



>>> RESPIRATORY PROTECTION

**SC420 CBRN**  
**POWERED AIR PURIFYING RESPIRATOR**

 **SPERIAN**  
Protection you can trust



# The SC420 CBRN PAPP

was built with the user in mind.

The **SC420 CBRN PAPP** is a durable, lightweight and efficient system that is easy to use in high stress environments. Batteries are “hot swappable” providing more efficient work. Canisters and power supplies are trouble-free to change out with gloved hands.

The CBRN PAPP combines an industry leading blower with the established Survivair Opti-Fit™ CBRN tight seal face piece, providing optimum air flow and reduced physical stress.

The SC420 CBRN PAPP was designed to offer flexibility and convenience:

- Three power supply options
  - D Cell Holder Pack – Holds four off-the-shelf D cell alkaline batteries. Source batteries in any situation or environment.
  - NiMH – Rechargeable battery
  - LiSO<sub>2</sub> – One time use battery
- One quantitative fit test for the Survivair Opti-Fit CBRN facepiece and the Survivair Twenty-Twenty® Plus CBRN SCBA facepiece (headgear must be the same)
- Many accessory options available
- NIOSH approved to CBRN CAP 1 standards



## SC420 CBRN PAPP

### PERFORMANCE

<i>Maximum Flow Rate</i>	115 – 140 lpm
<i>Battery Run Time</i>	D Cell: 10-12 hours LiSO <sub>2</sub> : 4 hours NiMH: 8-10 hours
<i>Ambient Temperature</i>	-32° to 49° C -26° to 120° F
<i>EMI</i>	MIL-STD-461C, Part 4, RE02
<i>Environmental</i>	Water and dust protection
<i>Decontamination</i>	Performance not affected adversely
<i>Blower Life</i>	MMTF > 1000 hrs





The SC420 CBRN PAPR system features the most advanced, rugged and reliable components.



### Survivair Opti-Fit™ CBRN Facepiece

- Optically true with greater peripheral vision and unobstructed view
- Anti-scratch, replaceable polycarbonate lens prevents abrasions
- Lens is approved for use with anti-fogging dry wipes or solution
- Chemical and nuclear resistant butyl rubber skirt
- Offered in three sizes for superior fit
- Available with or without hydration tube
- Choice of Kevlar mesh headnet or 5-point straps



### Blower Unit

- Based on the C420 blower design being used by 50,000 military personnel
- Resistant to chemical, biological, and warfare agents
- EMI shield (per military standards) will not interfere with radio communications



### Breathing Hose

- EPDM breathing hose is resistant to the harshest of chemical agents and nuclear debris
- 38" breathing hose provides added comfort for taller users
- Large turning knobs for easy mask attachment
- Low-profile 90 degree connector developed with U.S. Special Forces



### Power Supply

- Three separate power supply options, all hot-swappable
- Four D cell alkaline battery holder pack
  - Reusable, unlimited use with an undamaged pack
  - Runs off four D cell alkaline batteries easily found in retail stores (batteries not included)
  - 10-12 hour operation duration
- Rechargeable NiMH battery
  - Reusable, 500-700 times when properly charged and maintained
  - 4 hour run time
- Lithium battery
  - One time use
  - 10 year shelf life
  - 8-10 hour operation duration
- Approved environmental battery storage box keeps batteries safe against hazards while in storage



### Canisters

- Provides respiratory protection against chemical, biological and nuclear agents
- Meets and exceeds NIOSH CBRN APR/PAPR requirements
- Successfully tested against numerous CBRN agents
- Built-in P100/HE Filter
- Low profile design reduces snags once attached to the blower



### Accessories

- D-ring option for decon belt with a pull force of over 1,000 lbs. Holds tools, rope, etc.
- Black carrying case holds all components
- Spectacle kits available in two options (metal and plastic frames)
- Clear and tinted lens covers for glare reduction
- Canister shower caps for decontamination

## SC420 CBRN PAPR Configurations & List Pricing



1. Custom Configurations Pre-Packaged in Carrying Case
2. Stock Configurations Pre-Packaged in Carrying Case (order facepiece separately)
3. Build-It-Up with individual item/component numbers

\*Save time and money with Options 1 and 2: lower shipping cost and comes conveniently packaged in a carrying case.

### 1. CUSTOM CONFIGURATIONS PRE-PACKAGED IN CARRYING CASE

Easy to order using the below nomenclature: (examples below)



Systems will ship pre-packaged in black carrying case and include:

- Selected Facepiece
- Decon Belt
- 2 CBRN Canisters and Shower Caps
- Approved Environmental Battery Storage Box
- Blower Assembly and Airflow Indicator Tool
- Breathing Tube
- Black Carrying Case

Price varies depending on configuration. Order additional batteries or accessories separately. Allow up to 3 weeks for delivery.

Product Designator	Facepiece Option	Drink Tube Option	Facepiece Size	Battery Option
56	1 = Kevlar Net 5 = 5-Pt Straps	7 = with Drink Tube 0 = without Drink Tube	3 = Small 6 = Medium 9 = Large	4 = D Cell Holder 8 = NiMH 2 = LiSO <sub>2</sub>
000 = No Facepiece				

Examples:

560004 = CBRN PAPR, no facepiece, D cell battery				
56		000		4
561768 = CBRN PAPR, Kevlar headnet, drink tube, medium, NiMH battery				
56	1	7	6	8
565092 = CBRN PAPR, 5-pt. strap, without drink tube, large, LiSO <sub>2</sub> battery				
56	5	0	9	2

### 2. STOCK SC420 CBRN PAPR SYSTEM CONFIGURATIONS, PRE-PACKAGED IN A BLACK CARRYING CASE

1. Order Stock Configuration (below)
2. Order a Facepiece
3. Order Additional Batteries and/or Accessories

SC420 PAPR Stock Configurations: includes SC420 CBRN Blower, Airflow Indicator Tool, Decon Belt, Breathing Tube, Battery Option, 2 CBRN Canisters, 2 Shower Caps, Black Carrying Case, Approved Environmental Battery Storage Box

560004	D-Cell Battery Holder Pack (batteries not included)
560008	Nickel Metal Hydride Rechargeable Battery (includes charger and extended green cap)
560002	Lithium Sulfur Dioxide Battery

### 3. INDIVIDUAL ITEM #S/REPLACEMENT PARTS

#### Survivair Opti-Fit™ CBRN Facepiece

Small	Medium	Large	Description
759500	769500	779500	Survivair Opti-Fit CBRN w/Kevlar® Headnet
759520	769520	779520	Survivair Opti-Fit CBRN w/Kevlar Headnet, Drinking Tube
759000	769000	779000	Survivair Opti-Fit CBRN w/5-Pt. Strap
759020	769020	779020	Survivair Opti-Fit CBRN w/5-Pt. Strap, Drinking Tube

#### SC420 Blower

769550	SC420 Blower, Decon Belt and Airflow Indicator Tool
769519	SC420 Blower Gasket (pkg. 2)
769516	Airflow Indicator Tool

#### SC420 Breathing Hose

769515	38" Breathing Hose Assembly
769549	Breathing Hose Gasket

#### Decon Belt & D-Ring Kit

769540	Decon Belt
964869	D-Ring Kit

#### Power Supply & Power Supply Accessories

769535	D Cell Battery Holder Pack (batteries not included)
769531	Nickel Metal Hydride Rechargeable Battery
769545	Nickel Metal Hydride Charger
769533	Nickel Metal Hydride Extended Cap

769532	Lithium Sulfur Dioxide Battery
769584	Approved Environmental Battery Storage Box

#### CBRN Canister & Shower Cap

169000	CBRN Canister
769513	CBRN Canister Shower Cap

#### Accessories

969019	CBRN Kevlar Headnet Kit w/ Straps
702031	Survivair Opti-Fit Neck Strap Kit
962869	Twenty-Twenty Neck Strap Kit
962260	Rx Spectacle Kit (metal frame)
964044	NexSpex Spectacle Kit (plastic frame)
702028	Clear Lens Covers
702019	Tinted Lens Covers
951015	Anti-Fog Solution, 1 oz.
981808	Anti-Fog Wipes, Dry
769522	Black Carrying Case

**WARNING!** This document provides only an overview of the respiratory products shown. It does not provide important product warnings and instructions. Sperian Respiratory Protection recommends all users of respiratory equipment undergo thorough training and that all warnings and instructions provided with the products be thoroughly read and understood prior to use. Failure to read and follow all product warnings and instructions may result in serious personal injury, illness or death.