



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 |



READY TO ORDER OR SCHEDULE A DEMO?

Call your ILC Dover representative today — and be sure to request ILC Dover’s Sentinel XL CBRN PAPR for your emergency preparedness decon needs.



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*Optional LiMnO2 Battery Pack Available