



Sentinel XL[®] CBRN System

The ONLY NIOSH approved
CAP 2 PAPR



- CBRN CAP 2 System
- Converts to Decon/CBRN Configurations



Superior Protection, Comfort, Value, Performance, Simplicity, Reliability.

A single state-of-the-art blower platform adapts to multiple applications.

- Increases readiness
- More cost-effective
- Less storage area

SUPERIOR PROTECTION IN HOSTILE ENVIRONMENTS.

Our state-of-the-art, high-performance systems are designed to be the ultimate in chemical and biological protection. ILC Dover's protective equipment leverages decades of experience gained through designing and producing NASA's spacesuits and more than 2 million military masks.

HIGH-PERFORMANCE FEATURES.

- The only NIOSH-Approved Cap 2 loose-fitting CBRN PAPR
- Unique lay-flat butyl-hood design
- System converts to infectious-disease applications through change of hood/hose and filters
- Low-voltage alarm — flashing LED and continuous beep — that alerts wearer
- Rechargeable and unique alkaline battery packs available
- Field-replaceable antimicrobial head strap
- Optional NIOSH-approved backpack configuration for hands-free deployment
- Rugged dual-chamber blower design for increased durability
- Latex-free

SENTINEL BACKPACK

Optional NIOSH-approved backpack configuration allows for hands-free deployment.



QUICK-LOC™ WAIST BELT



Quick-Loc attachment/release is quick and simple.

- Low-friction surface simplifies belt adjustment
- Click-n-pull — no other adjustments necessary
- Accommodates up to a size 55-inch waist
- Easily wiped clean using standard disinfectants

The U.S. Army Edgewood Chemical Biological Center's mask-testing group of the Protective Equipment Team (PET) conducts system agent testing on complete mask systems utilizing the Stimulant Agent Resistant Test Manikin (SMARTMAN) head form. They test air-purifying respirators, self-contained breathing apparatuses, powered air-purifying respirators and escape hoods.

The Sentinel XL[®] CBRN was tested against HD and GB agents to the NIOSH CBRN PAPR standard.



Simulant Agent Resistant Test Manikin (SMARTMAN) head form shown with M40 mask.





CBRN PAPR Performance Data

HD SMARTMAN Testing

TN Test #	Date	Test Duration (min)	Max Peak Values (mg/m3)	Cumulative CT Values (mg-min/m3)	PASS/FAIL
HD-1	4/19/07	480.00		0.000	PASS
HD-2	4/23/07	480.00		0.000	PASS
HD-3	4/24/07	480.00		0.000	PASS

Live Agent Data in SMARTMAN Test Chamber

TN Test #	Date	Test Duration (min)	Max Peak Values (mg/m3)	Cumulative CT Values (mg min/m3)	PASS/FAIL
GB-1	4/19/07	480.00		0.000	PASS
GB-2	4/23/07	480.00		0.000	PASS
GB-3	4/24/07	480.00		0.002	PASS



The alkaline battery pack comes with five D-size Duracell® batteries and can be used with either the Sentinel CBRN or Sentinel HP systems. It's also designed to function with existing fielded units or newly purchased systems.

Sentinel XL CBRN Filter Performance

Gas or Vapor	Test Concentration	Break-through Allowable (ppm)	Pre-Conditioning	Test Flow Rate	Observed Service Life (min)	Service Life Requirement (min)	Pass/Fail
Ammonia	1250	12.5	25% RH 80% RH	57 57	47.5, 52 >45	30	PASS
Cyanogen Chloride	150	2	25% RH 80% RH	57 57	>60 >60	30	PASS
Cyclohexane	1300	10	25% RH 80% RH	57 57	>60 55, >60	30	PASS
Formaldehyde	250	1	25% RH 80% RH	57 57	>60 >60	30	PASS
Hydrogen Cyanide	470	4.7*	25% RH 80% RH	57 57	>60 >60	30	PASS
Hydrogen Sulfide	500	5	25% RH 80% RH	57 57	>60 >60	30	PASS
Nitrogen Dioxide	100	1 ppm NO ₂ or 25 ppm NO	25% RH 80% RH	57 57	>60 >60	30	PASS
Phosgene	125	1.25	25% RH 80% RH	57 57	>60 >60	30	PASS
Phosphine	150	.30	25% RH 80% RH	57 57	>60 >60	30	PASS
Sulfur Dioxide	750	5.00	25% RH 80% RH	57 57	43, 56 >45	30	PASS

*Sum of HCN and C₂N₂

Sentinel XL[®] HD (Hazardous Drugs) Conversion Kits

Turn your CBRN PAPR System into an HD system in a few easy steps. The blower stays the same, you just have to change the hood and filters.



Sentinel XL Head Cover HD Conversion Kit Part # S-3000-29

- Offers 2.5x protection over N-95s — no fit testing required
- Single size head cover eliminates need to buy and stock multiple sizes
- Compatible with stethoscopes
- Secure threaded breathing tube connection
- Comes with the S-4001 Half Hood, breathing tube and 3ea. OV/AG cartridge filters.



Sentinel XL BioShield HD Conversion Kit Part # S-3000-31

- Offers 100x protection over N-95's — no fit testing required
- Taped seam construction
- Internal and external skirt interfaces with most protective suits
- Excellent hood stability supports a range of operations
- Comes with the S-2028 Full Hood, breathing tube and 3ea. OV/AG cartridge filters.



Sentinel XL Clear Hood HD Conversion Kit Part # S-3000-30

- Offers 100x protection over N-95s — no fit testing required
- Unique Sentinel XL Clear Hood provides 320 degree field of view — increased safety
- No internal hood suspension system — increased comfort
- Accommodates most head, hearing and eye protection
- Comes with the S-3101 Clear Full Hood, breathing tube and 3ea. OV/AG cartridge filters.

Sentinel XL® HP Conversion Kits

Turn your CBRN PAPR System into an HP system in a few easy steps. The blower and accessories stay the same, you just have to change the hood and filters.

Sentinel XL Head Cover HP Conversion Kit Part # S-3000-05

- Offers 2.5x protection over N-95s — no fit testing required
- Single size head cover eliminates need to buy and stock multiple sizes
- Compatible with stethoscopes
- Secure threaded breathing tube connection
- Comes with the S-4001 Half Hood, breathing tube, plug and 2ea. HEPA filters.



Sentinel XL BioShield HP Conversion Kit Part # S-3000-24

- Offers 100x protection over N-95's — no fit testing required
- Specifically designed to support healthcare workers in Ebola patient suites
- Taped seam construction
- Internal and external skirt interfaces with most protective suits
- Excellent hood stability supports a range of operations
- Comes with the S-2028 Full Hood, plug, breathing tube and 2ea. HEPA filters.



Sentinel XL Clear Hood HP Conversion Kit Part # S-3000-19

- Offers 100x protection over N-95s — no fit testing required
- Unique Clear Hood provides 320 degree field of view— increased safety
- No internal hood suspension system — increased comfort
- Accommodates most head, hearing and eye protection
- Comes with the S-3101 Clear Full Hood, plug, breathing tube and 2ea. HEPA filters.





BEYOND BOUNDARIES™

Innovators at our core, we develop engineered solutions for our customers' complex problems. Recognized globally for our flexible containment solutions, ILC Dover serves customers in a diverse range of industries, including pharmaceutical and biopharmaceutical manufacturing, personal care, food and beverage, chemical, aerospace, healthcare and government agencies. At ILC Dover, quality is a culture, not a measurement. Our customers will tell you that we cater to their every need and that we're highly innovative, responsive, dedicated and competitive. We have been innovating since 1947. ILC Dover's visionary solutions improve efficiency, safeguard workers and product, and prevent disasters — proof that we are on the front line of business excellence.

Engineering evolution beyond boundaries.



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