



Sentinel XL[®] CBRN System

THE ONLY NIOSH APPROVED
CAP 2 CBRN PAPR.





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.

- 21st-century design to meet 21st-century threats
- Unique lay-flat butyl-hood design
- Cap 2 NIOSH-approved loose-fitting CBRN PAPR
- System converts to infectious-disease applications through change of hood/hose and filters
- Low-voltage alarm — flashing LED and continuous beep — that alerts wearer
- NiMH batteries eliminate “memory effect” associated with NiCd batteries
- Field-replaceable antimicrobial head strap
- Optional NIOSH-approved backpack configuration for hands-free deployment
- Rugged dual-chamber blower design for increased durability
- Manufactured in the U.S.
- Latex-free
- And more

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 Simulant 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.

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





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 PASS
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



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

Optional NIOSH-approved backpack configuration allows for hands-free deployment. Even if the hood and filters are not being used, your filtered air is always with you.





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.

THE SENTINEL CBRN SYSTEM READILY ADAPTS TO INFECTIOUS DISEASE PROTECTION APPLICATIONS.

Conversion kits for many hood/head top configurations lower the total cost of ownership.



TALK WITH OUR EXPERTS

At ILC Dover, we look forward to collaborating with you to develop systems tailored to your exact needs. To speak with one of our experts, simply call **+1.302.335.3911** or visit **www.ilcdover.com**.





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.



One Moonwalker Road
Frederica, DE 19946 USA
+1.302.335.3911
+1.800.631.9567
customer_service@ilcdover.com

www.ilcdover.com