



Sentinel XL® HP

PAPR SYSTEM



A Better Solution for Those Who Need to Be Better Prepared

EXTREME PROTECTION

ILC Dover has been a trailblazer in personal protection since Apollo astronauts donned our suits to travel to and walk on the moon. Today, that legacy lives on with the Sentinel XL® HP, a high performance PAPR system (Powered Air Purifying Respirator) specifically designed to provide healthcare professionals with superior respiratory protection against a range of infectious diseases.

The Sentinel XL HP system delivers 2.5 times the protection of an N95 respirator in the head cover configuration and 100 times the protection in the full hood configuration — suitable to support healthcare workers in Ebola patient suites.

EXTREME FLEXIBILITY

We engineered the Sentinel XL HP PAPR with versatility and flexibility in mind.

MULTIPLE HEAD COVER/HOOD OPTIONS

Our head covers offer an APF of 25, provide a wide field of view and easily accommodate stethoscopes. Our BioShield™ full hood delivers an APF of 1,000.

MULTI-FUNCTION FILTERS

Easily change filters on the XL blower to support variable protection requirements. A single system accommodates HEPA and OV/AG/HE filters.

SINGLE SYSTEM

The Sentinel XL blower platform can be used to support both infectious disease and CBRN applications, reducing costs and simplifying inventory. Conversion kits are available.

VERSATILE POWER OPTIONS

The Sentinel XL HP 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. The waist belt is easily adjustable and cleanable.



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



Better Protection. Better Fit. Better System.

The Sentinel XL® HP system is the most advanced, highest-performing PAPR on the market, designed to provide healthcare professionals with superior respiratory protection against a range of infectious diseases.

TECHNICAL SPECIFICATIONS

PAPR SYSTEM, HP 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)
Flow Rate	>230 lpm for HP hood systems
Noise Level	<75 dB
Low Voltage Alarm	Flashing LED and buzzer
Cartridge interface	40 mm (military/NATO style) integration with integral blower gaskets

HEAD COVERS AND HOODS

Assigned Protection Factor	25 (head covers)
Configuration/design	Loose-fitting PAPR, requires no fit testing
Material	Coated, spun bonded polyolefin — patient-friendly colorful print patterns available
Visor	Impact resistant, optical grade polycarbonate — unique chin panel eliminates visor glare
Head Strap	Cushioned — supports a wide range of wearers
Sizing	Single size — No fit testing required
Hose	Polyurethane coating over rigid plastic helix

HOODS

Assigned Protection Factor	1,000
Configuration/design	Internal and external skirt interfaces with most protective suits
Seams	S-2028 full hood has sewn seams with taped construction — passes ASTM F 1670-14 and ASTM F 1671-13 tests (required by the CDC to protect against synthetic blood and blood-borne pathogen penetration)

FILTERS

Protections	HEPA and OV/AG/HE
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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	Approximately 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
Voltage	6 volts
Charge type	Auto-switch to trickle charge
Feedback	Red/green LED



Thomas No.	Mfr. No.	Description
20A00M490	S-3000-01	Sentinel XL HP - Standard with Nimh Battery System In Duffel
20A00M491	S-3000-01-B	Sentinel XL HP - Standard W/ Nimh Battery System In Box
20A00M492	S-3000-12	Sentinel XL HP Kit W/ Nimh Battery In Duffel (No Hood)
20A00M493	S-3000-17	Sentinel XL HP W/ Alkaline Battery Pack System In Duffel Bag
20A00M483	S-4001-25	Sentinel HP Head Cover - White (Pack of 25)
20A00M484	S-4001-3	Sentinel HP Head Cover - White (Pack of 3)
20A00L648	EZ-03	Sentinel EZ BioHood and head harness (Pack of 3)
20A00L649	EZ-25	Sentinel EZ BioHood and head harness (Pack of 25)
20A00M487	HHEZ-05	Sentinel EZ Biohood Head Harness (Pack of 5)
20A00M489	S-4012	Sentinel OV/AG/HE Cartridge (Set of 3)
20A00L658	S-4002-3	Sentinel HP-P100 Cartridges (2 x Pack of 3)
20A00L652	S-4002-25	Sentinel HP-P100 Cartridges (2 x Pack of 25)
20A00M485	S-4005-5	Sentinel XL HP Breathing Tube (Pack of 5)
20A00M486	BTEZM-05	Sentinel EZ Biohood Breathing Tube (Pack of 5)
20A00L650	S-2003	Sentinel NiMH Battery Pack Assembly - Rechargeable
20A00M477	S-2008	Sentinel XL - Cbrn Backback
20A00M478	S-2010	Sentinel Flowmeter
20A00M480	S-2020	Sentinel XL HP Duffel Bag
20A00M488	S-4011	Sentinel Quick-Loc Waist Belt
20A00M501	S-5000-05	Sentinel XL Cbrn Cap 2 Conversion Kit
20A00L651	S-4013	Sentinel Alkaline Battery Pack Assembly
20A00L653	S-2009	Sentinel Smart Battery Charger - Single
20A00L708	S-2002	Sentinel Blower Assembly

**Thomas
Scientific**

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