



Sentinel XL[®]

CBRN PAPR SYSTEM



A Better Solution for Those Who Need to Be Better Prepared

UNSURPASSED PROTECTION

ILC Dover designs and manufactures the suits that protect astronauts in space, so we know how to keep workers safe in harsh environments. Emergency preparedness decon teams face similar threats every day, which is why our engineers developed the **Sentinel XL[®] CBRN system**, the only loose-fitting powered air-purifying respirator (PAPR) designed to deliver a **CAP 2 protection rating**, with ILC Dover cartridges providing two times the service life for gases/vapors as Cap 1 cartridges. That means your decon team members have superior protection against military warfare agents, biologic threats, industrial chemical threats, and nuclear particulate threats.

UNRIVALED FLEXIBILITY

The Sentinel XL CBRN PAPR system, which features an adjustable headband, is comfortable to wear and requires no fit-testing. And the “lay flat” design protects the system and allows it to stow easily in a backpack.

The flexibility of the Sentinel XL CBRN PAPR is evident in these additional features:

SINGLE SYSTEM

Unlike competitive products, the Sentinel XL blower platform can be used to support both decon and infectious disease applications, reducing costs and simplifying protection equipment inventory.

VERSATILE POWER OPTIONS

The Sentinel XL CBRN PAPR operates with non-rechargeable, rechargeable, and alkaline battery packs to increase readiness. The alkaline battery packs last for 10 hours, giving emergency workers in remote locations a reliable source of power.

IMPROVED ERGONOMICS

Our patented Quick-Loc[™] attachment system allows for quick and simple donning, while an optional backpack can double as a carrier and blower suspension system, improving ergonomics and reducing fatigue.



The Sentinel XL CBRN PAPR delivers mission-critical protection and accommodates three battery pack configurations, including alkaline batteries.



Better Protection. Better Fit. Better System.

The Sentinel XL CBRN system is the most advanced, highest-performing PAPR on the market. Emergency preparedness decon teams all over the world trust our products for mission-critical protection in the harshest environments.

TECHNICAL SPECIFICATIONS

CBRN PAPR SYSTEM	
SENTINEL BLOWER	
Material	Rugged, sealed nylon protective shell, with floating polycarbonate internal blower assembly — dual chamber provides enhanced durability
Weight	1.0 lb (without battery)
Nominal Flow Rate	195 lpm
Noise Level	<75 dB
Low Voltage Alarm	Flashing LED and buzzer
Cartridge interface	40 mm (military/NATO style) integration with integral blower gaskets

CBRN HOOD	
Configuration/design	“Lay flat” design with replaceable head strap
Material	Butyl coated fabric
Visor	Impact resistant, optical grade polycarbonate
Seams	Sewn and taped
Head Strap	Cushioned/antimicrobial with five adjustment positions — supports a wide range of wearers
Exhaust System	Single silicone valve — M40 style with plastic valve cover
Sizing	Single size — No fit testing required
Hose	Flexible, reinforced with butyl sheath — integral part of butyl hood.
Securing Feature	Adjustable draw cord

CHEMICAL CARTRIDGE	
NIOSH Protections	CBRN Cap 2
Package	Hermetically sealed, foil pouch, sealed
System Usage	3 each

RECHARGEABLE BATTERY PACK*	
Composition	Standard NiMH
Configuration	Sealed external cover with blower connector
Battery mount	Direct snap-on to blower
Weight	1.65 lbs
Nominal Life	8 hours
Charge/Discharge Cycles	500
Recharge Time	5 hours

ALKALINE BATTERY PACK*	
Configuration	Internal receptacles hold D cell batteries with external sealed cover
Battery mount	Direct snap-on to blower
Weight	1.95 lbs
Nominal Life	10 hours (per five Duracell® batteries)

CHARGER	
Type	AC/DC for sealed NiMH Battery
Current	2 amps



Thomas No.	Mfr. No.	Description
20A00M494	S-5000-01	Sentinel XL Cbrn Cap 2- Standard with Nimh Battery System In Duffle Bag
20A00M495	S-5000-02	Sentinel XL Cbrn Cap 2- Deluxe with Nimh Battery System In Backpack
20A00M496	S-5000-07	Sentinel XL Cbrn Cap 2- Standard with Alkaline Battery System In Duffle Bag
20A00M497	S-5000-08	Sentinel XL Cbrn Cap 2- Deluxe with Alkaline Battery System In Backpack
20A00M476	S-2001	Sentinel XL Bn36:Bn55- Butyl Hood Assembly
20A00M479	S-2016	Sentinel XL Cbrn Cartridges (3 Each)
20A00M481	S-2021	Sentinel XL Cbrn Duffel Bag
20A00M482	S-2023	Sentinel XL Antimicrobial Headband (Pack Of 5)
20A00L650	S-2003	Sentinel NiMH Battery Pack Assembly - Rechargeable
20A00L651	S-4013	Sentinel Alkaline Battery Pack Assembly
20A00L653	S-2009	Sentinel Smart Battery Charger - Single
20A00L708	S-2002	Sentinel Blower Assembly
20A00M477	S-2008	Sentinel XL - Cbrn Backpack
20A00M498	S-3000-05	Sentinel HP Conversion Kit
20A00M499	K-HPEZ	Sentinel XL Conversion Kit - Cbrn Cap 2 System To Ez Biohood Hepa Configuration
20A00M500	S-3000-29	Sentinel Head Cover Hd Conversion Kit (Usp 800)



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