absolutely NO cholesterol or tropical oils. Pleasant Lemon-Vanilla Flavor. Non-thirst provoking.



Part #	Description
AQBFOODBAR	ER Bar™

Aqua Blox® and Aqua Literz®

Having adequate clean water in the event of an emergency is one of the most important considerations in any disaster preparedness strategy. The safest and best way to store water is to have an aseptically packed (sterile & without microorganisms) water product which has a 5 year shelf-life. No water product can claim longer than 5 years, and have a military approval rating. The Aqua Blox brand is guaranteed to last 5 years, is aseptic, sterile, free from microorganisms, and military approved.



Aqua Blox® Specifications:

- Aqua Blox® Purified and commercially sterile drinking water packaged in individual units with straws.
- Case pack 27 individual units packed in shrink-wrapped cardboard case. Straw included with each unit.
- Individual unit size 4 1/4" high x 2 1/2" wide x 1 5/8" deep.
- Unit contents 8.45 Oz. (250 ml) drinking water.
- Case contents 1.8 gallons water per case.

Aqua Literz® Specifications:

- Aqua Literz® Purified and commercially sterile drinking water.
- Case pack 12 individual units packed in shrink-wrapped cardboard case.
- Individual unit size 6 1/2" high x 3 3/4" wide x 2 1/2" deep.
- Unit contents 33.8 oz. (1 liter / 1000 ml) drinking water.
- Case contents 3.17 gallons water per case.



Part #	Description
AQB80001	Aqua Blox™, 8.45 oz.
AQB80002	Aqua Literz®, 1 liter

REDI-CHLOR CHLORINE TABLETS

According to World Health organization statistics, over ten million people die every year throughout the world from drinking biologically contaminated water. Redi Chlor tablets are comprised of dry chlorine that is both EPA registered and NSF approved for use in disinfecting drinking water. Chlorine is the method of choice for drinking water disinfection by 98% + of the municipalities and rural water districts in the United States. Redi Chlor tablets come in 2 sizes. The 1/10 gram tablet is designed to disinfect 2 gallons of water per tablet. The 1/4 gram tablet is designed to disinfect 5 gallons of water. Whether you use the 1/10 or 1/4 gram tablets, the recommended dosage as listed on the enclosed dosage chart is for a total chlorine dose of 9 ppm (parts per million) total available chlorine to the prescribed quantity of water.



Part #	Description
RDIWDT1/4	Redi-Chlor chlorine tablets, 1/4 gram tablets
RDIWDT1/10	Redi-Chlor chlorine tablets, 1/10 gram tablets

Emergency Planning & Reporting

ONE RESPONSE PLAN™

Complete Solution for Emergency Response Planning and Reporting

One Response Plan is the complete electronic emergency response planning and reporting solution that addresses the critical needs of both industry and emergency responders.

- Saves time, effort and resources in preparing complete plans and reports
- Satisfies existing federal/state/local emergency response planning and reporting requirements — non-compliance can result in significant fines
- Positioned to handle future planning and reporting requirements; incorporates industry best practices

One Response Plan dramatically simplifies compliance efforts by allowing companies to easily input and update information via a secure web connection. A menu driven application has information logically grouped with simplified checkbox or selection list entry whenever possible. Plans and reports required for compliance are easily created on-demand after information is entered or later updated.

One Response Plan incorporates all federal, state, and local planning and reporting requirements. Insurance application and risk assessment is simplified by filing complete reports based on accurate information. One Response is working with local and federal agencies on electronic information exchange initiatives to put vital information into the hands of responders — in a usable format.



Benefits:

- One-time data entry: input data once to receive multiple report outputs: NRT-One Plan, EPCRA Tier II, State & Local reports
- Simple to use: intuitive interface and checkbox data entry
- Secure: your data resides in secured databases with password protection and encrypted data communication
- Collaborative: more than one author may be assigned, and data is shared for review before submitting
- Web-based: work from any online computer using your internet
- Robust report generation: create powerful reports for internal review and publish the plans and reports that you need
- Easy updates: modify specific data elements without having to re-enter all data to create updated reports

Hazardous Materials Inventory Statement

Part A - Declaration

Business Name: Chemco Chemco - Arizona
 Address: 100 W. Chemco Ave, Phoenix, Arizona Maricopa 85040

Under penalty of perjury, I declare the above and subsequent information, provided as part of the hazardous materials inventory statement, is true and correct.

Signature: _____ Date: _____
 Print Name: _____ Title: _____
 (must be signed by owner/operator or designated representative)

Part B - Hazardous Materials Inventory Statement

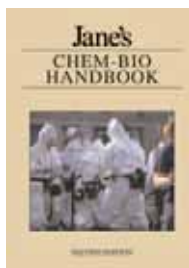
Chemco Building A Chemco Building A Chemco Building A											
Hazard Class	Name	Components and Concentrations	CAS Number	Physical State	Quantities on Hand	Units	Days on Site	Storage Code	SARA Class	Waste	
H: 4 F: 2 R: 0 S:	Ridgely 113	H2O Water 50%/Volume Hydrochloric Acid 50%/Volume	59-37-206	Mixture Liquid	Total	GA-Callo	365	E-Plastic and non-metallic drum 1-Ambient 4-Ambient			
					5,000	ns					
					Storage						
					Open System	5,000					
					Closed System						

JANE'S — the Premier information provider for government and corporate risk and security. Now you can order Jane's publications from PowerPlus

Jane's Chem-Bio Handbook - Second Edition

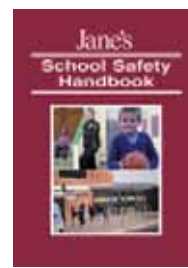
Pocket sized guide for first responders

Equip your first responders with this essential guide to the critical response requirements of a chem-bio attack. Invaluable for those first on the scene, this expert guide provides recognition information on the agents and delivery mechanisms, plus full management checklists to ensure you have all the information you need to quickly and effectively contain the risk.



Jane's School Safety Handbook

The practical guide to school safety for education professionals and first responders with expert information offered from the leading authorities in school safety and security. Jane's now offers a comprehensive and practical guide to assist teachers, school administrators and other agencies prepare and respond to security incidents in schools. This handbook provides procedural guidelines that can be posted throughout schools, distributed among appropriate personnel, and used by first responders to ensure the safest environment for everyone involved in school safety.



Contents include:

- On-scene procedures for emergency response personnel
- Checklists for rapid response
- Triage and casualty management
- Chemical-biological agent descriptions and effects
- Chemical-biological agent delivery systems and methods
- Management of biological casualties
- Meteorological conditions
- Chem-bio case studies

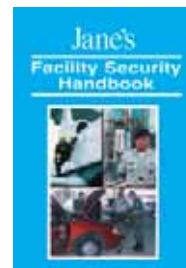
Jane's Unconventional Weapons Response Handbook

This handbook provides first responders with the essential information they need to recognize and respond to the terrorist and criminal use of unconventional weapons. The detailed checklists and procedures enable responders to plan for, respond to and recover from incidents involving unconventional threats whether radiological dirty bombs, pipe bombs, vehicle bombs, surface-to-air missiles, nuclear devices or directed energy weapons.



Jane's Workplace Security Handbook

Every employer has a responsibility to its employees, customers and shareholders to provide a secure working environment and to respond effectively and safely to security threats, whether violence in the workplace or terrorist attack. The Jane's Workplace Security Handbook provides essential information on planning for, responding to and recovering from security threats and incidents that can affect an organization and its employees.



Jane's Mass Casualty Handbook for Hospitals

The Jane's Mass Casualty Handbook provides essential information for emergency response personnel preparing for, responding to and recovering from mass casualty incidents. This handbook is designed for physicians, nurses and other hospital-based personnel responding to mass casualty incidents, whether chemical, biological, nuclear or a major natural disaster



Part #	Description
JANES-CHM-BIO	Jane's Chem-Bio Handbook, second edition
JANES-SCHOOL-SAFE	Jane's School Safety Handbook
JANES-UNCOV-WEAP	Jane's Unconventional Weapons Handbook
JANES-WORK-SEC	Jane's Workplace Security Handbook
JANES-MASS-CAS	Jane's Mass Casualty Handbook for Hospitals

Be sure to review the PowerPlus Training and Consulting section of this catalog for up-to-date courses offered by our professional staff on workplace and homeland security issues.

Training & Consulting



PowerPlus TRAINING SEMINARS & CONSULTING SERVICES



The PowerPlus Training and Consulting Staff

The PowerPlus team of instructors and consultants is an array of personnel that are fully trained and accredited to deliver your seminar or consulting dialog in a clear, concise, and professional manner. The team has over 125 years of combined experience which has come from service in the following roles:

- Tactical Unit Command
- Criminal Intelligence
- Dignitary Protection
- Intelligence Investigations
- Counter-Terrorism Response
- Terrorism Task Force
- Hazardous Material Response Unit
- Advanced Fire Fighter Instruction
- Weapons of Mass Destruction (WMD) specialist and instructor certified by U.S. Justice Department.
- Grant writing

Members of our team include former FBI agents, current tactical police personnel, along with firefighters and industrial workers from across the country. For your convenience training is held either at your site or at a location of your choice.

Training Courses and Consulting Services Offered

Violence in the Workplace

Violence in the workplace is a reality in corporate America. Companies across America are training and preparing their employees to deal with this challenge.

Course Overview:

- Trends
- Case studies
- Planning
- Prevention
- Warning signs
- Practical applications
- Addressing an incident

Target Audience: This course is designed as an awareness course and is broad in scope. It will encourage and facilitate communication within an organization. Employees at each level in the organization will benefit from this seminar. Emphasis is given to managers and supervisors.

Course duration: One hour

Facilitated First Responder Discussion Group

An event occurs, perhaps a mass causality or a terrorism event, and local and federal agencies respond. Has the groundwork been established for an effective and efficient response? Do all responders understand the procedures of other agencies? Have all necessary agencies been involved in preparing for an incident?

Course overview:

- Potential responders are identified in a jurisdiction.
- A scenario is provided and all participants discuss their responsibilities in the given scenario.
- Participants, with assistance of the facilitator, will identify areas of possible conflict or duplication of effort between agencies.
- Guidelines of response will be discussed for future events and conflicts mitigated.

Target Audience: First responders from police and fire should be the core of the group. However, federal agencies must also be involved since they will arrive on the scenes of applicable events and may even arrive as a first responder.

Course duration: 1-2 hours depending on participation of the group

Training & Consulting



PowerPlus TRAINING SEMINARS & CONSULTING SERVICES



Pre-incident Coordination

Effective communication is vital to an efficient, timely, and controlled response in the case of a terrorist or crisis situation.

Course overview:

- When critical intelligence is received, who is notified and in what order?
- Do federal agencies have a local police counterpart?
- Does the counterpart have a federal clearance?
- Is there communication between fire and police personnel?
- Is a terrorism response plan in existence?
- Is mutual aid available?

While these questions can only be answered by the involved jurisdiction, they and others must be answered. While every jurisdiction is designed differently, all have some common features. If a jurisdiction waits until hard intelligence is received to work out notification procedures, it is too late!

An experienced professional with a significant background in Intelligence, SWAT, and Federal Terrorism Investigations, will consult with key persons in a jurisdiction to work through the communication process.

Site Surveys

Regular and consistent review of facility security is crucial in providing a safe work environment for employees and the organization as a whole. Experienced agents are available to review and evaluate present security readiness and to make recommendations to enhance or modify facility security.

WMD Awareness Level

Weapons of Mass Destruction can change the nature of an emergency. They change the rules of response. Intelligence and knowledge will directly affect your ability to understand the event and thus instill safety. Safety is more than just a word... it is a life-saving attitude you must obtain!

Course Overview:

- Understanding, identification, recognition of WMD agents and risks.
- Use of the U.S. DOT Emergency Response Guidebook.
- Site safety and control.
- Review of a strike team operational organization.
- Applicable emergency response plans.

Target Audience: This training course is designed for individuals who are likely to witness or discover a WMD incident. These members will be trained to initiate an emergency response sequence based on their findings and to notify the proper authorities.

Course Duration: Eight (8) hours

WMD Operations Level

America had a bitter taste of terrorism in the fall of 2001. Experts agree a potential deadly hazard looms on the horizon as terrorists begin to employ Weapons of Mass Destruction. Some 850,000 industrial sites across our country manufacture chemical substances of one form or another, which can be used as WMD agents. Do you possess the skills, knowledge, experience, and judgment to perform safely in this arena?

Course Overview:

- Understanding, identification, recognition of WMD agents and risks.
- Use of the U.S. DOT Emergency Response Guidebook.
- Site safety and control.
- Basic hazard and risk assessment techniques.
- Selection and proper use of personal protection ensembles for the WMD operational level.
- Basic decontamination procedures.
- Relevant standard operating procedures and termination procedures.

Target Audience: This training course is designed for individuals who respond to the release, or potential release of WMD agents with the purpose of protecting nearby persons, property, or the environment from the effects of such a release. Emphasis is placed on defensive operations to contain, isolate, and prevent exposures from a safe distance. **Course Duration: Eight (8) Hours**



Training & Consulting



PowerPlus TRAINING SEMINARS & CONSULTING SERVICES



WMD Incident Commander

The management functions needed at a WMD terrorism event are no different from those activities necessary to manage a hazardous waste site, a car accident, or a major medical operation. Simply put, you must have a system of decision-making guidelines to obtain a favorable resolution.

Course Overview:

- Awareness level training.
- Operations level training.
- Site safety and management control.
- Evaluating hazards and risks.
- Decision making in emergencies.
- Developing a plan of operation.
- Implementing response objectives.
- Overview of incident command system sectors.

Target Audience: This course is designed for individuals who may be required to take command at WMD terrorism event, particularly at the early stages of the incident. The program develops knowledge and skills in the areas of risk assessment, management of basic tasks at hazardous materials incidents, and application of an incident management system.

Course Duration: *Twenty-four (24) hours*

WMD Incident Commander Refresher

An incident commander must make difficult decisions that can have a major impact on responders and the community. To manage the WMD incident effectively and coordinate all resources, it is imperative to remain up-to-date on current trends and basic concepts that apply to establishing an incident management system.

Target Audience: This training course is designed for individuals who have previously obtained the OSHA Incident Commander Level Training requirements. (This includes 24 hours of documented training equal to the First Responder/Operations Level and competency in the following areas: Implementing local, state, and regional plans; Hazard sector operations; Decontamination.) This course will satisfy the annual refresher requirement as specified by OSHA 1910.120.

Course Duration: *Four (4) hours*

WMD Technician Level I

Events over the past few years have shown that terrorists, foreign and domestic, are willing to attack American interests at home and abroad. Terrorists now have access to a broad array of advanced technologies and lethal materials worldwide. Domestic terrorism can strike any target at any time. Do you know how to deal with Weapons of Mass Destruction? Are you prepared?

Course Overview:

- Chemical and toxicological terminology and behaviors.
- Selection and proper use of specialized personal protective equipment (PPE).
- Classification, identification, and verification of WMD agents.
- Understanding hazard and risk assessment techniques.
- Advance control, containment and/or confinement operations.
- Decontamination techniques.
- Incident termination.

Target Audience: This training course is designed for responders mitigating the discharging of a WMD agent. These members assume a more aggressive role at the point of release in order to plug, patch, or stop the discharge of a hazardous substance or WMD agent.

Course Duration: *Twenty-four (24) hours*

Training & Consulting



PowerPlus TRAINING SEMINARS & CONSULTING SERVICES



WMD Technician Level II

This course builds upon the material presented in the WMD Technician I class. Participants in this module will learn further details of handling weapons of mass destruction. As our world changes in dramatic fashion, it is imperative that WMD technicians gain this incremental learning.

Course Overview:

- Applicable legislation and functional compliance
- Basic chemistry and chemical terminology
- Toxicology
- Hierarchy of dangerous situations
- Information sources, guidebooks, and databases
- Identification and recognition of WMD agents
- Site plans, preplanning
- Hazardous materials placards and labels
- Detection and identification instruments
- Container identification and handling
- Incident command system
- Respiratory and chemical protective clothing (CPC)
- Control and confinement operations
- Medical surveillance
- Decontamination procedures
- Records, reports, and termination procedures
- Hands-On workshops/skills

Target Audience: This course is designed to provide emergency responders technician level instruction on responding to and operating in a WMD environment. Instruction involves both classroom and hands-on activities for individuals who desire an initial 8-hour refresher incorporated into in-depth training modules, hands-on workshops, and skills testing. The information relayed will give the WMD Technician a more directed and specific knowledge base of the various substances they may be called upon to contain.

Course Duration: *Forty (40) hours*

Grant Acquisition

The federal government has made funds available to cities across the United States to develop and enhance first responder capabilities and equipment. Consultants are available to assist cities in locating, writing, and applying for grants. Municipalities should not miss the opportunity to participate in the nationwide efforts and opportunities of Home Security and Domestic Preparedness.

Consulting Services

Consultants are available to assist clients in evaluating current capabilities or future needs, equipment recommendations, and any issue that may be a factor in the response, management or operation of a law enforcement, fire, or safety and security unit. These consultants have gained practical experience in a major city setting confronted by many challenges that police and fire personnel must face in a large city.

Water Assessment Services

On June 12, 2002, the Public Health Security and Bioterrorism Preparedness and Response Act was signed into law by President Bush. As a result of this Act, water systems serving a population greater than 3,300 people are required to conduct a complete vulnerability assessment.

Is your water system on track to have its assessment done in the time frame required by law?

PowerPlus Corp. is pleased to offer water utilities a competent source to perform your vulnerability assessment. The PowerPlus team of consultants has been certified to conduct the assessment utilizing the Risk Assessment Methodology (RAM) for Water developed by the Sandia National Laboratories. This is the only assessment methodology recommended by the EPA.

Radiation Monitoring

First responders must have a working knowledge of radiation monitoring and the tools necessary to accomplish the task. It is imperative that these responders receive training in the areas outlined in the course overview below.

Course Overview:

- Fundamental principles of radiation
- Health effects and emergency medical considerations
- Applied radiation theories
- Radiation detection instruments (both old and new technology)
- Radiological survey techniques
- Storage, use and transportation of radiological and nuclear material containers
- Radiological Dispersal Devices (RDD)
- Decontamination
- Case studies of radiological and nuclear incidents

Target Audience: This training course is designed for fire or other personnel who will be responsible for detecting and locating the presence of radiation.

Course Duration: *Four (4) hours*



Protective Apparel

Kimberly-Clark Protective Apparel

Viral penetration testing has been performed on Kimberly-Clark Protective Apparel utilizing ASTM 1671 test procedure. The viral penetration testing indicates that Kimberly-Clark KLEENGUARD® ULTRA, REPEL®, HAZARD-GARD™ I and HAZARD-GARD™ II apparel provide an effective barrier against organisms up to 30 times smaller than 1.0 micrometer. Additionally, KLEENGUARD® Ultra, REPEL®, HAZARD-GARD™ I and HAZARD-GARD™ II film barrier materials provide 100% particulate barrier. KLEENGUARD® Ultra, HAZARD-GARD™ I and HAZARD-GARD™ II are resistant to penetration from bleach, the chemical recommended for anthrax clean-up operations by the CDC (ASTM 1671, procedure C). REPEL®, HAZARD-GARD™ I and HAZARD-GARD™ II are also penetration resistant to all ASTM F 1001 chemicals including sulfuric acid and sodium hydroxide. HAZARD-GARD™ I offers a 1.3 mil solid polyethylene film barrier. HAZARD-GARD™ II offers a SARANEX 23P film barrier. These garments are available with upgraded seam barriers. HAZARD-GARD™ I and II are available with bound seam and HAZARD-GARD™ II with taped seam. HAZARD-GARD™ II is available in both encapsulated and respirator suites for those customers requiring garments compatible with supplied air.

All of these coveralls are produced with the patented REFLEX® design, offering seams that are primarily on the back of the garment away from frontal strike zone. A tape sealed storm flap covering the front zipper is standard on all these coveralls.

The user is responsible for assessing the level of hazardous exposure and determining the appropriate personal protective equipment needed for each circumstance.

Kleenguard® Ultra

The patented three-layer fabric construction of Kleenguard® Ultra features a middle layer of microporous film that allows heat and sweat vapor to escape, yet protects against many dry particulates and liquids, even under pressure. It also passes ASTM F1670/1671‡ testing for penetration of blood, body fluids and blood-borne pathogens. Cchemical barrier to sulfuric acid.

Typical uses:

- Tank cleaning
- Liquid and fiberglass handling
- Emergency medical response

Repel®

Made from a polyethylene-coated fabric that's lightweight and resistant to many water-based liquids, greases and oils and liquid chemical splashes and sprays. Repel® coveralls pass ASTM F903 penetration testing for the wide range of liquid chemicals represented by ASTM F1001. Repel® passes the ASTM F1670/1671‡ testing for penetration of blood, body fluids and blood-borne pathogens. California's Department of Pesticide Regulation, a division of state EPA, has approved Repel® coveralls as chemical protection in pesticide applications.

Typical uses:

- Chemical handling
- Environmental clean-up
- Oil refining
- Asbestos/lead abatement
- Tank cleaning
- Acid/caustic splash



Part#	Description	Size
KIM45093	Kleenguard Ultra, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, denim blue	L
KIM45094	Kleenguard Ultra, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, denim blue	XL
KIM45095	Kleenguard Ultra, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, denim blue	XXL
KIM45096	Kleenguard Ultra, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, denim blue	XXXL
KIM45422	Repel, Coveralls with Zipper front, hood, elastic wrists and ankles, storm flap	M
KIM45423	Repel, Coveralls with Zipper front, hood, elastic wrists and ankles, storm flap	L
KIM45424	Repel, Coveralls with Zipper front, hood, elastic wrists and ankles, storm flap	XL
KIM45425	Repel, Coveralls with Zipper front, hood, elastic wrists and ankles, storm flap	XXL

Protective Apparel



Hazard-Gard® I

Made from a nonwoven fabric with an exterior that is laminated with a 1.3 mil polyethylene film and an interior that has a comfortable, cloth-like feel against the skin. Designed with no seams in the front of the garment (the primary splash area). Available with serged or bound seams.

Typical uses:

- Hazardous remediation
- Environmental clean-up
- Petrochemical/Oil refining
- Acid Handling
- Biohazard clean up



Hazard-Gard® II

Made from a Durable, lightweight fabric with an exterior laminated with Saranex® 23-P film and an interior that has a comfortable, cloth-like feel against the skin. Designed with no seams in the front of the garment (the primary splash area). Available with taped or bound seams.

Typical uses:

- Chemical handling/mixing/clean-up
- Hazardous material handling
- Hazardous waste clean-up
- Industrial Hazmat teams
- Petrochemical
- Utilities



Part#	Description	Size
KIM45573	Hazard-Gard I, Coveralls with Hood, Zipper front, elastic wrists and ankles, storm flap, serged seam, gray	L
KIM45574	Hazard-Gard I, Coveralls with Hood, Zipper front, elastic wrists and ankles, storm flap, serged seam, gray	XL
KIM45575	Hazard-Gard I, Coveralls with Hood, Zipper front, elastic wrists and ankles, storm flap, serged seam, gray	XXL
KIM45576	Hazard-Gard I, Coveralls with Hood, Zipper front, elastic wrists and ankles, storm flap, serged seam, gray	XXXL
KIM45593	Hazard-Gard I, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, serged seam, gray	L
KIM45594	Hazard-Gard I, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, serged seam, gray	XL
KIM45595	Hazard-Gard I, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, serged seam, gray	XXL
KIM45596	Hazard-Gard I, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, serged seam, gray	XXXL
KIM45654	Hazard-Gard II, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, bound seam, white	XL
KIM45655	Hazard-Gard II, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, bound seam, white	XXL
KIM45656	Hazard-Gard II, Coveralls with Hood & Boots, Zipper front, elastic wrists and ankles, storm flap, bound seam, white	XXXL



FOR GENERAL PROTECTION

Kleenguard® Extra

All The Breathability & Durability PLUS Superior Particle Holdout.

With all the protection you expect from KLEENGUARD® but now even more durable, KLEENGUARD® Extra is made from heavier fabric. Patented MicroForce™ Barrier fabric enhances the performance of this premium SMS fabric, giving it superior particle holdout while allowing excellent breathability.

Typical uses:

- Maintenance/General clean up/Shutdown operations
- Manufacturing/Assembly operations
- Asbestos/Lead Abatement
- Laboratories/Pharmaceuticals
- Electronics
- Dusty Environments/Fine particle protection/Fiberglass
- Working with oil & grease
- Printing
- Food processing
- Agricultural
- Aerospace
- Mold Remediation



Part #	Description	Size
KIM46122	Kleenguard Extra, Coveralls with zipper front, hood & boots, elastic wrists, back, and ankles, white	M
KIM46123	Kleenguard Extra, Coveralls with zipper front, hood & boots, elastic wrists, back, and ankles, white	L
KIM46124	Kleenguard Extra, Coveralls with zipper front, hood & boots, elastic wrists, back, and ankles, white	XL
KIM46125	Kleenguard Extra, Coveralls with zipper front, hood & boots, elastic wrists, back, and ankles, white	2XL
KIM46126	Kleenguard Extra, Coveralls with zipper front, hood & boots, elastic wrists, back, and ankles, white	3XL
KIM46127	Kleenguard Extra, Coveralls with zipper front, hood & boots, elastic wrists, back, and ankles, white	4XL



Protective Apparel



The miracles of science®

Emergency response has always been challenging, but now the challenges seem to be greater than ever. Even the best equipped and most highly trained response teams are wondering if they are properly prepared to handle the potential chemical/biological terrorist threats. When you are reevaluating your team's state of preparedness, you will undoubtedly be reviewing your protective garment choices and your training procedures. Because different hazards call for different levels of protection, DuPont offers a wide range of protective fabrics, garments and accessories to meet your needs.

Tychem® F

- A proprietary barrier laminated to a Tyvek® substrate
- Strong and lightweight, with broad chemical barrier
- Used for protection from chemical warfare agents
- Color: Gray
- Seams: Taped



CPF® 3

- A multi-layer film barrier laminated to a durable 2.0 oz/yd² polypropylene substrate.
- Provides barrier to a broad range of chemicals.
- Strong and durable for rigorous activities and rugged situations involving moderate liquid splash.
- Color: Tan.
- Seams: Taped.
- Commonly used in domestic preparedness for protection from biohazards, several toxic industrial chemicals and some chemical warfare agents.
- Typical applications include chemical handling, petrochemical, hazardous materials/waste clean-up, fire departments, industrial hazmat teams, utilities, and domestic preparedness. Commonly used in domestic preparedness for situations where the potential to exposure to chemicals exist.



Tychem® SL

- A lightweight fabric made from Tyvek® laminated with a chemical-resistant Dow Saranex® 23P film.
- Offers dependable protection against a broad spectrum of chemicals.
- Available in simple coveralls to fully encapsulating Level B suits.
- Offers great protection against hazardous particles and liquids.
- Commonly used in domestic preparedness for protection from biohazards, several toxic industrial chemicals and some chemical warfare agents.
- Strong fabric is rugged and durable, reducing the risk of tears and abrasion.
- Color: White.
- Seams: Bound, Taped and NSR®.



Tychem® BR

- A multi-layer film barrier laminated to a durable 2.3 oz/yd² polypropylene substrate
- BR and LV garments are available in styles ranging from coveralls to fully encapsulated Level A suits
- Provides one of the broadest ranges of chemical protection available with test data available against more than 250 chemicals
- High visibility yellow color



STYLE CHART

Style	Tychem® F	Tychem® SL	Tychem® CPF® 3	Tychem® BR	Tychem® LV	Tychem® TK
Coverall		✓	✓	✓		✓
Coverall with hood	✓	✓	✓	✓	✓	✓
Coverall with hood & boot	✓	✓	✓	✓	✓	✓
Encapsulated Level B		✓	✓	✓	✓	✓
Fully encapsulated Level A				✓	✓	✓

Protective Apparel



The miracles of science®

Tychem® LV

- A multi-layer film barrier laminated to a durable 2.3 oz/yd polypropylene substrate.
- Provides the same physical properties and chemical resistance as Tychem® BR, in a low-visibility color for military operations or other discrete situations.
- Protects against moderate to heavy chemical splash.
- Provides one of the broadest ranges of chemical protection with test data available against more than 250 chemicals.
- Eliminates the need to inventory many different garments.
- Color: Military Olive Green. Olive-Drab color LV garments are designed for low visibility in hazardous surroundings such as military operations or other discrete situations.
- Seams: Taped.
- Typical applications include military situations, domestic preparedness, chemical handling, PCB clean-up, hazardous materials/waste cleanup, fire departments and industrial hazmat teams.



Tychem® TK

- Made from a high strength nonwoven material with non-halogenated films on either side.
- Specifically developed for protection against toxic, corrosive gases, liquids and solid chemicals.
- Tested against more than 280 chemicals. More than 260 of these with no observed permeation after eight hours of continuous contact.
- Available in a variety of styles from aprons and coveralls to Level A gas-protective ensembles.
- Color: High-Visibility Lime Yellow.
- Seams: Taped or Double Taped.

CHEMICAL WARFARE AGENTS

Permeation Data Table for Tychem Limited Use Fabrics

WMD Chemicals	Tychem® F	Tychem® SL	Tychem® CPF® 3	Tychem® BR	Tychem® LV	Tychem® TK
Lewisite	> 360	> 360	120	> 720	> 720	> 720
Mustard	> 720	180	120	> 720	> 720	> 720
Tabun	> 720	nt	nt	> 720	> 720	> 720
Sarin	> 720	360	120	> 720	> 720	> 720
Soman	> 720	nt	> 480	> 720	> 720	> 720
VX	> 720	> 720	> 480	> 720	> 720	> 720

Normalized Breakthrough Time (NBT) shown in minutes.

> = more than < = less than nt = not tested

NOTE: Numbers reported are averages of samples tested by the ASTM F739 test method. Sample results do vary and therefore averages for these results are reported. All DuPont testing is done by a third party and permeation test results are listed above.

STYLE CHART

Style	Tychem® F	Tychem® SL	Tychem® CPF® 3	Tychem® BR	Tychem® LV	Tychem® TK
Coverall		✓	✓	✓		✓
Coverall with hood	✓	✓	✓	✓	✓	✓
Coverall with hood & boot	✓	✓	✓	✓	✓	✓
Encapsulated Level B		✓	✓	✓	✓	✓
Fully encapsulated Level A				✓	✓	✓



Protective Apparel

INCIDENT COMMAND VESTS EMERGENCY SERVICES & HOMELAND SECURITY

The 3000 and 4000 Series Incident Command Vest programs accommodate Standard Emergency Management System (SEMS) and Incident Command System (ICS). Please let us help put together your program.



3000 Series Incident Command Vests

3200 Series

Features:

- Poly/cotton fabric with matching color vest trim
- One upper right chest, one pencil division patch pocket and one inside lower right patch pocket
- White 1" wide high intensity Reflexite® reflective tape
- Title on front and back (select your title front and back from our standard list)
- White vests will have lime reflective tape



3200 Series

3700 Series

Features:

- Poly/cotton fabric with matching color vest trim
- One upper right chest, one pencil division patch pocket and one inside lower right pocket
- White 1" wide high intensity Reflexite® reflective tape
- Clear plastic card holder for standard 8-1/2" x 11" paper folded in half to 4-1/4" x 11" (back) and 3" x 5" card holder (front)
- White vests will have lime reflective tape



3700 Series

Options:

- Laminated paper inserts sold separately

4000 Series Incident Command Vests

4200 Series

Features:

- Poly/cotton fabric with matching color vest trim
- One lower right outside large pocket with one division, one power left inside large notebook/flashlight pocket
- Hook and loop front closure
- Lime/silver/lime 2" 3M™ Scotchlite™ Reflective Material
- Title on front and back
- Yellow vests will have orange/silver/orange 2" reflective material
- Sizes: S-5XL

4200 Series



4700 Series

4700 Series

4700 Series

Features:

- Poly/cotton fabric with matching color vest trim
- One lower right outside large pocket with one division, one power left inside large notebook/flashlight pocket
- Hook and loop front closure
- Lime/silver/lime 2"
- Clear plastic card holder for standard 8-1/2" x 11" paper folded in half to 4-1/4" x 11" (back) and 3" x 5" card holder (front)
- Sizes: S-5XL

Protective Apparel

INCIDENT COMMAND VESTS EMERGENCY SERVICES & HOMELAND SECURITY

5000 Series Incident Command Vests

5100 Series Cool Mesh

Features:

- Lime and orange vests feature our Ultra-Cool™ Mesh
- Durable comfortable soft hand mesh material (athletic Jersey mesh)
- White 2" wide high intensity Reflexite® reflective tape
- 1-1/2" reinforced Velcro front closure
- Select your title front and back from our standard list
- White vests will have lime reflective tape

Options:

- Available in heavy duty coated mesh



5100 Series

5800 Series Cool Mesh

Features:

- Lime and orange vests feature our new Ultra-Cool™ mesh material and are ANSI/SEA Class II compliant
- Durable comfortable soft hand mesh material (athletic Jersey mesh)
- White high intensity Reflexite™ reflective tape
- One upper left radio pocket, one large inside lower right patch pocket, one inside upper right multi-pencil pocket
- Select your title front and back from our standard list per color
- Sizes: S-5XL, ANSI vests available in M-5XL



5800 Series

8000 Series 4-Season Adjustable Enforcer ANSI/ISEA Class I & II Compliant

Features:

- Durable comfortable soft hand mesh material (athletic Jersey mesh)
- Snap up design for holster access
- 4-season adjustable side closures
- Shoulder mic tabs
- Outside pencil pocket
- 2" 3M™ Scotchlite™ Reflective Material with 1-1/2" contrasting background provides superior day-time visibility
- Lime and orange vests are ANSI/ISEA Class II compliant; all other colors will be Class I
- Vest is only ANSI compliant when worn in full-length position
- Optional storage bag included for safekeeping
- Sizes: M/L (adjusts from 46" to 60") and XL/2XL (from 52" to 64")



8000 Series



**BRITE
THREADS®**
BY M.L. KISHIGO. AN AMERICAN FIRM.

Protective Apparel

INCIDENT COMMAND VESTS

HOSPITAL EMERGENCY INCIDENT COMMAND SYSTEM (HEICS)

Serious emergency situations occur when least expected, requiring personnel to perform with the utmost of efficiency and professionalism. HEICS is an industry recognized organizational chart that clearly defines a chain of command to assist hospitals in managing their staff in the event of disaster. To implement this system, Brite Threads manufactures four different HEICS vest models, available in color and legend options to accommodate your specific program.

HEICS A

Features:

- White cloth vest with color coded binding
- Night-time reflective circles on front and back
- Includes black legend on both sides (front/back), two front power patch pockets
- Webbing for name tag on right chest
- Optional: one color hospital logo (a setup fee may apply)



HEICS A

HEICS B

Features:

- White cloth vest with color coded binding
- Horizontal night-time reflective stripes on front and back
- One right lower patch pocket
- Webbing for name tag on right chest
- Black trim front and back



HEICS B

HEICS C

Features:

- White cloth vest with color coded binding
- Black legend on both sides (front/back)
- One right lower patch pocket
- Webbing for name tag on right chest



HEICS C

HEICS E (“Economy”)

Features:

- Polyester mesh, black binding, elastic sides and Velcro closure in front
- Black title on front and back



HEICS E

	Black	Color Selection: <ul style="list-style-type: none"> • Cloth vest, 65% cotton/35% polyester, binding available in six color options, shown at the left • 100% polyester mesh vests available in orange
	White	
	Yellow	
	Green	
	Blue	
	Red	



PACIFIC HELMETS NORTH AMERICA

Pacific Helmets offers the ultimate in protection, flexibility, comfort, and safety. The Kevlar® helmets are lighter in weight and offer superior impact protection and heat resistance than most other popular helmets. Pacific Helmets are the only helmets that offer the optional built-in flashlight holder for improved hands free illumination.

- All models employ the high impact absorption and tensile strength advantage of woven all-Kevlar® with color impregnated throughout the helmet shell.
- Higher modulus provides greater all-around impact protection.
- 30-40% lighter in weight than comparable fiberglass or plastic.
- Withstands higher heat temperatures and prolonged UV radiation.

PHMR3K “Kiwi” Rescue Helmet

The “Kiwi” provides the ultimate in comfort and protection. One of today’s lightest weight, all purpose rescue helmets featuring unparalleled top and side impact protection. Extremely effective for confined space rescue. The “Helmet of Choice” by USAR/FEMA personnel since 1996.

- High gloss woven all-Kevlar® RTM™ shell
- Full leather headband on dial ratchet system
- Leather crown comfort cap
- Lifetime guaranteed ESS goggle mounts
- 3 point chinstrap with Nexus QR buckle
- Compliant to ANSI Z89.1
- Standard colors available: Red, Yellow, Black, White, Blue, Orange

Available Options

- > ESS Xtricator goggles (NFPA compliant)
- > High visibility available: Fluorescent Orange or Lime Green available
- > Single or double layer Nomex® neck protector
- > 4" face shield



R3K



R3TK



R4



R5K

PHMR3TK “Kiwi” Rescue Helmet with Flashlight Pod

- High gloss woven all-Kevlar® RTM™ shell with built in flashlight pod
- Polyurethane full head impact liner
- Full leather headband on dial ratchet system
- Leather crown comfort cap
- Lifetime guaranteed ESS goggle mounts
- 3 point chinstrap with Nexus QR buckle
- Compliant to ANSI Z89.1

PHMR4 Low Profile Rescue Helmet

- High gloss woven all-Kevlar® RTM™ shell
- Polyurethane full head impact liner
- Front leather headband on dial ratchet system
- Lifetime guaranteed ESS goggle mounts
- 3 point chinstrap with Nexus QR buckle
- Compliant to ANSI Z89.1

PHMR5K Light Duty Helmet

- High gloss woven all-Kevlar® RTM™ shell
- 6 ribbon cradle
- Front leather headband on dial ratchet system
- Lifetime guaranteed ESS goggle mounts
- 3 point chinstrap with Nexus QR buckle
- Compliant to ANSI Z89.1 and AS 1801 1997 Type 1, 2 or 3
- Available with built-in flashlight pod (optional)

Head Protection

PACIFIC HELMETS NORTH AMERICA

PHMRC2000 River Rat Light Water Rescue / Rock Climbing Helmet

- High gloss woven all-Kevlar® RTM™ shell.
- Front leather headband on dial ratchet system.
- 3 point chinstrap with Nexus QR buckle
- High impact suspension
- Removable water plugs
- High visibility and /or photoluminescent colors available (optional).



RC2000

PHMWR2000 Water Rescue Helmet with Retractable Eye Protection

- High gloss woven all-Kevlar® RTM™ shell.
- Retractable eye protector.
- Front leather headband on dial ratchet system.
- 3 point chinstrap with Nexus QR buckle.
- High impact suspension.
- Removable water plugs.
- High visibility and /or photoluminescent colors available (optional).



WR2000



Vanguard® Helmets for Lateral Protection and Emergency Response

Vanguard and Vanguard II Helmets are designed to provide limited impact and penetration protection in the event of a top or lateral blow to the head. Compliant with test requirements of ANSI Z.89.1-1997 for Type I and Type II helmets (Class E and G) and are certified to CAN/CSA Z94.1-1992, Class E (Canadian lateral protective helmet standard).



Part #	Description
Vanguard II Polyethylene Complete Assemblies	
804939	Fas-Trac Ratchet Suspension, yellow
804940	Fas-Trac Ratchet Suspension, white
804944	Fas-Trac Ratchet Suspension, red
804949	Fas-Trac Ratchet Suspension, blue
804947	Fas-Trac Ratchet Suspension, bright orange

Vanguard Polycarbonate Complete Assemblies	
802951	Fas-Trac Ratchet Suspension, yellow
802952	Fas-Trac Ratchet Suspension, white

Replacement Suspension	
804631	Fas-Trac suspension, Vanguard helmets only

Chinstraps	
804630	Two-point chinstrap
804629	Three-point chinstrap (for maximum retention)

Part #	Description
Defender® Foldback Faceshield Frame (plastic)	
10016742	Defender® Foldback Faceshield Frame attaches with band (visor not included)

Visors	
10005882	Propionate Visor, shade 5 (green), 8" x 15 1/2" x .060"
488132	Polycarbonate visor, clear, 8" x 16" x .060"
802337	Fog-free polycarbonate visor, clear, 8" x 16" x .040"

Ear Muff Accessory	
10003346	Sound Blocker™ 26 Earmuff kit, 26 NRR, complete with brackets

Head Protection

Fire Helmets

Since 1836, CairnsHelmets has manufactured leather fire helmets for generations of firefighters. Now, MSA CairnsHELMETS® fire helmets offer added protection to meet today's high-temperature standards of head and neck protection, with Nomex chin straps, a PBI/Kevlar earlap, faceshield wing protectors, a high temperature foam cap, a higher temperature impact cap liner, and a 3-position rear-ratchet height adjustment for comfortable fit.

For use in response to Homeland Security conditions, we suggest 3 Modern-style and 1 Traditional CairnsHELMETS designs with tough, through-color, fiberglass-reinforced, hi-temp shell construction that resists cracking and chipping.

Both the brimless **HP₃ Commando** and short-brimmed **515 Navigator** fire helmets are NFPA-approved, durable fiberglass composite helmets whose low profile allows easy access to confined spaces.

The **515 Navigator** model has a continuous short brim that provides a watershed. Both have SCBA front headband adjustments and an ultrahigh-temperature (TPR) edge trim that will not melt or drip.

The **660C Metro** modern-style helmet has a full brim. This NFPA-approved durable fiberglass composite helmet is the most popular style.

The **CairnsHELMETS 1010**, an NFPA-approved fiberglass composite helmet, is a traditional style fire helmet that combines modern durability and performance with the timeless look of reinforced ribs and a deep water-shedding brim.

An PowerPlusTeam member can help you select additional appropriate gear, like clothing, gloves, boots, first aid, etc., that may be necessary for protection from various hazardous environments you could encounter in Response, Rescue, and/or Recovery. Most MSA products meet all applicable nationally recognized US government regulations and industry standards, such as NIOSH, OSHA, NFPA, ANSI, etc., and some Canadian and international standards.



HP₃ Commando



515 Navigator



660C



1010

Part #	Description
MSAB-MOD5321112	HP ₃ Commando CairnsHELMETS® Fire helmet (brimless, low-profile, fiberglass composite)
MSAB-MOD4621112	515 Navigator CairnsHELMETS® Fire helmet (continuous 1 ¹ / ₄ " brim)
MSAB-MOD2571112	660C Metro CairnsHELMETS® Fire helmet (full brim, fiberglass composite)
MSAB-TRD11211112	1010 CairnsHELMETS® Fire helmet (traditional, fiberglass composite)
MSA10013393	Medical Information Carrier, 10/pk
MSA10026398	Sound Blocker™ 26 Muffs for Defender® faceshield frame
MSA10003346	Sound Blocker™ 26 Muffs for Defender® slotted cap

MSA's small, simple, inexpensive **Medical Information Carrier System** provides crucial, lifesaving information in case of a medical crisis. The wearer's personal medical information is recorded and attached inside his/her hardhat. A small reflective decal on the helmet alerts emergency personnel.



Sound Blocker™ 26 Muffs are one form of available hearing protection; some models can easily integrate with slotted caps and faceshield frames.



Foot Protection

Hazmax® 87012

16" Steel toe boot with Ultragrip® Sipe Sole

- Meets and surpasses NFPA 1991, 1994 edition for chemical permeation resistance requirements
- Meets and surpasses NFPA 1991, 1994 edition flammability resistance test
- Exceeds ANSI & CSA standards for Dielectric footwear. Dielectric footwear meets or exceeds ANSI STD Z41-1991 section 4 for electrical hazards footwear, as well as CSA STD Z195 Grade 1
- Steel safety toe
- Full steel mid-sole
- Steel ladder shank
- Replaceable cushioned insoles
- Cut off bands
- Kick off lug



#87012



Products

by

ONGUARD
INDUSTRIES

Chemical Overboot

Protection for emergency responders

- Constructed using the same Hazmax material that passes chemical standards of NFPA 1991, 1994 edition.
- Special fold line on 10" snug fit, if required.
- Kick off lug.

87025

10" Green overshoe with 4-way cleated sole

87050

17" Strapper with self-cleaning cleated sole

- Fits over most work boots and shoes
- Adjustable polyester strap



#87015



#87050

Hazmax® Overboot 87015

Features:

- New design makes for easy decon and cleaning.
- Fits over Level A suits easily.
- Kick off lug, one person can don and doff.
- Steel toe, steel ladder shank, steel mid-sole.
- Replaceable cushion insoles.

Part #	Description	Size
BAS87012	Hazmax, steel toe, full steel mid sole, 16"	7 - 13
BAS87050	Chemical overshoe	6 - 15
BAS87025	Chemical overboot	6 - 15
BAS87015	Hazmax, steel toe, full steel mid sole, 11"	M, L, XL

Servus® 36" Hip Boots – #T112

- Safety styles meet ANSI Z41 1999 Section 1 for impact/75 and compression/75 toe protection.
- Premium commercial grade rubber uppers.
- Special rubber compound prevents ozone deterioration.
- Flexible hand-layered construction.
- Tough, comfortable fabric prevents ozone deterioration.
- Cushion insoles reduce fatigue for all-day comfort.
- Steel shanks reinforce construction and support the feet.
- Made to Servus® specifications—100% waterproof.
- Whole sizes 6-15.



NSPT112

15" Caution Green/Yellow/Black North HZT Safety Boot - #75177

Safe-Toe steel toe construction. Puncture resistant steel outsole. TDT self-cleaning outsole. FOOT FORM contour insole. Meets U.S. Military spec MIL-B-51176F Toxicological boot. OSHA Level A. Made in the U.S.A.

- Whole sizes 7-15
- Meets U.S. Military Specs



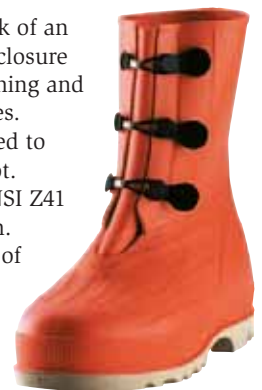
NSP75177

NORTH
Safety Products

HazProof™ by Tingley

HazProof™ is the first boot to meet and surpass NFPA 1991, 1994 Edition requirements.

- Foot area is engineered to accommodate the extra bulk of an encapsulated suit, and the closure system allows for easy donning and doffing while wearing gloves.
- Stretcher fastener is designed to easily secure suit leg in boot.
- Steel toe meets/exceeds ANSI Z41 for impact and compression.
- Removable innersole made of polypropylene.
- Mid-sole made of blown closed cell EVA material.
- Steel shanks meets NFPA 1991, 1 Edition Ladder Shank Bend Resistance Test.
- Bright orange color.
- Cushioned heel for added support.
- Sure grip outsole.
- Seamless construction.



Part #	Description
TNG82330	HazProof™ boot, case pack/6, sizes 7-13
TNGRF823	Replacement stretch fastener, 6/polybag, 24 polybags/case

Foot Protection

Servus® Studs Second Sole

- Extra strong stretch rubber to fit snugly over shoes and boots
- Practical slip-resistant oversoles store easily in a pocket or work belt until they are needed
- Handy heel tab grips for easy on and off
- Tough, Tungsten carbide studs on SERVUS Studs are easily replaced
- Made in the U.S.A.

Part #	Size	Description	Fits	
			Men Size	Women Size
NPSR101	S/M	Servus® Studs Second Sole	7-9	9-11
NPSR101	L	Servus® Studs Second Sole	10-12	12-13
NPSR101	XL	Servus® Studs Second Sole	13-15	
NPSR101	XXL	Servus® Studs Second Sole	16 +	



Servus® SF™ Grit Overboots

- Servus® SF™ Grit super-fit overboots are designed with more room to protect today's bulkier leather footwear with wide toes, wedged outsoles and knobby treads
- Available in 12" boot or high cut rubber
- Aluminum oxide grit is compressed into the PVC outsole for superior slip-resistance
- Made in the U.S.A.

Part #	Size	Description	Fits
			Men Size
NPSR110	S	Servus® SF™ Grit	6-8
NPSR110	M	Servus® SF™ Grit	9-10
NPSR110	L	Servus® SF™ Grit	11-13
NPSR110	XL	Servus® SF™ Grit	14-15



10" Servus® Military Diver Boot - #11426

Vulcanized hand-laid construction. ANSI Z41-1999 and is corrosion resistant. Corrosion resistant & puncture resistant stainless steel midsole compliant with ANSI Z41-1999 standard. Lead weight riveted to midsole for added weight. Calendared rubber outsole provides traction. Rubber upper is resistant to ozone cracking, and oxidation. Meets U.S. Military Spec Mil-B87031B(SH) 6 February 1987. Made in the U.S.A. Sizes 1-4

- 1 fits men's size 8
- 2 fits men's size 10
- 3 fits men's size 12
- 4 fits men's size 14

Part #	Size	Description	Fits
			Men Size
NSP11426	1	Servus® Military Diver	8
NSP11426	2	Servus® Military Diver	10
NSP11426	3	Servus® Military Diver	12
NSP11426	4	Servus® Military Diver	14



SF Chem Overboot - #11095

The SF Chem Overboot was developed for general chemical resistance. The SF Chem Overboot has been tested to the chemical requirements of the Military Spec MIL-O-43995C and the CID A-A-59520. The construction as a one piece injection molded overshoe eliminates leaks and is constructed with a specially formulated compound to resist swelling and becoming mushy from exposure to petroleum products.

Part #	Description
NSP11095	SF Chem Overboot



Hand Protection

Full Feature Gunn Pattern with Leather Palm

This select shoulder leather palm glove is for tough, rugged jobs where you need extra protection against abrasion. Available in assorted styles for specific job applications, this glove features a rubberized cuff for durability and a full feature Gunn style for comfort. This glove is ideal for heavy and general purpose work requiring leather protection.



Part #	Description	Sizes
MEG1310	Full feature gunn, 4 1/2", gauntlet cuffs	S-XL
MEG1311	Double leather palm, 2 1/2", safety cuffs	Large

Full Feature Gunn Pattern

This economy shoulder leather palm glove features a full Gunn pattern for comfort and fit. Available with rubberized safety cuff or starched safety cuff, this glove is ideal for general purpose applications requiring abrasion protection and breath ability of leather and cotton.



Part #	Description	Sizes
MEG1200	2 1/2", Rubberized safety cuffs	Large
MEG1200S	2 1/2", Starched safety cuffs	Large



3440L

New Product



1440L

Reflective Grain Pig Driver

Pigskin affords the greatest breathability due to the porous texture of this hide. Additionally, pigskin tends to become softer with use and withstands moisture without stiffening. When laundered, this leather will return more to its natural soft texture than other leathers.

Part #	Description	Size
MEG3440L	Reflective grain pig driver with 3M® Reflective Tape, Thermosock Lining, 2.5" knit wrist	Large
MEG1440L	Reflective safety leather palm with 3M® Reflective Tape, 2.5" safety cuffs	Large

Reflective Safety Leather Palm

This high visibility glove is suited for all applications where being visible is important for safety. General purpose applications requiring abrasion protection and breathability of leather and cotton.

Cow Grain Leather Drivers

- Full leather gloves
- Premium grain leather
- Slip-On Cuffs
- Color coded hems to identify sizes
- For all general purpose applications requiring greater dexterity.



Part #	Description	Sizes
MEG3200	Shirred elastic back, premium grade, unlined, straight thumb	S - XL
MEG3201	Shirred elastic back, regular grade, unlined, straight thumb	S - XL
MEG3211	Shirred elastic back, regular grade, unlined, keystone thumb	S - XXXL

BEAR KAT®

- 100% KEVLAR® brand fiber shell
- Textured blue latex coating on palm, fingertips and thumb crotch area
- Extended knit wrist
- Provides tensile strength and protection from cuts and punctures
- Conforms to the natural contour of the hand



Part #	Description	Sizes
MEG9687L	BEAR KAT® 100% KEVLAR® brand shell	S - XL

Hand Protection



Disposable Latex

This 5 Mil, non-sterile, snug fitting latex glove can be worn on either hand.



Part #	Description	Sizes
MEG5050	Powdered , Medical grade, 100/bx	S - XL
MEG5055	Powder Free, Industrial grade, 100/bx	S - XL
MEG5060	Powdered, Industrial grade, 100/bx	S - XL



Disposable Vinyl

This 5 mil glove has rolled cuffs and is made with FDA-accepted materials.



Part #	Description	Sizes
MEG5000	Powdered, medical grade, 100 per box	S - XL
MEG5020	Powdered, industrial grade, 100 per box	S - XL

N-DEX®

N-DEX gloves bring new levels of tactile sensitivity, comfort, dexterity and puncture resistance. The unique low-modulus, soft-nitrile formulation of these gloves replaces and outperforms natural rubber and vinyl disposables in a wide variety of applications. They contain no natural rubber proteins. N-DEX gloves are available in both low-powder (non-talc, USP-grade vegetable starch) and powder-free styles for virtually unlimited disposable glove selection. All meet US government CFR 21 specifications and are acceptable for use in food and pharmaceutical applications. Certain styles are Class 1 medical devices. N-DEX's exclusive, patented (US. Patent No. 35.616), low-modulus formulation reduces hand fatigue caused by elastomeric stress and provides much greater puncture resistance than natural rubber and vinyl disposables of comparable mill thickness. N-DEX gloves also resist a broad range of chemicals in many applications where protection from intermittent contact or splash is needed. Although N-DEX gloves conform to the wearer's hand for a precise, comfortable fit, their unique pressure-reduction characteristic actually minimizes hand pressure and fatigue, giving you a cooler and drier feel than you get with natural rubber or vinyl disposables.

N-DEX's intrinsic static-release properties increase product protection, and all N-DEX styles have a special, built-in safety feature: although extremely puncture resistant, once violated, N-DEX gloves readily tear so the wearer knows the glove should be replaced. Made in USA.



7005 N-DEX® ORIGINAL is 4-mil thick with low-powder, and low-modulus. It is blue, 9 1/2"-long, ambidextrous, disposable, and made of 100% -nitrile. Box of 100 each.

Part #	Description	Sizes
BEG7005	N-DEX Original, 4 Mil, Disposable, low-powder	S-XL



8005 N-DEX® Plus is 8-mil thick, with low-powder, and low-modulus. It is blue, 10"-long, ambidextrous, disposable, and made of 100% -nitrile. Box of 50 each.

Part #	Description	Sizes
BEG8005	N-DEX Plus, 8-mil Disposable, low-powder	S-XL



6005PF N-DEX® Medical Exam is 4-mil thick, powder-free or with low-powder, and low-modulus. It is blue, 9 1/2"-long, ambidextrous, disposable, and has rolled cuffs. Made of 100% -nitrile. Box of 100 each. Note: 6005PF is a Class 1 medical device.

Part #	Description	Sizes
BEG6005PF	N-DEX medical exam, Disposable, powder-free, 4-Mil	S-XL



9005 N-DEX® Ultimate Non-Latex is 6-mil thick, powder-free or with low-powder, and low-modulus. It is blue, 11"-long, hand-specific (left and right), disposable, and has rolled cuffs. Made of 100% -nitrile. 50 pair per box.

Part #	Description	Sizes
BEG9005	N-DEX Ultimate, 6 Mil, Disposable, low-powder	S-XL



9005PF N-DEX® Long Cuff Non-Latex is 6-mil thick, powder-free, and low-modulus. It is blue, 11"-long, hand-specific (lefts and rights), with a rolled cuff. Disposable, Made of 100% -nitrile. 50 pair per box. Note: 9005PF is a Class 1 medical device.

Part #	Description	Sizes
BEG9005PF	N-DEX, disposable, powder-free, 6-Mil	S-XL



Hand Protection

Ultraflex™ Neoprene®

Highly flexible and chemical resistant, this fully coated glove performs well in a wide range of chemicals in which neoprene is recommended, particularly where a lightweight, dexterous glove is needed. It will even withstand complete submersion. Durable and abrasion resistant, it's nearly as flexible as an unsupported glove, yet it's a true coated glove with a strong bond between its neoprene coating and its two-piece interlock liner that enhances glove flexibility and integrity. Ultraflex Neoprene provides an excellent wet grip. It may be your best bet for petrochemicals and refinery applications, turning valves, analyzing samples, handling chemicals, cleaning equipment, electronics, material handling and general utility.

Part #	Description	Size
BEG31	Neoprene fully coated, rough finish, 12" gauntlet	M
BEG32	Neoprene fully coated, rough finish, 12" gauntlet	L
BEG33	Neoprene fully coated, rough finish, 12" gauntlet	XL

Ultraflex™ Nitrile

This highly flexible, fully coated, chemical-resistant glove provides excellent protection against abrasion, snags and punctures and performs well in a wide range of chemicals. Its rough-finished nitrile coating provides a strong grip, even in liquids. Although it's nearly as flexible as unsupported gloves, Ultraflex Nitrile is a true coated glove with a strong bond between the nitrile coating and the two-piece interlock liner that enhances glove flexibility and integrity. Ultraflex Nitrile provides protection even in case of total emergency submersion of the glove. Great for petrochemical and refinery applications, valve turning, maintenance, handling chemicals and general material handling. This glove is in compliance 21 CFR, 170- 199 for use with in both food and pharmaceutical applications. Made in USA.

Part #	Description	Size
BEG21R	Nitrile fully Coated, 12" gauntlet, rough finished	M
BEG22R	Nitrile fully Coated, 12" gauntlet, rough finished	L

Black Knight®

Best's Black Knight gives you the highest value in-use of any black plastic (PVC-coated) glove available. An economical choice for working with chemicals, oil and grease, this Sanitized®, recyclable, abrasion-resistant industry standard is excellent for petrochemicals, refining, mining, construction and handling slick, abrasive materials. Made in USA.

Part #	Description	Size
BEG7703	PVC Fully Coated, Jersey Lined, Knit, Wrist, Smooth Finish	L
BEG7710R	PVC Fully Coated, Jersey Lined, 10" gauntlet, Rough Finish	L
BEG7712R	PVC Fully Coated, Jersey Lined, 12" gauntlet, Rough Finish	L
BEG7714R	PVC Fully Coated, Jersey Lined, 14" gauntlet, Rough Finish	L
BEG7914R	PVC Fully Coated, Interlock liner, 14" gauntlet, Rough Finish	L

Nitri-Solve®

Made from a special nitrile (NBR) compound, Nitri-Solve provides excellent protection against abrasion, puncture, cut and snag. It also provides resistance to a broad range of solvents, animal fats and other chemicals. Permeation testing shows that Nitri-Solve's chemical resistance is equal to or better than that of any other similar nitrile glove. Nitri-Solve's case-hardened finish enhances both chemical and abrasion resistance and makes it easy to pull on-and- off. A non-slip grip makes wet work easier, safer, while Nitri-Solve's ergonomic design maximizes comfort. Nitri-Solve is available in flock-lined and unlined styles. Each hand is embossed with glove size for ease of pairing after recycling. Nitri-Solve works very well in petrochemicals, refining, chemical processing, painting, machine operations using cutting oil, metal fabrication, drilling, boring, cutting, degreasing, and handling pesticides. This unsupported nitrile glove complies with 21 CFR, 170- 199 and is acceptable for use in food and pharmaceutical applications.

Part #	Description	Size
BEG730	Unsupported Nitrile, 13", 15-Mil, Non-slip grip, flock lined	7 - 11
BEG737	Unsupported Nitrile, 15", 22-Mil, Non-slip grip, heavy duty, unlined	9 - 11
BEG747	Unsupported Nitrile, 19", 22-Mil, Non-slip grip, unlined	9 - 11



Hand Protection

Best® Butyl

This Best unsupported glove is made with Butyl and has a smooth finish. Unlined and with a rolled cuff, this glove is excellent protection against specific chemicals and gases.

Part #	Description	Size
BEG878	SMOOTH, Unsupported, Butyl, rolled cuff, unlined, 14", 30-mil	M - XXL



Chem Master®

For good resistance to a broad range of chemicals, Chem Master features a neoprene-over-natural rubber construction that also provides excellent abrasion, tear and puncture resistance. This comfortable, flexible and tactile sensitive glove has a self-flushing tractor-tread grip that encourages run off of fluids that are often trapped by a diamond grip pattern. Worker comfort is enhanced by the glove's 100%-cotton flock lining. Glove size is embossed on each hand. Chem Master offers good resistance to acids, alcohols, oils, grease, caustics, salts, ketones, detergents, petroleum-based solvents and animal fats. This unsupported neoprene-over-natural rubber glove complies with 21 CFR, 170- 199 to be acceptable for use in food and pharmaceutical applications.

Part #	Description	Size
BEG3CHM	Unsupported Neoprene-over-natural rubber, flock lined, 13", 26-Mil, sanitized, tractor-tread grip	S - XL



Value Master™

Providing unequalled value, comfort and flexibility as well as outstanding tactile sensitivity, strength, dexterity and elasticity, our form-fitting 12", 18-mil 100%- natural rubber latex Value Master styles feature a self flushing tractor-tread pattern that provides an excellent grip, wet or dry, and encourages run-off of fluids often trapped by diamond-shaped embossed patterns. Value Master resists a wide range of chemicals, including animal fats, caustics, acids, oils, salts, alcohols and detergents. Each Value Master is air tested to insure quality. Value Master is available unlined, either amber (VMU) or blue (VMUP) or flock lined, either yellow (VM) or blue (VMP). The VMU and VMUP are chlorinated to provide extra, case-hardened chemical resistance and to ease donning and doffing. The VM and VMP feature 100%-cotton flocking for added comfort. Value Masters are available in four sizes for a perfect fit.

Part #	Description	Size
BEGVMU	Unsupported Natural rubber, unlined, 12", 18-mil, tractor-tread grip, chlorinated, amber	S - XL
BEGVMUP	Unsupported Natural rubber, unlined, 12", 18-mil, tractor-tread grip, chlorinated, blue	S - XL
BEGVM	Unsupported Natural rubber, flock-lined, 12", 18-mil, tractor-tread grip, yellow	S - XL



Silver Shield® / 4H®

Made of a unique, flexible film, Silver Shield® / 4H gloves come in 6 sizes and are available in 14.5" (36.8 cm) length on sizes 6-8, and a 16" (40.6 cm) length on sizes 9 - 11/12. They are lightweight, ambidextrous and allow for maximum worker protection yet do not contain chemical accelerants that can cause allergic reactions. Chemical resistance and permeation chart on each package.

Applications:

- Petrochemical and refining applications
- Emergency response and HazMat clean-up
- Chemical transporting
- Handling chlorinated solvents
- Hydrocarbons
- Acids and ketones
- Medical labs
- Handling pesticides and herbicides.



Part #	Description	Length	Size	Case
NSPSSG/6	Silver Shield/4H Gloves	14.5"	6	50 pair/cs
NSPSSG/7	Silver Shield/4H Gloves	14.5"	7	50 pair/cs
NSPSSG/8	Silver Shield/4H Gloves	14.5"	8	50 pair/cs
NSPSSG/9	Silver Shield/4H Gloves	16"	9	50 pair/cs
NSPSSG/10	Silver Shield/4H Gloves	16"	10	50 pair/cs
NSPSSG/11	Silver Shield/4H Gloves	16"	11/12	50 pair/cs

117

Eye Protection

BLACKJACK®

Crews BLACKJACK safety glasses feature a stylish wrap-around lens design with integral sideshields and offers durable metal alloy temples with non-slip rubber head-grips for a customized fit.



Part #	Description
CRWS2110	BlackJack®, Clear Lens*
CRWS2112	BlackJack®, Grey Lens*
CRWS2117	BlackJack®, Silver Mirror Lens
CRWS2119	BlackJack®, Indoor-Outdoor Lens

*ALSO AVAILABLE WITH DURAMASS® AF4 ANTI-FOG COATING

TOMAHAWK®

The Tomahawk features a stylish wraparound design, fully adjustable ratchet action temples and a one-piece polycarbonate lens with integral sideshields. The lightweight frame provides added comfort and balance.



Part #	Description
CRWTK110	Tomahawk®, Black Frame, Clear Lens
CRWTK110AF	Tomahawk®, Black Frame, Clear Lens Anti-Fog
CRWTK112	Tomahawk®, Black Frame, Grey Lens
CRWTK119	Tomahawk®, Black Frame, Indoor-Outdoor
CRWTK120	Tomahawk®, Blue Frame, Clear Lens
CRWTK122	Tomahawk®, Blue Frame, Grey Lens
CRWTK130	Tomahawk®, Red/White/Blue, Clear Lens
CRWTK132	Tomahawk®, Red/White/Blue, Grey Lens

Lens Cleaning Station

Contains two boxes of 300 interfolded tissues and one 8-oz. bottle of Anti-Fog, Anti-Static cleaning spray



Part #	Description
CRWLCS1	Lens Cleaning Station

FROSTBITE 2®

Crews took the coolest look in eye protection and squared it. The Frostbite 2® from Crews has a squared look of trend setting designer eyewear. Safety times style to the second power. The Frostbite 2 features Ultra-lightweight frames for comfort and the lenses also filter out 99.9 percent of UV radiation. Available in three frame colors with an indoor-outdoor lens.



Part #	Description
CRWF2110	Frostbite®, Black Frame, Clear Lens
CRWF2112	Frostbite®, Black Frame, Grey Lens
CRWF2117	Frostbite®, Black Frame, Silver Mirror Lens
CRWF2119	Frostbite®, Black Frame, Indoor-Outdoor Lens
CRWF2128	Frostbite®, Blue Frame, Blue Mirror Lens
CRWF2142	Frostbite®, Frost White Frame, Grey Lens

STORM®

Storm offers extreme comfort in a wraparound lens construction, plus the ratchet-action temples are combined with nonslip rubber head grips to create a customized fit. This popular style is lightweight and has scratch-resistant polycarbonate lens that filter out 99.9% of UV radiation. Meets ANSI Z87.1-1989.



Part #	Description
CRWST110	Storm®, Black Frame, Clear Lens
CRWST112	Storm®, Black Frame, Grey Lens
CRWST114	Storm®, Black Frame, Amber Lens
CRWST117	Storm®, Black Frame, Silver Mirror Lens
CRWST119	Storm®, Black Frame, Indoor-Outdoor Lens
CRWST120	Storm®, Navy Frame, Clear Lens
CRWST122	Storm®, Navy Frame, Grey Lens
CRWST128	Storm®, Navy Frame, Blue Mirror Lens
CRWST130	Storm®, Red Frame, Clear Lens
CRWST132	Storm®, Red Frame, Grey Lens

SPEC SAVERS

ANTI-STATIC, ANTI-FOG cleaning towelettes (100/Box, 10 boxes/cs)



Part #	Description	Pack
CRWLCT	Spec Savers	100/bx

Eye & Face Protection



Aluminum Rim Headgear Bracket

(shown with faceshield*)
CRW102



Part #	Description
CRW102	Aluminum Rim, Headgear Bracket
CRW103	Ratchet Take-up Headgear
CRW181540	Faceshields, Polycarbonate Material
CRW181640	Faceshields, PETG Material

Ratchet Take-up Headgear

(shown with faceshield*)
CRW103



Verdict® Goggle

Crews premium VERDICT® goggle, as well as all their protective goggles, can be worn with most half-mask respirators and fits over most prescription frames. The VERDICT® is available with an optional foam lining and with either an elastic headband or a neoprene headband. As part of the RX Option® System, the Verdict is also available with prescription lens inserts.



Verdict® Goggle



Verdict Goggle



Economy Goggle



Chemical Splash Goggle

Part #	Description	Size
CRW2400	Verdict Goggle, clear lens	
CRW2400F	Verdict Goggle, clear lens with foam lining	
CRW2220	Economy protective goggle, clear lens	Regular
CRW2230R	Chemical splash protective goggle, clear lens	

Personal Cooling Apparel



CardioCOOL Vest

The CardioCOOL Vest is ideally suited to help regulate body core temperature in low to high heat threat environments, with focused attention on the upper body.

Primary Features

- Snug fit allows vest to be worn unnoticeably under a wide range of outer clothing
- Lightweight design (approx. 1.5 lbs / 0.7 kg)
- Connects easily to all Med-Eng cooling units
- Available in optional Flame Resistant (FR) material or PCM Phase Change Material



Part #	Description
MED1105-146	Polyester/cotton, small
MED1105-148	Polyester/cotton, medium
MED1105-149	Polyester/cotton, large
MED1105-150	Polyester/cotton, X-large
MED1105-151	Polyester/cotton, XX-large
MED1105-346	Kermel/PCM, small
MED1105-348	Kermel/PCM, medium
MED1105-349	Kermel/PCM, large
MED1105-350	Kermel/PCM, X-large

COOLTUBEsuit

The COOLTUBEsuit is engineered for maximum yet controllable cooling in extreme heat environments.

Primary Features

- Modular, full body coverage using 3 components (hood, shirt and trousers)
- Components may be used separately to meet specific cooling requirements
- Fits comfortably under most outer clothing
- Available in Flame Resistant (FR) material



Part #	Description
MED420-018	COOLTUBEsuit, hood
MED420-121	COOLTUBEsuit, shirt, small
MED420-122	COOLTUBEsuit, shirt, med/small
MED420-123	COOLTUBEsuit, shirt, medium
MED420-124	COOLTUBEsuit, shirt, large
MED420-125	COOLTUBEsuit, pants, small
MED420-126	COOLTUBEsuit, pants, med/small
MED420-127	COOLTUBEsuit, pants, medium
MED420-128	COOLTUBEsuit, pants, large

PortaCOOL

The PortaCOOL is secured to an individual user for complete mobility and autonomous cooling.

Primary Features

- Lightweight and compact design integrates with a wide variety of Personal Protective Equipment
- User easily controls cooling rate
- Secures around the waist in multiple front, back and side configurations
- Powered by "D" cell batteries
- Cooling bottle can be quickly and easily replaced to prolong cooling duration
- **2 man dual cool system available**

Part #	Description
MED1105-403	PortaCOOL
MED110-004	HS50 replacement ice bottle (2 liter)



VersaCOOL Electric & Pneumatic Models

The VersaCOOL is engineered to simultaneously cool multiple users before, during or after active duty.

Primary Features

- Versatile: Ideal for low to extreme heat threat environments
- Electric and Pneumatic models available to satisfy power and safety requirements
- Rugged and lengthy tether system permits user mobility over a wide area
- Easily transported and stored using recessed handles and removable wheels
- Ideal for cooling 2 to 10 users at once



Part #	Description
MED1105-659	VersaCOOL Pneumatic, 5-man
MED1105-662	VersaCOOL Pneumatic, 10-man
MED1105-651	VersaCOOL Electric, 5-man
MED1105-653	VersaCOOL Electric, 10-man

**Coming Soon: Refrigeration Units.
No Ice Required!**

Personal Cooling Apparel



Cool-Off

- Dual use, neck wrap or headband.
- Extra length for better cooling; longest in the industry.
- Quilted into four sections for more even hydration and comfortable wear.
- Shorter hydration time, 20 minutes for up to 72 hours cooling effect.
- Double hole design for cinching and locking headband.
- Cooling crystals that absorb and lock in water.
- Six colors to choose from.

Part #	Description
ALG8405-50	Cool-Off, cowboy red
ALG8405-51	Cool-Off, cowboy blue
ALG8405-52	Cool-Off, camouflage
ALG8405-53	Cool-Off, royal blue
ALG8405-54	Cool-Off, American flag
ALG8405-55	Cool-Off, high-viz orange

Cooling Bandana

Soak this bandana for 7 to 9 minutes and stay cool for up to 72 hours. It keeps you cool through evaporation. Wear under hard hats or alone on top of your head or around the neck. Has a button hold closure or can be tied for a secure fit.



Part #	Description
ALG8410-51	Cowboy blue
ALG8410-54	American flag



Standard Cooling Vest

This standard cooling vest is lightweight and when soaked in water for 2 to 5 minutes, provides all day cooling comfort. Snap closures allow for quick access. Available in royal blue and made of 100% cotton. Hand washable. Also available in fire retardant material.

Part #	Description
ALG8401-03	Standard Cooling Vest L
ALG8401-04	Standard Cooling Vest X L
ALG8401-05	Standard Cooling Vest XX L



Cooling Beanie

Designed to keep you cool in intense heat situations, the beanie can be worn alone or under a hat. Great for road and utility crews. Adjustable elastic and Velcro® closure for one size fits all. Available in royal blue and made of 100% cotton.

Part #	Description
ALG8408	Cooling Beanie

Hard Hat Cooling Liner

Simply soak this liner for 30-60 seconds in cold water and feel instant relief that lasts all day. Attaches to the hard hat with an easy elastic/Velcro® closure. One size fits most. Hand washable. Available in royal blue and made of 100% cotton.



Part #	Description
ALG8407	Hard Hat Cooling Liner



Personal Cooling Apparel

MiraCool

MiraCool cooling crystals, encased within 100% cotton fabric, absorb and hold up to 1,000 times their weight in cool refreshing water. MiraCool crystals work in combination with the evaporation process. When worn against the head, neck, or body, cooling sensations are passed to pulse points and carried throughout the body. MiraCool products are ideal for anyone working or playing in a warm environment, indoors or out. Just soak them in cold water for 10-20 minutes. They stay hydrated for several days. Reuse them thousands of times. MiraCool increase alertness and productivity and works without freezing or ice.

OccuNomix
international inc



#940 Bandana



#954 Headband



#968-01 Hard Hat Pad

The head has many blood vessels close to the skin which influence body temperature. MiraCool Hard Hat Inserts use your head to stay cool.

Part #	Description
OCC968-01	MiraCool, Hard Hat Pad, Navy

Part #	Description
OCC940-01	Bandana, MiraCool, Navy Blue*
OCC940-HVO	Bandana, MiraCool, High Viz Orange*
OCC954-01	Headband, MiraCool, Navy*

*Other colors available

Phase Change Cooling System

- Superb in searing heat
- No evaporation required
- Wear directly against body
- No frostbite or pain
- Energize in minutes
- Lasts for hours
- No pumps, mechanical devices or tethering
- Charge in ice water or freezer
- Perfect for Hazmat suits



PCP2 (pair)
Fits PC2A & PC2B Vests



PCP1 (pair)
Fits PC1 Vest

- Submerge Cool Packs in ice and water for 20-30 minutes or in refrigerator or freezer for 30-45 minutes. The clear liquid will phase change to a white semi-solid.
- Insert energized Cool Packs into fabric vest and affix them into position. Slip vest on and adjust shoulder and side straps.



PC1 PHASE 1 VEST

Shirt Style - 3.3 lbs.
More than 20" Reflexlite®
Comes w/PCP1 Cooling Packs

Part #	Description
OCCPC1	PC1 Phase 1 Vest



PC2A PHASE 2A VEST

61% More Cooling Coverage
Shirt Style - 3.3 lbs.
More than 30" Reflexlite®
Comes w/PCP2 Cooling Packs

Part #	Description
OCCPC2A	PC2A Phase 2A Vest



PC2B PHASE 2B VEST

Same as 2A
PLUS More than 68" Reflexlite®
Comes w/PCP2 Cooling Packs

Part #	Description
OCCPC2B	PC2B Phase 2B Vest

Hearing Protection

Max® Disposable

Max® (NRR 33) pre-shaped foam earplugs feature a smooth outer skin for maximum user comfort. The NRR 33 rating makes MAX® the highest rated earplug in the U.S. The smooth, soil-resistant skin helps prevent foreign material from penetrating the surface while rolling prior to insertion. Attenuation tested in accordance with ANSI S3.19-1974. Noise reduction rating NRR 33 dB, SNR 34 dB. Orange.



Part #	Description	Quantity
HLIMAX-1	Max, without cord, self-dispensing boxes	200 pr/bx
HLIMAX-30	Max, with cord, self-dispensing boxes	100 pr/bx

MaxLite® Disposable

MAX-LITE® (NRR 30) low pressure foam earplugs offer long term user comfort not found in other pre-shaped foam earplugs. The non-irritating, non-allergenic self-adjusting foam recovers to fit virtually any ear canal. MAX-LITE® is ideal for that portion of the population with smaller ear canals. Attenuation tested in accordance with ANSI S3.19-1974. Noise reduction rating NRR 30 dB, SNR 34 dB. Green.



Part #	Description	Quantity
HLILPF-1	Max-lite, without cord, self-dispensing boxes	200 pr/bx
HLILPF-30	Max-lite, with cord, self-dispensing boxes	100 pr/bx

Laser Lite® Disposable

LASER-LITE® (NRR 32) is the multi-color earplug that workers love to use. The non-irritating, non-allergenic self-adjusting foam recovers to fit virtually any ear canal. LASER-LITE® is ideal for that portion of the population with smaller ear canals. Attenuation tested in accordance with ANSI S3.19-1974. Noise reduction rating NRR 32 dB, SNR 35 dB. Magenta/Yellow.



Part #	Description	Quantity
HLILL-1	Laser Lite, without cord, self-dispensing boxes	200 pr/bx
HLILL-30	Laser Lite, with cord, self-dispensing boxes	100 pr/bx

Quiet® Reusable

QUIET® is a reusable foam earplug that requires no rolling prior to insertion. Insert using the built-in flexible orange stem. Washes with soap and water for weeks, or even months of protection. Attenuation tested in accordance with ANSI S.3.19-1974. Noise reduction rating NRR 26 dB, SNR 28 dB. Orange.



Part #	Description	Quantity
HLIQD-30	Quiet, with cord, self-dispensing boxes	100 pr/bx
HLIQD1-PK	Quiet, without cord, self-dispensing boxes	100 pr/bx

LM-77 Folding Muffs

Never before has such a high attenuating earmuff been available in such a small package! LM-77 is super compact for easy storage when not in use. Noise reduction rating NRR 28 dB, SNR 32 dB. Available in Cobalt Blue (LM-77-BU) or Rocket Red (LM-77-RD).



Part #	Description
HLILM-77	Leight Muff, folding style

QM24 +

QM24 + (NRR 24) is a three-position, ultra-lightweight earmuff. Weighs only 6 oz. for comfort during prolonged usage. The high visibility red cups and black band add style to an extremely functional earmuff. Supplied with adjustable crown strap for a secure fit when worn behind the head or under the chin. Low cost cushions are easily removed for replacement.



Part #	Description
HLIQM24+	QM24 + , dielectric, crown strap



Communication Equipment

Decontamination Communication Kit 1

Provides simultaneous two-way voice communication between the five people in a decontamination team, wearing face masks, and clothed in air-fed encapsulated suits. Configured for a decontamination team of five: administrator (takes notes); washer/wetter; stripper; flusher; clother. The System is completely waterproof and resistant to chemicals. Decontamination kit can be expanded for up to 14 people using available options and accessories. Communication cable can be increased up to a maximum length of 1,500 feet per team member. Excellent communication device for bomb squads. Intrinsically safe, does not emit radio frequency. Expansion packs available to get up to 14 people on one system.



Kit 1 includes:

- 1 CSI-2100 command module
- 1 headset (single, behind head = 32°)
- 4 speaker harness
- 1 clothing clip, heavy duty
- 1 2000 system carrying case
- 1 double splitter with mic control switch
- 4 face mask communication set
- 1 boom mic wind screen
- 1 20' ext. cable with mute
- 4 100-ft. communication cable with strain relief and snap hook

Part #	Description
CNS0103-04-051	Decontamination Communication Kit 1

Con-Space Rescue Communication Kits are:

- easy to use
- lightweight & portable
- battery powered
- completely waterproof
- chemical resistant
- intrinsically safe
- rugged construction

First Responder Rescue Kit 1P

Configured for a team of five rescuers: four entrants, one attendant, for 100-foot entry. Additional cable can increase entry distance up to 1,500 feet.

Kit includes:

- 4 speaker harness
- 4 100-ft. communication cable
- 1 boom mic wind screen
- 2 operator extension cables with mic mute switch -01', 20'
- 1 heavy-duty clothing clip
- 1 System 2000 carrying case
- 4 face mask comset with universal speaker
- 1 Power Talk Box module
- 1 CSI-2100 Command Module
- 1 head set (single, behind head -32°)
- 1 50-ft. communication cable
- 1 splitter box, double with mute



Power Talk Module

Part #	Description
CNS0103-04012P	First Responder Kit 1P with Power Talk Module

Victim Locator Kit

For structural collapse. Includes the unique CON-SPACE Rescue Probe designed to detect and communicate with victims trapped in collapsed structures.

The Probe is a stainless steel, rugged, waterproof, two-way communication device which can be lowered or pushed through rubble to contact victims.



Victim Locator Kit includes:

- 1 Rescue probe
- 1 CSI-1100 Mini Module
- 1 headset (double, behind head -32° with mic mute switch)
- 1 boom mic with wind screen
- 1 25' communication cable
- 1 PVC pipe coupler
- 1 rope coupler
- 1 System 1000 carrying case
- 1 1' mic mute switch
- 1 50' lowering rope with snap hook (not shown)

Part #	Description
CNS0103-10-031	Victim Locator Kit

Fall Protection / Confined Space

Every DBI/SALA harness combines maximum comfort, freedom of movement and ease of use-without sacrificing safety. All harnesses are designed to securely retain you in case of a fall and distribute the impact forces throughout your thighs, buttocks, chest and shoulders.



Our exclusive Delta No-Tangle™ pad holds the shape of the harness, adding to your comfort, and making it easier to put on. This added comfort and ease of donning has greatly increased worker acceptance and reduced the possibility of improper usage.

Because they are constructed from polyester webbing, our harnesses offer better resistance to sunlight and chemical degradation than those made of other materials. With many different styles and various D-ring, leg strap and buckle options, there is always a model available to meet your specific needs.

DBI/SALA harnesses were developed and engineered in full compliance with applicable industry standards including OSHA, ANSI Z359-1992, ANSI A10. 14-1991, and CSA Z259.10-M90 regulations.

* Product numbers followed by an * do not meet CSA Standards

Full Body Harness

DBI1101655



- Tongue buckle leg straps
- Back D-ring
- Body belt with side D-rings
- Sewn-in back pad
- Sewn-in shoulder pads
- Sizes: Large (SM-3XL avail.)

Dorsal Web Loop Full Body Harness

DBI1104730 *



- Use with web loop lanyards for ultimate safety
- Reduced weight and electrical conductivity
- Vest-style
- Pass-thru buckle leg straps
- Non-conductive/non-sparking PVC coated hardware

Back view of DBI1104730

- Dorsal web loop (replaces back D-ring)
- Size: Universal

ShockWave2™

ShockWave2™ lanyards are stretchable for complete freedom of movement. They expand to 6 ft. and contract to 4-1/2 ft. in reaction to your movements, reducing trip fall hazards, dragging and snagging. In case of a fall, the unique inner core immediately begins to extend and absorb energy, limiting arresting forces to 900 lbs. or less.



DBI1224306 *

- Expands to 6 ft. and contracts to 4 1/2 ft.
- Abrasion resistant tubular webbing
- Self-locking snap hooks at ends
- Impact indicator



DBI1224409 *

- Expands to 6 ft. and contracts to 4 1/2 ft.
- Twin-leg 100% tie-off type
- Self-locking snap hook at center, aluminum hooks (2 1/4" opening) at leg ends
- Impact indicator



Tested by the pros.
All DBI/SALA lanyard hardware is proof tested to meet or exceed industry standards.

Easy connections, even with gloves on!
Our patented, user friendly self-locking snap hooks open and connect without thumbs or fingers getting in the way. They're industry-preferred!

Fall Protection / Confined Space

ROPE GRABS & LIFELINES

DBI/SALA has you covered with a complete line of mobile and static rope grabs for both synthetic fiber rope and steel wire cable, along with a wide variety of lifelines to meet your work needs. All of our rope grabs are made of high grade corrosion resistant materials. Our most popular LAD-SAF® rope grabs automatically follow you, giving you maximum freedom and hands-free operation. They can be detached or removed anywhere along the lifeline. The rope grabs utilize a cam lever as well as a friction sensitive brake to lock the rope grab onto the lifeline in case of a fall, even if the operator holds the device open in a panic situation. They will also reduce the arresting forces on a worker if there is a fall. We manufacture a complete range of lifelines for use with our rope grabs. They are available in 5/8 inch or 3/4-inch polyester or polyester/polypropylene blend rope and in cut lengths or assemblies that include a self-locking snap hook at one end. DBI/SALA offers several styles of counterweights to keep the lifeline taut and optimize performance of the rope grab.



DBI5003050 LAD-SAF® Rope Grab System

- 5/8" dia. rope grab (5001441)
- 50 ft. lifeline (1202794)
- Flexible counterweight, 5.7 lbs. (5901583)
- 3 ft. EZ Stop® II shock absorbing lanyard (1220007)
- 3 ft. tie-off adapter (1002000)
- Carry bag (9511597)

Similar Model:
DBI5003100: with 100' lifeline



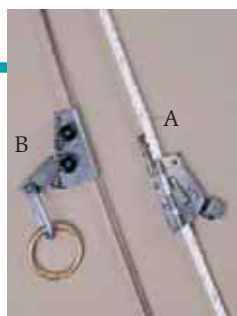
DBI1220007 EZ Stop® II

- 3 ft. EZ Stop® II shock absorbing lanyard

A. 5001441 LAD-SAF® Mobile Rope Grab

- Inertia/cam locking system
- Energy (shock) absorbing design
- Detachable
- Fits 5/8" dia. rope lifeline
- Corrosion resistant aluminum and stainless steel construction

Similar Model:
DBI5001442: fits 3/4" dia. rope lifeline



DBI1202754 Lifeline Assemblies

- 5/8" polyester/polypropylene blend rope
- Self-locking snap hook at one end
- Taped at other end
- 30 ft. long

Similar Models:
DBI1202794: 50'
DBI1202821: 75'
DBI1202844: 100'

B. 5000338 LAD-SAF® Static Wire Rope Grab

- Patented wedging action grips and locks onto cable lifeline
- Attachment ring for connecting to lanyard
- Fits 3/8" dia. 7x19 galvanized or stainless steel cable
- Detachable
- Stainless steel construction

IMPORTANT: Max. lanyard rope grab length
DBI5001441 3 ft.
DBI5001442 3 ft.
DBI5000338 4 ft.



Fall Protection / Confined Space

SELF RETRACTING LIFELINES

DBI/SALA was the first in the industry to develop self retracting lifelines (SRLs) and they are still the most popular products of their kind available anywhere! SRLs extend and retract automatically, letting you comfortably move about at your normal speed within a recommended working area, while operating at peak efficiency. From the lightweight 8 ft. Talon™ to our 175 ft. SRL, DBI/SALA always has a model for your specific job.

Every DBI/SALA SRL meets or exceeds all applicable industry standards, including OSHA, ANSI A10.14-1991, ANSI Z359.1-1992 and CSA requirements.

Sealed SRLs

These SRL's incorporate a revolutionary patented concept that separates all dynamic components, including the motor spring and brake, from foreign elements such as grease, moisture and dirt. You always know your SRL is operating at peak efficiency, without worries about what is happening inside the housing, no matter how dirty or damp your environment!



DBI3403400

- Corrosion-resistant cast aluminum/stainless steel housing
- Self-adjusting disc brake
- Reserve lifeline retention system
- $\frac{3}{16}$ " galvanized steel wire rope (stainless avail.)
- Self-locking swivel snap hook with impact indicator
- 50 ft. long
- Weight = 12 lbs.

Similar Models:

DBI3403401: 50 ft. stainless steel
DBI3403500: 85 ft. galvanized
DBI3403501: 85 ft. stainless steel
DBI3403600: 130 ft. galvanized
DBI3403601: 130 ft. stainless steel

Non-sealed:

DBI3400610: 175 ft. galvanized
DBI3400611: 175 ft. stainless steel



DBI3403402

- Includes all features of 3403400
- Built-in retrieval winch for raising/lowering load during emergencies
- Weight = 36 lbs.

Similar Models:

DBI3403403: 50 ft. stainless steel
DBI3403502: 85 ft. galvanized
DBI3403503: 85 ft. stainless steel
DBI3403602: 130 ft. galvanized
DBI3403603: 130 ft. stainless steel

A retraction that lasts.
Our heavy-duty main spring maintains its exact retraction for the life of the product; just one more example of DBI/SALA's commitment to excellence in quality.

TRAILER DEMOS

Workers from all over the world enjoy learning from our hands-on presentations of DBI/SALA fall arrest, restraint and rescue equipment. Our Mobile Test Trailers come right to your site, equipped with a drop-test stand and force measuring instruments to demonstrate the arresting forces workers could (and would) experience during a fall. We also demonstrate how to use, care for and maintain your DBI/SALA safety equipment.

CALL ANY OF OUR
EXPERIENCED TEAM MEMBERS
TODAY FOR MORE INFO



Fall Protection / Confined Space

TALON™ WEB SRLs

Talon SRLs are engineered for reliable protection that locks when it should; won't lock when it shouldn't. The extremely lightweight design (just under three pounds!) and quick-connect system gives you freedom of movement without compromising your safety.



DBI3101001 Built-in Quick Connector Series

- 1" wide nylon webbing lifeline
- Quick-connector handle
- Self-locking swivel snap hook with impact indicator
- 8 ft. long
- Weight = 3.0 lbs.



Similar Models:

- DBI3101000: with 9503175 snap hook
- DBI3101002: with 2000523 steel carabiner (3/4" opening)
- DBI3101003: with 2000108 steel carabiner (2" opening)
- DBI3101004: with 2004339 alum. hook with eye (3/4" opening)
- DBI3101005: with 2007199 steel swiveling carabiner with eye (3/4" opening)
- DBI3101006: with 9510057 steel flat rebar hook with eye (2 1/4" opening)
- DBI3101007: with 2007153 aluminum snap hook with eye (2 1/4" opening)



DBI3101009 Built-in Order Picker Connector Series

- 1" wide nylon webbing lifeline
- Order picker connector
- Self-locking swivel snap hook with impact indicator
- 8 ft. long
- Weight = 3.3 lbs.



Similar Models:

- DBI3101008: with 9503175 snap hook
- DBI3101010: with 2000523 steel carabiner (3/4" opening)
- DBI3101011: with 2004339 alum. hook with eye (3/4" opening)
- DBI3101012: with 2007199 steel swiveling carabiner with eye (3/4" opening)



HORIZONTAL LIFELINE SYSTEMS



DBI7602020

Sayline™ Cable Horizontal Lifeline system

- Cable lifeline assembly
- Turnbuckle to tension
- Zorbit™ energy absorber
- Cable grip
- 20' long

Similar models available 30' to 100'

DBI7401031

Zorbit™ Kits

- Allows you to customize your own system safely
- Zorbit™ energy absorber
- 2 shackles
- 2 bolts/nuts

Similar Models:

- DBI7401032: with turnbuckle
- DBI7401033: with turnbuckle, thimble and cable clips (just add your own cable)



Sayline™ Horizontal Lifeline Systems Simple, Reliable and Safe!

Sayline™ horizontal systems are not only lightweight and easy to install, they are also extremely portable. Just disassemble and take to the next job. Engineered with DBI/SALA attention to quality and detail, the Sayline™ systems will work alongside you with absolute safety and reliability.

DBI7600020

Sayline™ Synthetic Horizontal Lifeline System

- Easily installed with no special tools or equipment
- Lightweight, only 12 lbs.
- Rope lifeline assembly with tensioner
- Two tie-off adapters
- 20 ft. long
- Carrying/storage bag

Similar Models:

- DBI7600030: 30 ft. system
- DBI7600040: 40 ft. system
- DBI7600050: 50 ft. system
- DBI7600060: 60 ft. system



Fall Protection / Confined Space

ANCHORAGE CONNECTORS

DBI/SALA manufactures the industry's widest range of anchorage connectors, combining ease of use, light weight and high strength (5000 lb. min. tensile strength). No matter what you are connecting to, DBI/SALA has a connector to get the job done and keep you safe in case of a fall.



DBI1003000 Pass-thru Tie-off Adapter

- 1³/₄" polyester strength member
- 3" wide polyester wear pad
- 3 ft. long (other lengths available)

Similar Models:

DBI1003006: 6 ft. length
DBI1002106: 6 ft. adjustable

DBI2101630 D-ring Anchorage Plate

- Bolt or weld to structure
- Two 1/2" dia. attachment holes
- Stainless steel
- Plate size 1/4" x 2" x 4 1/4"



Similar Models:

DBI2101634: with raw steel

WINCHES

Sealed self-retracting lifelines with emergency retrieval features are spring tensioned for normal work motions. However, if you slip or fall, the sudden jerk in the cable activates the braking mechanisms and brings you to a stop. The system then provides emergency retrieval.

- Input handle with primary brake
- Overload device in winch drive
- Fall arrest capabilities in retrieval mode
- Heat treated alloy steel gears, alloy steel shafting and sealed ball bearings
- 50 ft. of 3/16" galvanized cable
- Steel indicating swivel hook
- Quick-mount bracket DBI3401065 and carrying bag DBI9503515

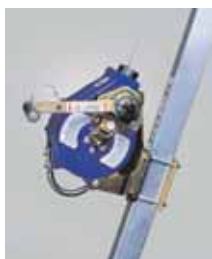
Similar Models:

DBI3400108: with stainless steel cable
DBI3400311: 85 ft. galvanized cable
DBI3400309: 85 ft. stainless
DBI3400509: 130 ft. galvanized cable
DBI3400508: 130 ft. stainless steel



DBI3400115

Sealed SRL
Fall Protection &
Rescue Device



First-Man-Up™ System

A simple and easy way to anchor a fall protection device to an overhead location and beyond normal reach.



DBI2104519 First-Man-Up™ System

- 6 to 12 ft. adjustable pole (DBI2104523)
- Tie-off adapter tool (DBI2104521)
- Hook attachment (DBI2104522)
- Tie-off adapter (DBI1003000)
- Carrying bag (DBI9511597)
- Training video (DBI5902302)

Similar Model:

DBI2104520: 8 to 16 ft. adjustable pole



DBI1201390 Scaffold Choker with D-ring

- 17" long
- Fits 3" max. diameter structure



DBI1220145 Girder Grip

- Pivoting wing-bar provides the girder lock
- Finger grips in center for easy tightening
- Fits .79" to 1.25" (20-32mm) diameter hole in a .25" to 1.25" (6-32mm) thick steel beam
- With 5 ft. EZ Stop® II shock absorbing lanyard



Fall Protection / Confined Space



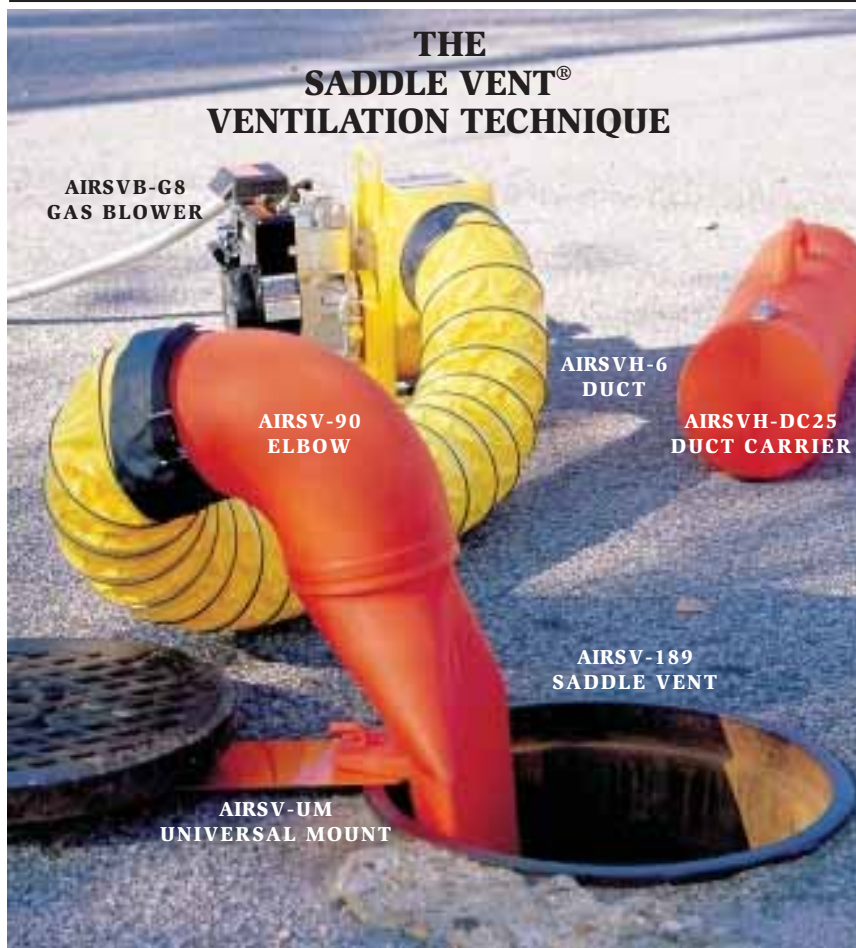
INDUSTRIAL SADDLE VENT® CONFINED SPACE ENTRY VENTILATION TECHNIQUE



The Saddle Vent® was invented by a professional tank cleaner to make it easy for his workers to enter and exit a confined space. The Saddle Vent® takes up only 3 inches in a manhole and functions as an air conduit. An eight inch air hose is attached to both ends of the Saddle Vent® and placed in the entry access hole, thus eliminating the need to remove the hose each time entry or egress is required. The Saddle Vent® revolutionizes confined space operations by offering a level of safety and productivity that has never been available. One model is available for industrial manhole work and a specific model is designed for doing tank entry work. The Saddle Vent's® unique air flow design does not reduce air flow to the worker.

CONFINED SPACE ENTRY VENTILATION "DO IT RIGHT THE FIRST TIME"

INDUSTRIAL MODEL SADDLE VENT® #AIRSV-189



Saddle Vent® is the Registered Trademark of Air Systems International



- Length: 43.5"
- Width: 14.5"
- Depth: 3.5"
- Top Opening: 8" O.D.
- Bottom Opening: 8" O.D.
- Construction: .25" Polyethylene
- Temperature Rating: + 250°F Melt Temp. - 158°F Brittleness
- Color: Safety Orange
- U.S. PATENTS #4,794,956 #4,982,653
- CANADIAN PATENT #1,286,999
- EUROPEAN PATENT #0376425
- AUSTRALIAN PATENT #120711



Air duct set in a manhole limits light and restricts the worker's entry & egress.

The Saddle Vent® when set in place, allows unrestricted entry and egress and allows for more rapid confined space emergency rescue.

The Saddle Vent® ventilator provides continuous access to the manhole for either entry or egress. Traveling in and out of the confined space can now be done quickly and safely. The Saddle Vent® increases worker productivity as well as the ability to perform confined entry rescue. The entire Saddle Vent® system can be completely set up in less than five minutes. Eight inch air duct is installed on the bottom of The Saddle Vent® and run to the bottom of the manhole. This allows fresh air to be supplied to the workers and displaces any harmful gases that may be deadly for the occupants. The use of the 90° elbow removes the severe kink in the air duct and allows for rotation of the intake duct to any desired position at the street level.



Fall Protection / Confined Space



APPROVED and CE REGISTERED FANS AND BLOWERS



PORTABLE FANS AND BLOWERS

CONFINED SPACE VENTILATION KITS



- ALL KITS INCLUDE 1 EACH OF THE FOLLOWING:
- 1) A blower of your choice
 - 2) Industrial style Saddle Vent®
 - 3) 15 ft. duct
 - 4) 6 ft. duct
 - 5) Duct canister (holds both ducts)
 - 6) Universal mount
 - 7) 90° elbow for Saddle Vent®

Saddle Vent® is the Registered Trademark of Air Systems International

Model	Description
AIRSVB-E8SCUP	Standard Electric Blower Kit
AIRSVB-E82CUP	2-Speed Electric Blower Kit
AIRSVB-G8CUP	Gasoline Blower Kit
AIRSVB-A8CUP	Pneumatic Blower Kit
AIRSVB-E8XCUP	Explosion-Proof Electric Blower Kit
AIRSVB-E8CUP	Economy Electric Blower Kit (PICTURED AT LEFT)

Saddle Vent® Ventilation Technique



CE Approved
Registered

Ask about the Tank Model Saddle Vent

AXIAL Blowers

AIR9514-25 AC AXIAL BLOWER W/ CANISTER-25

This complete ventilating system offers 25 feet of attached ducting that is stored in the built in canister. Remarkably lightweight at only 46 lbs., the 8" axial blower is very easy to use. Certified to CSA standard C22.2 NO 113.



AIR9514-25

AIR9506-25 DC AXIAL BLOWER W/CANISTER-25

This complete ventilating system includes 25' of attached ducting that is stored in the built in canister, and can be set upright for minimum storage space. Remarkably lightweight at only 44 lbs., this 8" axial blower is very easy to use.



AIR9506-25

Part #	Description	Free Air	One 90° bend	Two 90° bend	Weight	H.P.	Power
AIR9514	AC Axial Blower w/canister-15	1275	661	582	36 lbs.	1/3	3A/115V
AIR9514-25	AC Axial Blower w/canister-25	1275	661	582	46 lbs.	1/3	3A/115V
AIR9506-01	DC Axial Blower w/canister-15	1150	595	530	34 lbs.	1/4	13A/12V
AIR9506-25	DC Axial Blower w/canister-25	1150	595	530	44 lbs.	1/4	13A/12V
AIR9513	AC Axial Blower	1275	661	582	20 lbs.	1/3	3A/115V





NORTH

Safety Products

V-SAFE™ Wheel Valve Lockouts

BSPVS02 - 1" to 2 1/2"

NSPVS04 - 2 1/2" to 5"

NSPVS06 - 5" to 6 1/2"

NSPVS09 - 6 1/2" to 10"

NSPVS13 - 10" to 14"



Made of strong polypropylene plastic and fully dielectric. Highly resistant to cracking and abrasion. Available in red, yellow, blue or green.

M-SAFE™ Safety Lockout Hasps

NSPMS01

Heavy duty nylon safety lockout hasp, heat and cold resistant, dielectric, highly flexible, holds up to 6 padlocks.



B-SAFE™ Ball Valve Lockout

NSPBS01 - Valves from 3/8" to 1 1/4"

NSPBS02 - Valves from 1 1/2" to 2 1/2"

NSPBS03 - Valves from 2" to 8"

B-SAFE ball valve lockouts are made of polypropylene plastic and are fully dielectric. Highly resistant to solvents and other chemical products. Available in red, yellow, blue or green.



B-SAFE™ Butterfly Valve Lockout

NSPBS04

Universal lockout for butterfly valves is made of strong polypropylene plastic and is fully dielectric. Highly resistant to solvents and other chemical products. Available in red, yellow blue or green.



C-SAFE™ Circuit Breaker Lockout

NSPCB01

A single pole lockout, CB01 requires a switch breaker with a recessed hole.



C-SAFE™ Circuit Breaker Lockout

NSPCB02

This double pole lockout requires the breakers to be connected with a cross bar for lockout application.



C-SAFE™ Circuit Breaker Lockout

NSPCB03

A single pole lockout, CB03 does not require a switch breaker with a recessed hole.



C-SAFE™ Circuit Breaker Lockout

NSPCB04

This double pole circuit breaker lockout will fit most major brands of electrical circuit breakers.



E-SAFE™ Electrical Switch Lockout

NSPES01

This easy to install device can be used in either the "on" or "off" position with most mounted switches.



ELA290/1

"DO NOT OPERATE" tags are made of stain resistant and mildew resistant 20 Mil styrene, 3" x 5 3/4". Also available with metal grommet.





Lockout Center, 18" x 24" LSE101F

Highly visible Lockout/Tagout centers make your locks, tags, hasps and lockout devices easy to find.

Includes:

- | | |
|------------|---------------------|
| (1) LSE101 | (2) VS02 |
| (1) VS04 | (1) VS06 |
| (1) BS01 | (2) LP110 |
| (1) LP550 | (1) MS86 |
| (4) MS01 | (1) ELA290 (25 pk.) |
| (1) 3D | (1) ELA255 (25 pk.) |

Lockout Center, 24" x 35" LSE102F

Highly visible Lockout/Tagout centers make your locks, tags, hasps and lockout devices easy to find.

Includes:

- | | |
|------------|---------------------|
| (1) LSE102 | (2) VS02 |
| (1) VS04 | (1) VS06 |
| (1) VS09 | (1) BS01 |
| (1) BS02 | (2) LP110 |
| (1) LP550 | (2) MS86 |
| (6) MS01 | (1) ELA290 (25 pk.) |
| (2) 3DLF | (1) ELA255 (25 pk.) |
| (2) 3D | (1) ELA250 (25 pk.) |



Lockout/Tagout Kit LK107FE

Lockout/Tagout kit provides all the necessary items to make lockout/tagout as convenient and easy as possible.

Includes:

- | | |
|-------------------------|----------|
| (1) Tool box w/tray 16" | (1) VS02 |
| (1) BS01 | (1) 3D |
| (1) 1DLJ | (1) MS01 |
| (5) ELA290/1 | (1) CB04 |
| (1) CB03 | (1) ES01 |
| (1) LP110 | |

GATORADE®

Gatorade is the optimal mix of carbohydrates to speed fluid absorption and prevent dehydration. It supplies rapid delivery of fluids and energy to help improve work performance. Gatorade contains the optimal amount of carbohydrates, providing energy to delay fatigue and allow workers to go longer, and stronger. It improves work performance more than drinking water alone. The scientific formulation of Gatorade helps you maintain peak job performance. The FDA classifies Gatorade as a "low sodium" beverage. Sodium plays a key factor in maintaining fluid balance and is essential for rapid fluid absorption. Gatorade is formulated with 110 mg of sodium per 8 oz. to help replace lost fluids and restore fluid balance. However, less sodium in a rehydration drink is less effective in replacing what you lose in sweat. It contains no caffeine or carbonation, which are the last things you want in a rehydration beverage. Carbonation inhibits drinking and can cause throat burn and stomach bloating. Caffeine and alcohol impair rehydration by promoting urine production and fluid loss.



Gatorade Flavors

Part #	Description	Size
GAT03965	Instant Powder, Lemon-Lime, 8.5 oz. pack makes 1 gallon	80 pk/cs
GAT03966	Instant Powder, Orange, 8.5 oz. pack makes 1 gallon	80 pk/cs
GAT03807	Instant Powder, Fruit Punch, 8.5 oz. pack makes 1 gallon	80 pk/cs
GAT33878	Instant Powder, Glacier Freeze, 8.5 oz. pack makes 1 gallon	80 pk/cs
GAT33674	Instant Powder, Riptide Rush, 8.5 oz. pack makes 1 gallon	80 pk/cs
GAT03969	Instant Powder, Lemon-Lime, 8.5 oz. pack makes 2 1/2 gallons	32 pk/cs
GAT03970	Instant Powder, Orange, 21 oz. pack makes 2 1/2 gallons	32 pk/cs
GAT33691	Instant Powder, Fruit Punch, 21 oz. pack makes 2 1/2 gallons	32 pk/cs
GAT33677	Instant Powder, Glacier Freeze, 21 oz. pack makes 2 1/2 gallons	32 pk/cs
GAT33673	Instant Powder, Riptide Rush, 21 oz. pack makes 2 1/2 gallons	32 pk/cs
GAT03944	Instant Powder, Variety pack, 21 oz. pack makes 2 1/2 gallons	32 pk/cs
GAT03967	Instant Powder, Lemon-Lime, 51 oz. pack makes 6 gallons	14 pk/cs
GAT03968	Instant Powder, Orange, 51 oz. pack makes 6 gallons	14 pk/cs
GAT33690	Instant Powder, Fruit Punch, 51 oz. pack makes 6 gallons	14 pk/cs
GAT33676	Instant Powder, Glacier Freeze, 51 oz. pack makes 6 gallons	14 pk/cs
GAT33672	Instant Powder, Riptide Rush, 51 oz. pack makes 6 gallons	14 pk/cs
GAT00901	11.6 oz. Cans, Lemon-Lime	24/cs
GAT00902	11.6 oz. Cans, Orange	24/cs
GAT30903	11.6 oz. Cans, Fruit Punch	24/cs
GAT33840	11.6 oz. Cans, Citrus Cooler	24/cs



Specialty COOLER colors and imprints quoted upon request!



SOLO® CONE WATER CUPS

Rolled rim paper cone cups.

Part #	Description
IGL4-R	Solo, 4oz. cone water cups, 200 sleeve/25 sleeves per case

RUBBERMAID® WATER COOLERS

- Drip-resistant spigot; leak-resistant lids
- Insulated to keep water or beverage cold
- Rubbermaid® is the industry leader in water coolers

Part #	Description	Size
GOT1692	Rubbermaid water cooler, orange	2 gal.
GOT1683	Rubbermaid water cooler, orange	3 gal.
GOT1695	Rubbermaid water cooler, orange	5 gal.
GOT1610	Rubbermaid water cooler, orange	10 gal.
GOT8250	Rubbermaid water cooler 4 oz. cup dispenser	

IGLOO® 400 SERIES PLASTIC WATER COOLERS

Rugged, durable Igloo 400 Series Industrial Strength Water Coolers keep water cold, clean and available. The 400 Series takes the abuse of the roughest job site and the most punishing work crews.

- HDPE hide won't chip, peel, buckle or rust
 - Reinforced handles and cup dispenser bracket
- All parts are replaceable - for extended life*

Part #	Description	Size
IGL421	Igloo 400 series	2 gal.
IGL431	Igloo 400 series	3 gal.
IGL451	Igloo 400 series	5 gal.
IGL4101	Igloo 400 series	10 gal.



Falcon Mighty Sonic™

The Lightweight, Portable, Long-Lasting Safety Horn



Quality built for long-lasting use, totally independent of any other power source. Portable Mighty Sonic now features the 100% ozone safe, non-flammable formulation from America's #1 name in pressurized signaling products! It delivers a piercing 120dB blast at 10 feet. Convenient push-button operation. Provides hundreds of reliable 2 second blasts in each replaceable canister. Guaranteed durable high-impact trumpet.

Falcon Super Sonic™

Trigger-Activated All-Metal Safety Horn



Built for endurance, lasting power and portability, the ultra strong Super Sonic is now 100% ozone-safe and non-flammable! All-metal horns in bright red or deluxe chrome plating. Shrill, piercing blast can be heard over normal industrial noise. Quick trigger operation. Can be used by security guards, hazardous or remote-area workers, heavy duty machinery operators. Replaceable canister delivers hundreds of 2-second blasts.

Part #	Description
FALMSN4	Falcon® Mighty Sonic™ Lightweight, Portable, Long Lasting
FALMSNR	Falcon® Mighty Sonic™ Refill
FALSSCN	Falcon® Super Sonic™ Chrome, Trigger Activated, All Metal
FALSSN	Falcon® Super Sonic™ Red, Trigger Activated, All Metal
FALSSNR	Falcon® Super Sonic™ Refill

SOUND 911® HORN

A touch of the thumb, a little pressure, and the Sound 911® Horn will scream out with a blast of 112dB at 10'. Carried on its own clip for belt or bag, it can travel with you. Use against intruders/ prowlers/ muggers. No wires or batteries needed. If a worker is injured or otherwise needs to get attention, the Sound 911 will blast the signal instantly. Each replaceable canister will deliver over 100, 2-second piercing blasts. Recommended for emergency signaling in plants and offices, the Sound 911 horn is also ideal for personal use in areas such as parking decks and on the street, to frighten muggers or unfriendly animals.

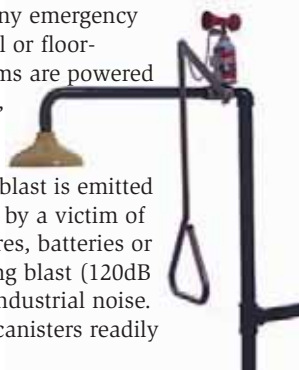


Part #	Description
FAL911	Falcon® Sound Horn, 911, Travel Size
FAL911-2R	Falcon® 911 Refill, 2/PK

FALCON® SAFETY SHOWER ALARM

Signaling Systems For Emergency Shower Configuration

Designed for instant signaling in any emergency drench shower -vertical, horizontal or floor-mounted. The Safety Shower Alarms are powered by Falcon's new Super Sonic Horn, with the 100% ozone-safe, non-flammable formulation! Chain connects to shower-pull so a loud blast is emitted the instant the shower is activated by a victim of chemical injury, burns, etc. No wires, batteries or auxiliary power required. A piercing blast (120dB at 10') can be heard over normal industrial noise. Falcon Super Sonic™ replacement canisters readily available.



Please Note: The Falcon Safety Shower Alarm may be adversely affected by some chemical environments and weather conditions. Not recommended for use at temperatures below 32°F (-1°C).

FALCON® EMERGENCY ALARM STATION

Highly Visible Safety-Yellow Wall-Box System

The 100% ozone-safe, non-flammable Emergency Alarm Station is perfect for low-cost protection - independent of any additional power source! The 20 gauge safety-yellow steel wall box is easy to locate and relocate wherever you need it! Mounts with just two screws. Padlock and key system provides protection while permitting periodic testing. Emergency handle assures immediate access to horn activated with the touch of a finger. The shrill, piercing blast can be heard over normal industrial noise. It can be used for fires, accidents, first aid calls, building evacuations. Falcon Super Sonic™ replacement canisters readily are available.



Part #	Description
FALSSA1N	Falcon® Safety Shower Alarm, Super Sonic Horn, for Vertical Mount
FALSSA2N	Falcon® Safety Shower Alarm, Super Sonic Horn, for Horizontal or Floor Mount Showers
FALTAD4N	Falcon® Emergency Alarm Station, Super Sonic Horn
FALSSNR	Falcon® Super Sonic Refill

FALCON®

7500 Portable Gravity Operated Eyewash

The 7500 is a portable gravity operated eyewash with 16 gallon capacity tank and is made of FDA high-density polyethylene material.

It has single top handle for easy carrying when empty and dual double-wide integral side handles to facilitate two person handling when filled.

It features a threaded cap and wide fill opening for easy filling, inspection and cleaning. In the stand-by position, eyewash heads are protected in a recessed area from airborne debris. A drain hose provided with unit. There are no loose parts to get lost or damaged.

The highly visible yellow arm distinguishes itself from the Safety Green tank allowing it to be easily located and activated. It provides over 15 minutes of full flow pattern flushing at not less than 0.4 GPM (1.5 liters per minute). It can be wall mounted (bracket included) or shelf mounted. Eyewash preservative permits storage of water for several months. A thermal protection jacket, cart, and waste water container are available at an additional cost.

7601.37 ASME Coded Portable Eyewash

The 7601.37 has a 37 gallon capacity ASME coded stainless steel type 304 tank with carry handle. Air pressure filled through tire-type air valve. Pressure gauge, safety release valve and tire-type valve are mounted on the tank. This portable eyewash has 30 gallons of usable water and the ASME rating 110 PSI maximum working pressure at 100°F. Air pressure filled to recommended 100 PSI. Relief valve set at 110.

7601.10.2 ASME Coded Portable Eyewash

The 7601.10.2 has a 10 gallon capacity with 7½ gallons of usable water. ASME rating 130 PSI maximum working pressure at 100°F. Air pressure filled to recommended 87 PSI. Relief valve set at 120.

7602.10 Portable 10 Gallon Eyewash

The 7602 Series portable eyewash has a 10 gallon capacity tank with 7½ gallons of usable water and a stainless steel carrying handle. Air pressure filled through tire-type valve (set at 120 PSI) and a tire-type valve are mounted on the tank and has an additional relief valve built in to the tank.



HAW7500



HAW7601.37



HAW7601.10.2



HAW7602.10

Part #	Description
HAW7500	Haws®, Gravity Operated Eyewash, Portable, 16 gallon
HAW7601.10.2	Haws®, ASME Coded Eyewash, portable, 10 gallon
HAW7601.37	Haws®, ASME Coded Eyewash, with cart, portable, 37 gallon
HAW7602.10	Haws®, Eyewash, portable, 10 gallon
HAW7602.10TW	Haws®, Eyewash, portable, with heater and insulating jacket for tempered water, 10 gallon

Haws®

KIDDE

Kidde Pro Line™ Tri-Class Dry Chemical (ABC) Fire Extinguishers Specifications:



Part #	KID466227	KID466288	KID466112	KID466204	KID466206
Capacity (lbs.)	2.6	4	5	10	20
UL Rating	1-A: 10-B:C	2-A: 10-B:C	3-A: 40-B:C	4-A: 60-B:C	10-A: 80-B:C
Height (inches)	15	16	16	21.2	22
Width (inches)	5.3	7.8	7.8	7.4	8.8
Diameter (inches)	3.3	4.5	4.5	5.1	7
Shipping Weight (lbs.)	4.2	8.8	9.8	19.2	31.7
Cylinder Material	Alum	Alum	Alum	Steel	Steel
Bracket Type Furnished	wall hanger	wall hanger	wall hanger	wall hook	wall hook
Operating Pressure (PSI)	100	100	195	195	195
Discharge Time (Secs.)	8 -10	8 -10	13-15	19-21	19 -22
Range (Ft. Max)	6	12	18	20	20
Temp Range (°F)	-40 to +120	-40 to +120	-40 to +120	-40 to +120	-40 to +120

Kidde Pro Line™ Regular Dry Chemical (BC) Fire Extinguishers Specifications:



Part #	KID466228	KID466207
Capacity (lbs.)	2.9	20
UL Rating	10-B:C	80-B:C
Height (inches)	14.4	21
Width (inches)	5.4	9.3
Diameter (inches)	3.25	7.2
Shipping Weight (lbs.)	4.7	31.3
Cylinder Material	Alum	Steel
Bracket Type Furnished	wall hanger	wall hook
Operating Pressure (PSI)	100	195
Discharge Time (Secs.)	8 - 12	20 - 25
Range (Ft. Max)	6	8
Temp Range (°F)	-40 to +120	-40 to +120

**Optional vehicle bracket available with certain models.
Ask an experienced PowerPlus Team Member for more information.**

Twin-Task Flashlights

Twin-Task™ 3C

- 6 LED/Xenon bulb combination flashlight offers super brightness and long run times.
- Constructed of titanium colored machined aluminum with knurled grip and pushbutton switch.
- 3 “C” Alkaline batteries provide up to 160 hours of run time for the LEDs and up to 3 hours for the Xenon bulb.
- Weight: .989 lbs.
- Dimensions: 1.7”D x 9”L.



Twin-Task 3C

Twin-Task™ 1L

- 3 LED/Xenon bulb combination Lithium battery powered flashlight offers super brightness.
- Constructed of titanium colored machined aluminum with knurled grip and pushbutton switch.
- One 3 volt Lithium battery provides up to 9.5 hours of run time for the LEDs and over one hour for the Xenon bulb.
- Weight: .247 lbs.
- Dimensions: 1.38”D x 4.09”L.



Twin-Task 1L

Twin-Task™ 2L

- 3 LED/Xenon bulb combination Lithium battery powered flashlight offers super brightness.
- Constructed of titanium colored machined aluminum with knurled grip and pushbutton switch.
- One 3 volt Lithium battery provides up to 28 hours of run time for the LEDs and over 2 hours for the Xenon bulb.
- Weight: .337lbs.
- Dimensions: 1.34”D x 5.43”L.



Twin-Task 2L

Part #	Description
STR51012	Twin-Task 3C
STR51014	Twin-Task 1L
STR51015	Twin-Task 2L

Luxeon™ Task Light™ Flashlights

3AA Luxeon™ Task Light™

- Ultra bright, super high-flux, Luxeon™ star, LED flashlight.
- Constructed of titanium colored machined aluminum with knurled grip and pushbutton switch.
- 3 “AA” Alkaline batteries provide up to 28 hours of continuous run time.
- Weight: .397 lbs.
- Dimensions: 1.34”D x 8.6”L.



Luxeon Task Light

Part #	Description
STR51016	3AA Luxeon Task Light

STREAMLIGHT

STREAMLIGHT

Fire Vulcan® Flashlight

Waterproof, rechargeable safety lantern constructed of high impact, ABS thermoplastic with cushioned grip handle. Features 1 high intensity 8 Watt Spot Halogen lamp and 2 blue taillight LEDs. Offers 2 modes: “steady” and “blinking”. Halogen lamp produces up to 65,000 candlepower and is rechargeable up to 500 times. Includes quick release shoulder strap, charging rack and both 120V AC and 12V DC charge cords. Orange.



Part #	Description
STR44400	Fire Vulcan flashlight, orange
STR44401	Fire Vulcan Vehicle Mount, orange

Survivor® – Division 1 Model Flashlight

Safety approved right angle rechargeable flashlight with Xenon bulb. Constructed of high impact nylon with unbreakable Lexan® lens, two position rotary switch and spring loaded clip with attachment ring. Run time of up to 4.25 hours between charges and up to 15,000 candlepower. Includes Fast Charge one hour charger holder and 120V AC charge cord. Orange.



Part #	Description
STR91001	Survivor flashlight, orange
STR91200	Survivor flashlight, yellow

Stylus® Pen Light

Ultra slim, waterproof, LED pen light. 100,000 hour white LED is visible from over a mile away. Features momentary blink or constant “on” switching. Aluminum body with ridged grip and pocket clip. (3) AAA alkaline batteries included in purchase.



Part #	Description
STR65018	Stylus pen light, white LED
STR65022	Stylus pen light, blue LED

STREAMLIGHT

Stinger® Rechargeable Flashlight

Compact, aluminum bodied, rechargeable flashlight with push button switch. Powerful xenon bi-pin bulb produces up to 15,000 candlepower for up to one continuous hour of use and features a spot to flood beam. 120V AC charge cord, charger holder and spare bulb in tailcap included. 7 3/8" long, 10 oz. black.



Part #	Description
STR75001	Stinger rechargeable flashlight
STR75014	Stinger rechargeable flashlight and 2 charger holders, black

PolyStinger® Rechargeable Flashlight

Powerful, compact, rechargeable flashlight is constructed of super tough, non conductive polymer with rubber non-slip grip and pushbutton switch. Xenon bi-pin bulb produces up to 15,000 candlepower for up to one continuous hour of use and offers spot to flood beam. 120V AC charge cord, charger holder and spare bulb in tailcap included. 7 3/8" long, 8.7 oz. Yellow.



Part #	Description
STR76014	PolyStinger rechargeable flashlight, 2 charger holders, yellow
STR76001	PolyStinger rechargeable flashlight
STR76000	PolyStinger rechargeable flashlight
STR75914	PolyStinger bulb replacement pkg (1 bulb)
STR76090	PolyStinger nylon holster



Xenon and LED ProPolymers®

Streamlight® proudly presents its full line of ProPolymer® flashlights, available in xenon bulb models and new LED models. These high performance, alkaline-powered flashlights are available in a variety of sizes, power, and run times to meet virtually any need or application. The entire ProPolymer line is Class I, Division 1-Approved for use in hazardous locations - unique for LED flashlights. Whichever ProPolymer fits your need, you can be sure that they all have the same legendary ProPolymer features: First, they are incredibly bright - and the LED models are long-lasting. They're also extremely tough and virtually unbreakable - all models are non-conductive, shock-resistant, corrosion-proof, and waterproof. And, with push-button switching for easy, one-handed operation, they're remarkably handy. Each ProPolymer model is available in yellow, black, and olive drab.

Part #	Description
STR67002	2AA Xenon ProPolymer flashlight
STR68254	4AA Xenon ProPolymer flashlight
STR33252	3C Xenon ProPolymer flashlight
STR33202	3C White LED ProPolymer flashlight
STR33212	4AA LED ProPolymer flashlight
STR62202	3C LED ProPolymer flashlight



VersaBrite®II

Tested Lumen Value: 8.8, Watts 1.8, Peak Beam Candlepower: 8,000.

Water resistant. Incorporates all the features of the original VersaBrite with the addition of a large 1" diameter modified spot reflector module. This covers four times the area of the collimated beam of the VersaBrite®.

Features:

- Color: Non-Glare Black
- Length: 4³/₁₆"



Stealthlite®

Tested Lumen Value: 31.5, Watts 3.18 Peak Beam Candlepower 10,000.

Water resistant. Unbreakable ABS body with hi-impact polycarbonate lens. Features Pelican's state-of-the-art Laser Spot™ Xenon lamp module with an unsurpassed white collimated light beam. Includes: one-handed safety switch operation, double shock mounted battery compartment and black lanyard. Operates 5-6 hours on 4 AA-cell Energizer® alkaline batteries.

Features:

- Color: Black, yellow and orange
- Length: 9¹/₂"



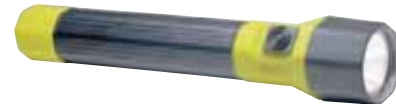
BLACK KNIGHT® Alkalines M10 Alkaline 4C (4 C-Cell batteries)

Tested Lumen Value: 68.3, Watts: 4.8, Peak Beam Candlepower: 30,000

Water resistant. Body made of Xenoy® with Polycarbonate lens. Pre-focused Xenon Laser Spot™ beam. O-ring sealed. Requires 4 C-cell alkaline batteries. (Batteries not included.)

Features:

- Colors available: black or yellow
- Length: 8³/₈"



King Pelican Lite™ Pro 4000 Series

Tested Lumen Value: 251.4, Watts 14.4 Peak Beam Candlepower 100,000.

Made of an unbreakable ABS housing with a hi-impact polycarbonate lens. INCLUDES: Dual filament Xenon backup safety lamp with 60 hours of lamp life (30 hours each filament), protective lens shroud and a shock absorbing internal battery module that protects 8 D-cells from hard abuse. Combination pistol grip/lantern handle quickly converts to multiple positions. Operates 10-12 hours on 8 D-cell alkaline batteries (not included). FM, CSA, CE and USAR approved non-incendiary. Not for SCUBA applications.

Features:

- Color: Black, yellow, orange and blue
- Length: 9³/₈"



M13 LaserPro™ Rechargeable System with trickle charger

Tested Lumen Value: 150.8, Watts: 9.36, Peak Beam Candlepower: 80,000

Watertight at 500 feet. Multi-use spotlight. Dual filament (60 hours total). Adjustable fold-a-way stand. Supplied with lanyard and equipment clip ring. The Rechargeable LaserPro™ comes with battery pack pre-installed ready for charging. Burn time per charge is approximately 2 hours 15 minutes.

System Includes:

- Rechargeable LaserPro™
- Handy desk/wall mount base
- 110V transformer and hi-capacity rechargeable battery pack and #6054 Xenon hi-performance lamp
- Colors available: black or yellow
- Length: 8³/₈"



Part #	Description
PEL22700	VersaBrite®II
PEL2400C	Stealthlite®
PEL8040B	M10 BLACK KNIGHT® Alkaline 4C
PEL4000MS	King Pelican Lite™ Pro 4000 Series
PEL6050AC110	M13 LaserPro™ Rechargeable

Big Ed™ Alkaline 4C Super Bright Xenon Technology

Water resistant. Tested Lumen Value 100.5, Watts 5.8 Peak Beam Candlepower 55,000.

Heavy-duty flashlight designed for the firefighter.

Features:

- Pushbutton quick change battery replacement
- Uses 4 "C" cell batteries
- Momentary and constant ON/OFF switch
- Body made of chemical resistant unbreakable Xenoy®
- Water resistant
- 50 hour lamp life
- Comes with emergency spare lamp
- Can be carried comfortably in the hand, worn on a shoulder strap or clipped to a belt or pocket with its heavy duty clip
- Includes stainless steel ring clip
- Optional personalized identification nameplate and spare battery pack available
- Dimensions: 7" x 3.1" x 2.8"
- Weight: 19.9 oz
- Color: Yellow



Big Ed™ Rechargeable Super Bright Xenon Technology

Water resistant. Tested Lumen Value 163, Watts 8.2 Peak Beam Candlepower 65,000.

Heavy-duty rechargeable flashlight designed for the firefighter.

Features:

- Body made of chemical resistant unbreakable Xenoy®
- Can be attached to belt or clothing
- Pushbutton quick change battery replacement
- LED lights indicate state of charge
- Back-up lamp included behind lens
- Momentary and constant ON/OFF switch
- Water resistant
- 150 hour lamp life
- Nicad rechargeable battery pack
- Includes heavy duty stainless steel clothing clip
- Optional personalized identification nameplate and/or spare battery pack available
- BIG ED® Rechargeable systems available with Trickle or Fast Charger (optional)
- Dimensions: 7" x 3.1" x 2.8"
- Weight: with battery 21.5 oz
- Color: Yellow



Part #	Description
Big Ed System With Fast Charger	
PEL3700	Big Ed™ Alkaline 4C Flashlight
PEL3704	Big Ed™ Xenon lamp and back-up lamp (set of 2)
PEL3750AC110F	Big Ed™ Rechargeable System w/110V
PEL3750DCF	Big Ed™ Rechargeable System w/12V
PEL3750DWF	Big Ed™ Rechargeable System with direct wire
PEL3756F	12V Adapter
PEL3757F	110 Adapter
PEL3760F	Charger Base
PEL3761F	Direct Wiring
Big Ed System With Trickle Charger	
PEL3750AC110T	Big Ed™ Rechargeable System w/110V
PEL3750DCT	Big Ed™ Rechargeable System w/12V
PEL3750DWT	Big Ed™ Rechargeable System with direct wire
PEL8056F	12V Adapter
PEL6057F	110 Adapter
PEL33760T	Charger Base
PEL6061F	Direct Wiring
Accessories	
PEL3751B	Big Ed™ Rechargeable With Nicad Batteries Only
PEL3754	Lamp with back-Up Lamp (set of 2)
PEL3759	Nicad Battery Pack with Tray (1 unit)

OmniGlow products provide safe, non-sparking and cost-effective sources on illumination when needed the most. OmniGlow chemical light products are essential safety tools when disasters strike.



6" Lightsticks



15" Lightsticks



S.E.E.® System



Lightshape® Markers



Re-usable accessories

6" and 15" Lightsticks Emit 360° Illumination

- Available in wide array of visible colors and non-visible infrared
- Visible for up to one mile
- Non-toxic, non flammable
- 100% maintenance-free
- Easy activation for instant illumination

Part #	Description	Color	Duration	Pack
OMNI9-22100	Cyalume® 6"	green	12 hour	ea
OMN9-22101	Cyalume® 6"	red	12 hour	ea
OMN9-22103	Cyalume® 6"	yellow	12 hour	ea
OMN9-27720	Cyalume® 6"	blue	8 hour	10 pk
OMN9-27048	Cyalume® 6"	orange	12 hour	10 pk
OMN9-27057	Cyalume® 6"	white	8 hour	10 pk
OMN9-27501	Cyalume® 6"	infrared	3 hour	10 pk
Case pack :100				
OMN9-27160	Cyalume® 15"	green	12 hour	20 ea
OMN9-27162	Cyalume® 15"	yellow	12 hour	20 ea
OMN9-27163	Cyalume® 15"	red	12 hour	20 ea
OMN9-27161	Cyalume® 15"	blue	8 hour	20 ea
OMN9-27166	Cyalume® 15"	ultra orange	5 minutes	20 ea
OMN9-27145	Cyalume® 15"	infrared	8 hour	20 ea

Case pack :20

S.E.E.® System Snaplight® Emergency Evacuation System

- For blackouts and power outages—designed for strategic placement inside offices & industrial facilities to enable safe evacuation
- Photoluminescent panel is easy to install, easy to locate
- High-intensity, 6" lightsticks activate when lever is pulled
- Personnel remove one lightstick; leave the other as a stationary light source

Part #	Description
OMN9-09600	S.E.E.® Starter Kit, 22 lightsticks; 10 system units; installation hardware; training instructions
OMN9-09505	S.E.E.® Refill, 10 lightsticks

Cyalume® Lightshape® Marker and Infrared Markers

- Emits 180° of illumination
- Three visible colors; non-visible infrared
- Visible up to one mile
- Versatility allows for alpha/numeric identification
- 3" Self-adhering circle marker
- Adheres to most flat surfaces
- Non-toxic, non-flammable

Part #	Description	Color	Duration	Case
OMN9-27203	Cyalume® Lightshape® Marker	green	4 hour	100 cs
OMN9-27209	Cyalume® Lightshape® Marker	yellow	4 hour	100 cs
OMN9-27207	Cyalume® Lightshape® Marker	red	4 hour	100 cs
OMN9-27201	Cyalume® Lightshape® Marker	infrared	3 hour	100 cs

Case pack :100

Cyalume® Lightstick support materials/re-usable accessories

- Cone adapter—Holds 6", 10" or 15" Cyalume® lightstick
- Magnetic base—Holds 6", 10" or 15" Cyalume® lightstick
- Directional handle—Holds 6", 10" or 15" Cyalume® lightstick

Part #	Description
OMN9-27110	Light shield
OMN9-27103	Cone adapter
OMN9-27092	Magnetic base
OMN9-27102	Directional handle

OmniGlow™

HITCC12Y 12" Cut-off Saw

HITACHI
POWER TOOLS

- Portable, AC/DC
- Auto-stop carbon brushes protect armature and extend tool life
- Cutting wheel is replaceable without removal of base
- Wide base for extra cutting stability
- Weighs only 24 lbs.
- Max depth of cut is 4"
- 1" Arbor
- Powerful 15 AMP motor for greater cutting efficiency runs at a no-load speed of 5000 RPM



HITH85, Demolition Hammer, 1 1/8" Hex, 73 lbs., Oil

- Powerful 12.2 AMP motor for heavy duty demolition
- Oil bath lubrication system extends tool life
- Automatic oiling system with unique "air-pressure oil control" enables extended use without oiling
- Auto-stop carbon brushes protect armature and extend tool life
- 950 BPM
- Impact energy of 37.6 ft./lbs.



MORSE

Metal Devil Cutting Saw Blades

When we demonstrate the Morse Metal Devil™ blade we ask viewers to touch the freshly cut metal edges. People are amazed to find the metal cool to the touch. The unique metallurgy of the carbide tips means there is minimal heat transferred to the inner plate. Most of the heat remains in the chips. Consequently Morse Metal Devil™ blades save even more time by allowing you to handle parts immediately after cutting. They also eliminate safety concerns from hot metal parts touching wood, insulation and skin.

- Cuts through 6" x 1/4 inch thick steel plate in approximately 12 seconds
- Constructed with a hardened steel inner plate
- Cuts steel, thin steel, aluminum, stainless steel and wood

Metal Devil™



MIL6521-21 ~ 11 Amp Orbital Action Super Sawzall

Orbital action has been added to the heavy duty 11 amp Super Sawzall for even more aggressive cutting applications in wood. The Orbital Action Selector allows the user to set the degree of orbital action for faster cutting in thick materials. This tool incorporates the patented gear protection system which absorbs high impact forces caused by sudden blade lock-up thereby extending the life of the tool even under the most extreme cutting conditions. The patented counter balance mechanism makes the Super Sawzall the smoothest operating, most vibration free saw in the world. Trigger Speed Control allows the operator to match the speed of the tool to the application. The new Heavy Duty Steel Quik-Lok Blade Clamp System enables the user to change blades fast and easy without the use of a Hex Wrench. Standard equipment includes a steel carrying case and two blades.

- 11 Amp Super Sawzall
- Orbital Action
- Speed Control 0-3200 SPM
- Counter Balanced/Gear Protection Systems

Milwaukee



CUT-OFF MACHINES BY **STIHL**[®] POWERFUL AND TOUGH NUMBER ONE WORLDWIDE

When you think of concrete, metal, asphalt, masonry, stone and ductile iron, you think tough. And when these are the kinds of materials you're dealing with, you'd better think about a STIHL Cutquik[®]. Rescue operations or demolition work — whenever the going gets rough — STIHL Cutquik[®] cut-off machines provide all the power and portability needed for fast, easy cutting.



TS 760AVE

STIHL products may not be available at all PowerPlus locations.

TS 400



The TS 760ave Stihl Cutquik[®] is identical to the TS 510 but with a much larger engine. Designed for cart use and heavy-duty applications which require greater engine power. STIHL EASYSTART[®] system with decompression valve and 3-stage air filter are standard. New 16" version available for deeper cuts. TS 510 features include anti-vibration and STIHL'S exclusive EASYSTART[®] System with decompression valve. Dual air filter system is top mounted. It uses a 12" or 14" cutting wheel.

The TS 400 STIHL Cutquik[®] is a revolutionary concept from the world's number one name in cut-off machines. The differences in the TS 400 are easy to see: extremely long running times, a radical reduction in service intervals plus an outstanding cutting performance. Available with either a 12" or 14" cutting wheel, the TS 400 offers many features that are exclusive to STIHL including a semi-automatic belt tensioner, ELASTOSTART[™] handle and EASYSTART[®] system.

STIHL Cutquik[®] Cut-off Machine Accessories

Part #	Description
STI4223-670-6000	Pressurized Water Tank, provides water for wet cutting attachments when pressurized water hose is not available.
STI0463-901-0671	Carrying Case, heavy duty metal, has special compartments to hold all STIHL Cutquik [®] machines except TS 760, cutting wheels and various accessories.
STI4201-710-1403	Cart, attaches to any STIHL Cutquik [®] . Particularly useful where long, straight cuts have to be made, such as cutting expansion joints in road surfaces or squaring off edges in asphalt.



44-106
Dura-Torque[®] Collar Square Point Steel Shovel

45-106
Dura-Torque[®] Collar Round Point Steel Shovel

- Better for transferring rocky & drier soils
- Steel collar for extra strength
- 48" White Ash handle for strength

Part #	Description
UFH44-106	Union Tool, square point shovel
UFH45-106	Union Tool, round point shovel

Hollow Back Shovels By **POWERPLUS** PROFESSIONAL CLEANING SOLUTIONS



Hollow back blades are stamped from a single piece of steel which creates the hollow socket and adds strength to the blade. A nylon socket support also fortifies the neck. Forward turned steps provide for secure and comfortable foot placement. Handles are attached with a nylon collar and single rivet.

Part #	Description
HISS16D	16" Sharp shooter D handle
HISS16L	16" Sharp Shooter Long handle

DS-40 Power Coring Unit from DSI Diamond Systems, Inc.

DS-40 features an efficient, powerful 2-cycle gasoline engine with compact easy-to-use support handles and throttle controls. DS-40's business end incorporates a heavy duty centrifugal clutch, gearbox drive mechanism and includes a super-duty water swivel accepting all standard 1 1/4"-7 diamond core bits. Suitable for all portable core drilling applications of up to 4" diameter in reinforced concrete and 10" diameter in masonry, asphalt, concrete pipe, and non-structural reinforced concrete.



Specifications:

- Power train: two cycle, 40cc, 2.75 HP
- Weight: 24 lbs. with water swivel
- Speed: 950 RPM (output)

Optional Equipment:

- 4 gallon water pressure can
- 1 1/4" - 7 to 5/8" - 11 spindle adapter
- Conversion kit to "Y" version

Part #	Description
DSIDS-40	Power Coring Unit

"Y" Version

Incorporates all the features found with the standard DS-40 but provides a sturdy, compact, lightweight support unit enabling the operator to have better control when core drilling either concrete pipe or flat surfaces. Support Unit can be ordered separately to convert your existing unit. (Kit includes stand and engine cradle.)

PARTNER K950 CHAIN SAW

The new Partner K950 chain saw makes 14" deep cuts, without overcutting!

The new Partner K950 Chain is a newly designed concrete chain saw with a diamond chain. The K950 chain engine is based on the popular K950 Active saw, and includes all of its technical and ergonomic advantages.



With a concrete chain saw, you get better access in tight situations. Your control is improved and you avoid the gyration of a large diamond blade. You get sharp corners, without overcutting, and can make up to 14" deep cuts from one side. This makes the concrete chain saw a perfect complementary cutter, where the first cuts are made with a conventional cutter with a blade.

Features:

- Engine: air-cooled two-stroke engine
- Displacement: 94cc
- Power: 6.2 HP
- Weight: 20.7 lbs. (without bar and chain)
- Bar length: 350 mm
- Cutting depth: 14"

Part #	Description
PSAK950	Partner K950 Chain Saw

SLEDGE HAMMERS by Cleform Tool Co.

- 6 to 20 lb. wood handles
- Forged steel with polished double face
- 36" lacquered fired hickory handle
- Replacement heads and handles available

Part #	Description
CLE803006	Wood handle sledge hammer, 6 lb. head
CLE803008	Wood handle sledge hammer, 8 lb. head
CLE803010	Wood handle sledge hammer, 10 lb. head
CLE803012	Wood handle sledge hammer, 12 lb. head
CLE803016	Wood handle sledge hammer, 16 lb. head
CLE803020	Wood handle sledge hammer, 20 lb. head





GENERATORS



YAMEF1000

The YAMEF1000 is the most popular Yamaha generator — and no wonder. It's extremely quiet and offers 120V AC and 12V DC — that's why it's a real hit with all types of outdoor adventurers. The YAMEF1000 is small, easy to carry and can run a microwave, washing machine or small refrigerator. This quiet generator can run for over six hours without refueling. It delivers 1000 watts of maximum AC output with outstanding fuel efficiency. Built-in handle makes carrying a snap. Includes 12-volt DC output with protector for charging 12-volt batteries at 10-amp charge rate (charge cables included).



YAMEF12000DE

The YAMEF12000DE is electric-starting (with automatic choke) is YAMAHA's biggest gasoline-powered 120/240-volt output generator. This generator produces over 10 hours of continuous, super-quiet operation without refueling to power up super-heavy-load equipment like air compressors, table saws and more. Non-fused thermal breaker protects AC circuit against overload. Automatic economy idle control reduces engine speed when not under load. Rugged, full-wraparound frame for protection. Automatic volt regulator. Optional remote control starter kit. Standard wheel kit.



YAMYG4000DX

You know the dilemma — you really want a dual-voltage generator, but you can't justify paying the premium price. Well, now you don't have to sacrifice the convenience of running both 120 and 240 volts — the solution is the new Yamaha YAMYG4000D generator. It delivers everything you want in a generator — high power output and quiet operation, all in a compact package. That makes the YAMYG4000D perfect to use on the job site — it can power a wide range of tools. For example, it's got plenty of power to run two worm drive saws and a three-quarter-inch drill — all at the same time. And like all Yamaha generators, the YAMYG4000D is fuel-efficient and very reliable.



YAMYG6600D

When you need more power — when running, say, a large air compressor or three worm drive saws — then the YAMYG6600D is the logical choice. This generator delivers full-time dual 120/240-volt operation with a potent 357cc OHV 4-stroke engine. It generates 6,600 watts maximum AC output and 18,000 watts of surge output. You will also like it because it delivers outstanding fuel efficiency and can supply power for 8.3 hours of continuous operation without refueling (at half rated load). It even features a dynamic crankshaft balancer to reduce vibrations and improve durability.



1000 watt Halogen Telescoping Worklight

- Telescopes from 40" to 67" with "Easy Grip" locking nuts
- Cord storage brackets on pole
- Weatherproof on/off switch
- Complete with two 500w halogen bulbs
- Limited warranty; UL & CUL Listed

Part #	Description
ELEL-14	1000 watt worklight



500 watt Halogen "Gladiator" Spring Mounted

- Professional grade construction
- Heavy duty style roll cage gives maximum protection
- Extra bulb storage tube
- Light housing supported by stainless steel springs providing protection
- Complete with two 500w halogen bulbs
- Limited warranty; UL & CUL Listed



Part #	Description
ELEL-112	500 watt Gladiator

500 watt Halogen S-Handle Power Light

- Heavy-duty construction
- Large face frame and housing for cool operation and longer bulb life
- Extra bulb storage tube
- 3/4" stand with foam handle and foam feet
- Weatherproof on/off switch
- Complete with two 500w halogen bulbs
- Limited warranty; UL & CUL Listed



500 watt Halogen Portable Worklight

- "S" stand with foam grip handle
- Complete with 500w halogen bulb
- Limited warranty; UL & CUL Listed

Part #	Description
ELEL-18	500 watt portable worklight

Part #	Description
ELEL-14	1000 watt worklight

Series 6062 Fiberglass Extension Ladder

- Type 1A, 300 lb. duty rating
- Cast aluminum rung lock: spring assisted mechanism has polycarbonate flippers for longer life and a quiet sliding action over the rungs
- Direct rung connection: serrated slip resistant rungs are hydraulically crimped directly to the side rails for a strong and rigid connection
- Full-length interlocking rails provide smooth sliding action and an extra margin of security
- Outside slide guides: two heavy duty slide guides are secured to the top of the base section with 4 rivets per guide for added strength

Part #	Description
GBL606216	Extension Ladder, 16 ft.
GBL606220	Extension Ladder, 20 ft.
GBL606224	Extension Ladder, 24 ft.
GBL606228	Extension Ladder, 28 ft.
GBL606232	Extension Ladder, 32 ft.
GBL606236*	Extension Ladder, 36 ft.
GBL606240*	Extension Ladder, 40 ft.

* Type 1, 250 lb. duty rating



Series 2022 Fiberglass Step Ladder

- Type 1A, 300 lb. duty rating
- Inside spreader braces located inside the rails for protection during transit and storage
- Reinforced back braces are stronger than standard angle stock, without adding weight
- Molded top with recessed tool tray: non-conductive material resists denting or bending; includes tool holes and a built-in paint can hook
- Double gusseted bottom step: two heavy formed steel gussets on each side provide greater strength than flat braces
- Molded wrap-around boot: structural PVC boot supports the lower leg for durability and abrasion resistance
- Heavy duty step attachment: each step is attached by 6 steel rivets



Part #	Description
GBL202204	Step Ladder, 4 ft.
GBL202205	Step Ladder, 5 ft.
GBL202206	Step Ladder, 6 ft.
GBL202208	Step Ladder, 8 ft.
GBL202210	Step Ladder, 10 ft.
GBL202212	Step Ladder, 12 ft.



Professional Quality Crow Bar

Intended for pinching and prying of large objects, such as heavy machinery parts. Sometimes referred to as "lining" bars, because of a millwright's use aligning equipment and machinery. Available with a pinch or a wedge point opposite a tapered round handle. Painted black.

Part #	Description
CLE3860	Crowbar, 1 ¹ / ₄ " x 60" Pinch Point
CLE3960	Crowbar, 1 ¹ / ₄ " x 60" Wedge Point



"HAZARDOUS AREA" MARKING PAINT

Superior upside down marking paints that are designed to clearly and effectively mark the location of underground utilities. These solvent-based paints will mark almost any surface, including wood, concrete, asphalt, brick, and gravel. The patented spray-through cap is designed to be used in the #245 Aervoe Marking Stick, or #244 Spot Marker, or applied by hand.

Part #	Description
AVO244	Spot Marker for single use hand delivery and precision
AVO245	Marking Stick for upright operator line marking
AVO200	Construction and Survey Marking Paint, Clear
AVO206	Construction and Survey Marking Paint, Black
AVO207	Construction and Survey Marking Paint, White
AVO212	Construction and Survey Marking Paint, Purple
AVO222	Fluorescent, Construction and Survey Marking Paint, Orange
AVO224	Fluorescent, Construction and Survey Marking Paint, Green
AVO226	Fluorescent, Construction and Survey Marking Paint, Yellow
AVO227	Fluorescent, Construction and Survey Marking Paint, Blue
AVO229	Fluorescent, Construction and Survey Marking Paint, Pink



No SINK? NO PROBLEM.

Waterless Hand Wipes

Kimberly-Clark® Professional Waterless Hand Wipes go where they're needed, wherever hands go to get dirty. Like a shop where the nearest cleanup facility is in the next building. Or on a job site without a cleanup facility at all. Waterless Hand wipes by Kimberly-Clark® help keep hands clean even in the sink-less, waterless environments.



Have hands clean wherever you are.

What could happen if you don't have Kimberly-Clark® Professional Waterless Hand Wipes when you need them? Time-consuming trips to a sink (if you can find one). Reduced productivity. Potential cross-contamination of the workplace with dirty, greasy hands. This is not good. There are plenty of challenges in a workday — cleaning up doesn't need to be one of them.

Features:

- Full-sized 12" x 12" wipes for full-sized cleaning.
- Dual textured—smooth for wiping on one side and tough for scrubbing on the other.
- Natural d'limonene cleaning agent.



Kimberly-Clark®
Professional

WypAll® X80 ShopPro® Shop towels

Designed to feel like cloth and work even better. Patented technology allows this thick, strong wiper to absorb oil and water faster than rags or shop towels. Retains strength through harsh use, even when used with solvents.



Part #	Description	Fragrance	Color	Sheet size	Wipes/Bucket	Bucket/Case
LAGKCC91341	Waterless Hand Wipes	Orange/Citrus	Green	12" x 12"	90	6
LAGKCC58310	Heavy Duty Hand Cleaning Wipes	Orange/Citrus	Green	12" x 12"	50	8
LAGKCC41041	WypAll® X80 ShopPro™ Shop Towels	N/A	Blue	12 ¹ / ₂ " x 16.8"	160 rags/box	-

Spill Control/Haz-Mat Response



HazMat Boxes with TRI-WALL CONTAINMENT

Excellent for use in large decontamination process. Contaminated clothing can be placed in these containers as patient moves to decon shower area. These boxes are all tri-wall in construction and contain a lid, liner and nail kit.



These containers are rated for all UN/DOT transport requirements of all hazardous solids and liquids.

Part #	Description
CEP-BOX-HSCMEGA3	Cubic Yard Box Kit, with lid, liner, & nail kit #HSCMEGA3
CEP-BOX-RSCMEGA3	Cubic Yard Box Kit, with lid, liner, & nail kit #RSCMEGA3

HazMat Containers

For hazardous waste, the bulk boxes are rated for all UN/DOT transport requirements of all hazardous solids and liquids.

1



2



3



These containers are rated for all UN/DOT transport requirements of all hazardous solids and liquids.

Part #	Description	Size
CEP-WASTECON-MAV	(1) Maverick Waste Container	1 cubic yard, 36" x 36" x 36"
CEP-WASTECON-CORRAL	(2) Corral Waste Container	1.6 cubic yard, 42" x 42" x 42"
CEP-WASTECON-Mustang	(3) Mustang Waste Container	.5 cubic yard, 20" x 20" x 20"

Containment Berms Stake Wall®

The only containment berm design that does not rely on inflation, hinged straps or cumbersome frames to keep sidewalls up. Choose from 5 standard sizes.



CEP-8309

Part #	Description	Size
CEP-8308	Stake Wall®, 179 gallons	4' x 6' x 1'
CEP-8309	Stake Wall®, 269 gallons	6' x 6' x 1'
CEP-8310	Stake Wall®, 748 gallons	10' x 10' x 1'
CEP-8337	Stake Wall®, 5610 gallons	15' x 50' x 1'
CEP-8332	Stake Wall®, 7405 gallons	15' x 66' x 1'



CEP-8310

Spill Control/Haz-Mat Response

Spill Kits



Oil & HazMat Aggressive Spill Kits

Part #	Description
Oil Only	
CEP-SK5	Spill Kit, 10-pads, 2-socks, goggles, gloves, disp. bag
CEP-SK20	Spill Kit, 50-pads, 4-socks, 2-pillows, goggles, gloves, disp. bag
CEP-SK30	Spill Kit, 50-pads, 12-socks, 4-pillows, goggles, gloves, disp. bag
CEP-SK55	Spill Kit, 100-pads, 2-booms, 5-pillows, goggles, gloves, disp. bag
CEP-SK95	Spill Kit, 100-pads, 4-booms, 10-pillows, goggles, gloves, disp. bag
Haz Mat Aggressive	
CEP-HAZSK5	Spill Kit, 10-pads, 2-socks, goggles, gloves, disp. bag
CEP-HAZSK20	Spill Kit, 50-pads, 4-socks, 2-pillows, goggles, gloves, disp. bag
CEP-HAZSK30	Spill Kit, 50-pads, 12-socks, 4-pillows, goggles, gloves, disp. bag
CEP-HAZSK55	Spill Kit, 100-pads, 2-booms, 5-pillows, goggles, gloves, disp. bag



Mercury Spill Kits

Part #	Description
CEP-MERCSK25	Mercsorb powder (250 mg.), 1 Mercury aspirator, 4 Mercury pads, 1 disposal bags

Mercury Spill Kit

This kit is designed to handle all stages of cleaning up a mercury spill. Mercury spills should be responded to by trained personnel. This kit does not contain any chemicals designed to make the mercury any less toxic or dangerous. Exercise extreme caution when handling, storing, or disposing of the used kit components. This kit is designed for a one-time use only. Instructions included. Absorbency Capacity: 25ml(0.75 lbs).



Kit contains:

- 270 grams MERCORSORB™ Powder
- 250 grams Mercury Indicator Powder
- 1-MERCORSORB™ Vapor Suppressor
- Shaker bottle
- 1- Mercury aspirator bottle
- 1- Waste Mercury Collection bottle
- 1- Mixing Tub with wooden spatula
- 1- Chemical sponge
- 1 pair Nitrile Gloves
- 1- 15" x 15" Disposal bag and twist-tie
- 1- Whisk on pan.



Part #	Description
SFY520250	Mercury Spill Kit

Spill Control/Haz-Mat Response



Secondary Containment



CEP-2005



Tanker Tourniquets®

Minimize environmental damage, protect lives and save the load.

Part #	Description	Size
CEP-2000	Tanker Tourniquets® Magnetic , 8 magnets, spark resistant assembly for use on ferrous vessels	15 ³ / ₄ " x 32 ¹ / ₄ " x 3 ¹ / ₄ "
CEP-2005	Tanker Tourniquets® Suction, 8 EPDM suction assemblies, for use on nonferrous vessels a non-textured surface (aluminum, stainless)	18 ¹ / ₂ " x 33" x 4 ¹ / ₄ "



Drum Tourniquets®

Both models have stainless steel backing plate.

Part #	Description	Size
CEP-2010	Drum Tourniquets® Magnetic, 2 magnets, spark resistant assembly, use on steel drums and other ferrous applications	22 ¹ / ₂ " x 6 ¹ / ₂ " x 2 ⁷ / ₈ "
CEP-2005	Drum Tourniquets® Universal, 2 magnets, spark resistant assembly, 10' long ratchet strap, use on steel drums, polyethylene	22 ¹ / ₂ " x 6 ¹ / ₂ " x 2 ⁷ / ₈ "



1

Drum Accessories

Grounding Wire & Cable

CEP's grounding wires and cables are ideal for creating a static resistant setting for transfer of fluids from all metal containers and tanks.



4



2

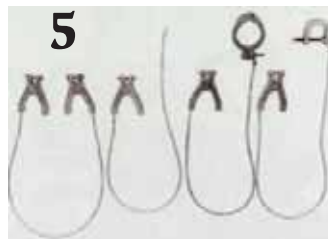
Part #	Description
CEP-RETACLMP-RAC10	(1) Retract A Clamp, 20' of cable and red clamp
CEP-PIPECLMPJR15012	(2) Pipe Clamp 1 ¹ / ₂ "
CEP-GRDGASSY-R1-10	(3) #R-1-10 Grounding assy. with 3' SS cable and 2 red clamps
CEP-RETACLMP-10	(4) #RAC10 Retract A Clamp, with 10' cable and red clamp
CEP-CABLE-RAC10	(5) #RAC102 Cable, cable only, 10' less clamp
CEP-RETACLMP-RAC20	(6) #RAC20 Retract A Clamp, 20" of cable and GAT-P clamp
CEP-GRDGCLAMP-REB	(7) #REB2960 Grounding clamp with SSTL points



6



3



5



7

Spill Control/Haz-Mat Response

Secondary Containment



Poly Overpacks®

- CEP Poly-Overpack® 95 gallon meets Group 1 packaging standards and salvage drum regulations.
- Tight, secure and leak-free container closing is simple: just place any long object, like a wooden two-by-four, in the handy lid slots and turn it to screw the lid down tightly.

CEP-1237-YE
&
CEP-1234-YE



CEP-1240-YE



Part #	Description	Size
CEP-1237-YE	Poly-Overpack®	31.75" x 26" x 41.5"
CEP-1237-YE	Salvage drum, 95 gallons	
CEP-1240-YE	Poly-Overpack® 110 110 gallons for distorted/bowed drums	31.75" x 25.75" x 45"

Poly Overpacks®

- Meets Group 1 packaging standards and salvage drum regulations.
- Nests for easy storage and has a gasket lid for secure containment.
- Light enough for one person to handle and large enough to pack sufficient absorbent for incidental spills.

Part #	Description	Size
CEP-1065YE	Poly-Overpack®, 65 gallons	28.25" x 23" x 37.37"



CEP-1065-YE

Poly Labpacks™

- Accepts bottles, cans even 5 gallon pails or can directly contain certain solids and sludges with security.
- The wide mouth, rigid walls, small footprint and integral handles make it perfect for medical and operating room waste.
- Stackable design.
- 100% polyethylene, incinerates completely.
- Sized as a spill kit container!

Part #	Description	Size
CEP-3421-BG	Poly-Labpack™, 20 gallons	22" x 22" x 18"



CEP-3421-BG

Traffic Control / Signs

Lazer Flare®

Lazer Flare® is new technology that provides a safer alternative to dangerous incendiary (fire) flares. It is a battery-operated device less than 1" high and 4" square, with two bright red or yellow directional LEDs. It runs on two replaceable AA batteries, with a battery life of around 500 hours, which is the equivalent run time of about 1,000 road flares. It weighs only 6 oz., and in the dark, the flashing LEDs can be seen for over a mile away; 5 miles from the air. The case is waterproof, and so tough you can literally run it over with a car or truck without damaging it.



- **REUSABLE** - Runs on two AA batteries that provide over 500 hours of continuous flashing light.
- **FAST AND EASY** - Takes only seconds to turn on and set out in an emergency.
- **SAFE** - No striking - No igniting, No burns, No fumes, No sparks
- **RELIABLE** - Protects user and vehicle with continuous flashing; does not burn out in 30 minutes like traditional road flares.
- **COMPACT** - Easily stored in glove compartment, trunk of vehicle, or backpack.

Part #	Description
LZFR45471	Lazer Flare® red
LZFY45471	Lazer Flare® yellow

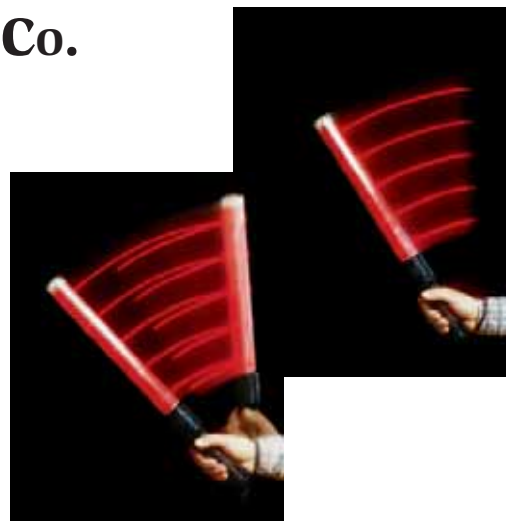


EMI EMERGENCY MEDICAL INSTRUMENT CO.

Flashback™ LED Light Baton

- **Instant** • **Intense** • **Illuminating**

The Flashback™ LED Light Baton is the most visible flashing signal light available. The 25 highly luminous LED bulbs can be seen for up to ³/₄ of a mile and flash approximately 150 times per minute. Flashback™ provides a minimum of 300 hours of continuous flashing operation. The three stage switch provides off, flashing or steady light. The weather resistant body is made of ABS high impact plastic, while the tube is PC transparent material. Flashback³ has a non-slip textured grip with a built-in belt clip and wrist strap. Ideal for all police, rescue, safety and military personnel. Weighs approximately one pound with 2-D batteries (not included). Length of flashing baton: 13¹/₂" x 1³/₄" Overall length: 21¹/₂" x 1³/₄".



Part #	Description
EMIM2000	Flashback™ LED Light Baton



Traffic Wands

Quickly and Snugly Fits on Shroud of Lights
Bright Day & Night Visibility



Part #	Description
PEL7052YW	Traffic Wand, yellow, use with M9 rechargeable
PEL7052OR	Traffic Wand, orange, use with M9 rechargeable
PEL8052YW	Traffic Wand, yellow, use with M10 and M11 rechargeable
PEL8052OR	Traffic Wand, orange, use with M10 and M11 rechargeable



Traffic Control / Signs

The VISI-Flare™ WP



Visi-Flare

- Safer and less expensive to use than standard strike flares.
- Meets MUTCD standard with a rate of 60-75 flashes per minute.
- Lens, body and control module; high impact plastic.
- High visibility.
- Comes standard with amber lenses; other lens options include blue, clear, green, red.
- Battery life: 16 hours with 2 "D" cells; 8 hours with 2 "C" cells.
- Watertight up to 330 ft. depth; perfect for divers and underwater search and rescue.
- Combination spike base and door chock specifically designed for the Visi-Flare.
- Incredibly durable design jams the heaviest doors open with ease; ideal for fire rescue.
- Leave a flashing Visi-Flare in the Spock™ base to mark an exit in poor visibility situations (such as smoke).
- Spiked base anchors the Visi-Flare securely in the earth and turf; perfect for landing zones.
- Replacement parts available.



Visi-Flare with road side base



Road side base



Spock™ combination spike base and door chock

Suction Cup Base

Part #	Description
VFL214-15003-WP	Individual Visi-Flare WP (does not include any type of base)
VFL288-15500	Road Side Base
VFL288-15502	Spock™ combination spike base and door chock
VFL288-15501	Suction Cup Base
VFL216-15600	"C" Cell Adapter

Technical Specifications:

Housing, Lens & Base	High impact plastic
Length	Approx. 9.5"
Width	Approx. 2"
Power	3 volt
Base Weight	Approx. 10 oz.
Light Source	Zenon "U" tube
"D" Cell Battery Life	Approx. 16 hours
"C" Cell Battery Life	Approx. 8 hours
Recommended Battery	Duracell Procell
Flash Rate	60-75 flashes/minute
Light Output	30 Candela
Visibility	Up to 2 miles
Waterproof Depth	330 ft.



Traffic Control / Signs

Delineator Posts Straight or T-Top



MASTERFLEX surface mount channelizer posts



Features:

- Available heights: 18", 28", 36", 39" and 42".
- Base weights available 8, 12, 15, 18 & 22 lbs.
- Designed for maximum visibility, quick set-up and low maintenance.
- All posts feature a 'flare-bottom' designed with one-inch wide right angle flare. Insures positive locking of post and base.
- Some models come standard in length, or they can be custom cut to your specifications.
- Available in: Fluorescent orange, yellow, or white.

Additional features with the T-Top Delineator Post:

- Standard with molded lower handhold grip.
- Convenient T-Carry Handle (a Bent Mfg. Co. exclusive) and molded in bolt hole for flashing light (new longer handgrip area).
- Improved recesses create a deeper area for reflective bands.
- $\frac{3}{4}$ " stronger ribs provide maximum band protection.
- Bent T-Top delineator post are manufactured using state-of-the-art technology. New precision molding machines produce consistent, high quality parts.
- * Both style delineator Posts have been tested and certified to meet the crashworthy requirements of NCHRP-350.

Type III Barricade



Features:

- Durable, hot rolled high carbon steel construction with universal mounting holes.
- Easy to assemble, bolt together, very portable.
- Unique base design allows for short term or permanent securing.
- Engineered to accommodate two flashing lights.
- Weather resistant baked enamel paint.
- Accommodates reflective sheeting on both sides.
- Design allows multiple barricades to be joined to extended length.
- Type III Barricades to be joined in series to provide perimeter protection.
- High wind stability.
- Tested and certified to meet the crashworthy requirements of NCHRP-350.

Features:

- Available heights: 18", 24", 28", 36", 39" 42" and 48".
- The new Masterflex post available in two models—a 180° two-way direction channelizer, or a 360° full-view direction channelizer. Both models incorporate the latest molding techniques and materials technology.
- High Impact Resistance—the Masterflex post is designed to withstand numerous high speed traffic impacts with minimal adverse effect.
- New Base Technology—a new concept in a one piece, hollow molded rubber base. Made from the highest elastic natural rubber available (Hy-Last®).
- The Masterflex Post is also effective in K-marker applications.
- Tested and certified to meet the crashworthy requirements of NCHRP-350.

Universal Plastic Barricade



Features:

- Latest technology in stress and impact absorption.
- Bent Mfg. exclusive waffle-board design on back.
- Recessed areas for sheeting.
- Unique recessed molded light mount brackets sized for standard bolts.
- Protective anti-skid/wear tabs on bottom of legs.
- Non-shifting tacking lugs.
- Capable of internal sand ballasting.
- Custom name molding.
- Barricade lays flat upon impact.
- Holds many sizes of signs.
- Resistance to extreme temperatures.
- Convenient molded carry handle.
- Tested and certified to meet the crashworthy requirements of NCHRP-350.

Traffic Cones

High visibility orange cones made to withstand wide temperature ranges. Various sizes available.



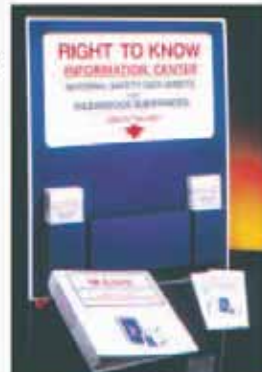
Traffic Control / Signs

Right-To-Know



Right To Know Information Center provides a central control area for keeping the OSHA required information accessible.

- 30"x24" high impact polystyrene
- 3 sturdy pockets
- Includes binder



Hazard Identification System Wall Chart

- Ready reference for OSHA and NFPA standards
- 24"x30" UV screen printed on .010 polypropylene
- Includes target organ effect information



Part #	Description
RTK	Right To Know Center
RTKBI	Right To Know Center, Spanish

Part #	Description
HMCP100	English version
HMCP200	Spanish version

Hazard Labels

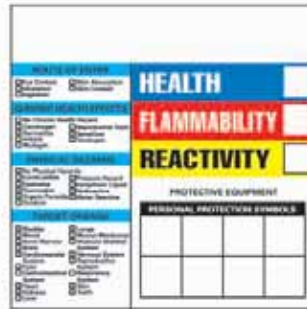
Comply with OSHA 29 CFR 1910.1200 with these hazard labels. Add the personal protection numbers and symbols for graphic communication of hazards.



Personal Protection Numbers & Symbols
P/S Vinyl 10/pack HM41



P/S Vinyl, 6x4 10/pack
HM25



P/S Vinyl, 6x6 10/pack
HM42



P/S Vinyl, 6x4 10/pack
HM36



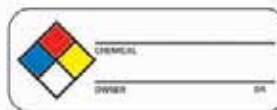
Write-On NFPA Labels
Pressure sensitive paper, 250/roll
2x2 HMS12L
4X4 HMS14L



7/8 x 7/8 750/Roll
Pressure sensitive paper
WML1



7/8 x 7/8 750/Roll
Pressure sensitive paper
WML4



7/8 x 2 7/8 500/Roll
Pressure sensitive paper
WOL3



7/8 x 2 7/8 500/Roll
Pressure sensitive paper
WOL4



Traffic Control / Signs



Utilized these easy to read fire extinguisher signs to quickly identify in case of a fire. Choose between glow in the dark or our regular signs. Glow signs illumination time is greater than 8 hours.



PSG 12X8 GL10P RP
RPG 12X8 GL10R



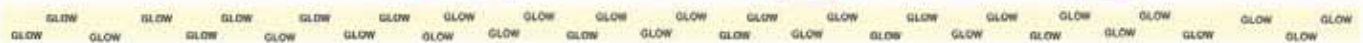
RP 18X4 M23FR
AL 18X4 M23FA
Doubled-faced flanged



PS 7X10 M23P
RP 18X4 M23R
AL 18X4 M23A



PSG 18X4 GL23P
RPG 18X4 GL23R



Glo-Brite® safety guidance system. Products are non-toxic and non-radioactive. Designed to glow in total darkness, these photoluminescent signs absorb and store energy from light sources. This energy is immediately visible in the event of a blackout or smoky environment.



PSG 8x10 GL15P
RPG 8X10 GL15R



PSG 3X12 GL19P
RPG 3X12 GL19R



Glow Foot Prints
GL52 10"pair



PSG 8x10 GL12P
RPG 8x10 GL12R



Glow Stripe Tape
GLT10 1"X30"
GLT2 2"X30"



PSG 3"dia GL20P



PSG 2"dia GL28P



Glow Tape
GLT10 1"X30"
GLT2 2"X30"

Glo-Brite® Exit Signs are listed to the UL 924 Standard (Emergency Lighting and Power Equipment) through UL® and meet all the current building codes (IBC, ICBO, BOCA, SBCCI & NFPA.)

Features

- Consumes no electricity
- Reliability, no internal parts to burnout
- Thin, low profile
- Non-toxic, non-radioactive
- Low - cost, easy installation
- Can be used for both high - level and low - level applications

Models Available:

BLACK		RED		GREEN		
7001	Single face sign (wall mount)	7011	Single face sign (wall mount)	7021	Single face sign (wall mount)	
7001-B	Single face sign with mounting bracket	7011-B	Single face sign with mounting bracket	7021-B	Single face sign with mounting bracket	
7002-B	Double face sign with mounting bracket	7012-B	Double face sign with mounting bracket	7022-B	Double face sign with mounting bracket	
			UNFRAMED MODELS		UNFRAMED MODELS	
			7210	Red letters	7220	Green letters
			7310	Red reflective letters	7320	Green reflective letters



7021



7011



7220



7210

PowerPlus Application for Credit

**FINANCING
APPLICATION**



Date: _____

1525 Endeavour Place #O Anaheim Ca.92801
Phone 714-635-9264 Fax 714-635-9442
www.PowerPlusOnline.com

Tell us about your company:

Legal Name: _____ County: _____
Bus. Mailing Address: _____ Bus. Phone # () _____
_____ Fax #: () _____
Type of Business: _____ Proprietorship _____ Partnership _____ Corporation _____ LLC Cell #: () _____
What is your Federal ID # ? _____ What is your D&B # ? _____

Tell us about the ownership of your company:

The Full Name of the Primary Owner : _____
My Title is: _____ Owner _____ Partner _____ President _____ Member I Own _____ % of this business.
Owner #1 Home Address : _____ Soc. Sec. # _____ - _____ - _____
_____ Home Phone # () _____
The Full Name of the Second Owner : _____
My Title is: _____ Owner _____ Partner _____ President _____ Member I Own _____ % of this business.
Owner #1 Home Address : _____ Soc. Sec. # _____ - _____ - _____
_____ Home Phone # () _____

Tell us about the Bank and Credit References of your company:

Our Primary Business Checking/Savings Account : (Name of Bank) _____
Account Number: _____ Bank Phone # : () _____ Officer's Name: _____
Our Best Business Credit Line is with: (Name of Company or Bank) _____
Account Number: _____ Phone Number: () _____ Contact Name: _____
Our Second Best Business Credit Line is with: (Name of Company or Bank) _____
Account Number: _____ Phone Number: () _____ Contact Name: _____

What Equipment do you want and whom do you want to get it from?

We need the following equipment: _____ At a cost of: \$ _____
We want to get this equipment from: (Name of Vendor) _____ Phone # () _____

Credit Review Authorization

By signing below, the undersigned individual(s) who is either a principal of the credit applicant or a personal guarantor of its obligations, provides written instructions to Agency Capital Corp. or its designees (and any assignee or potential signee thereof) authorizing review of his/her personal credit profile from a national credit bureau. Such authorization shall extend to obtaining a credit profile in considering this application and subsequently for the purposes of update, renewal or extension of such credit and for reviewing or collecting the resulting account. A Photostat or facsimile copy of this authorization shall be valid as the original. By signature below, I/we affirm my/our identity as the respective individual(s) identified in the above application.

Signature:	Signature:
Print Name:	Print Name:
Date:	Date:



Services Offered

- 24 Hour Emergency Service
- Product Sourcing
- Hot Shot Deliveries
- Same Day Deliveries
- Respirator Fit Testing
- Safety Training
- Sight Conservation
- Integrity
- Courteous Staff
- Knowledgeable Staff
- Proper Lifting
- Hearing Conservation
- Local Deliveries
- Extensive Inventories