

Attachment 1

Salient Characteristics

Powered Air Purifying Respirator (PAPR) – Model S-5000-01/ ILC DOVERSENTINEL or equivalent

The PAPR must meet the following characteristics:

Sentinel CBRN Specifications

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. Replaceable head strap unsnaps to permit hood to lay flat preventing damage and allowing it to store easily in the backpack

Material: Butyl coated fabric

Visor: Impact resistant, optical grade polycarbonate

Seams: Sewn and Taped

Head Strap: Cushioned/anti-microbial with 5 adjustment positions to comfortably support a wide range of wearers

Exhaust System: Single Silicone valve – M40 style with plastic valve cover

Sizing: Single size

Hose: Flexible, reinforced with butyl sheath – integral part of butyl hood.

Securing Feature: Adjustable draw cord

Additional accessories necessary:

Chemical Cartridge

NIOSH Protections: CBRN Cap 2

Package: Hermetically sealed, foil pouch, sealed.

System Usage: 3 each

Suspension/Storage options

- Quick-Loc Belt
 - *Configuration:* Easily adjustable up to 55 inch waist size
 - *Material:* Smooth, deconable polymer laminate
 - *Integration with blower:* Rapid “snap-in” configuration provides tactile feedback of secure engagement
- Optional Backpack
 - *Configuration:* Designed to store entire system including blower, cartridges, hood with integral breathing tube, flow meter, and battery charger. Backpack is also part of the NIOSH approved “as worn” configuration serving to support the blower on the back.
 - *Material:* Polyester and Nylon

Alkaline Battery Pack

Configuration: Internal receptacles to support D cell batteries with external sealed cover

Battery mount: Direct snap-on to blower

Weight: 1.95 lbs

Nominal Life: 10 hours (per 5 Duracell Batteries)

Rechargeable Battery Pack (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

Re-charge time (with Smart Charging system): 5 hours

Battery Pack (Optional LiMnO₂)

Configuration: Sealed external cover with blower connector

Battery mount: Direct snap-on to blower

Weight: 1.40 lbs

Nominal Life: 10 hours

Shelf Life: Maximum 10 years from Date of Manufacture

Charger

Type: AC/DC for Sealed NiMH Battery

Current: 2A

Voltage: 6 volts

Per VAAR 811.104 and 811.105, I certify the following regarding the above information:

- The salient characteristics listed above are essential to the Government's requirements.
- To my knowledge, the restrictions listed above will not limit the acquisition to an item peculiar to one manufacture.

Name: Sean W. Wright_ Date: 6/20/2018

Title: COR Industrial Hygienist