

# C420

## Unmatched CBRN Respirator Technology with Proven PAPR

The Avon Protection C420 PAPR (Powered Air-Purifying Respirator) System has been developed for First Responders, SWAT, Military and Special Operation users that require non-IDHL respiratory protection for an extended period of time.



National Institute for  
Occupational Safety and Health  
**NIOSH**

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**AVON**  
PROTECTION

# C420

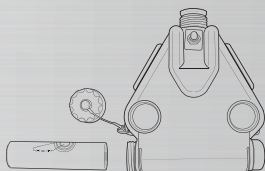
## Unmatched CBRN Respirator Technology with Proven PAPR

The industry-leading C420 PAPR is NIOSH approved for use with CBRN FM12 and CBRN C50 tight fitting respirators. It filters CBRN and other contaminants from ambient air and provides a constant, filtered airflow of between 115 and 140 lpm providing a higher safety factor due to positive pressure in the respirator. The cooling effect of constant, filtered airflow into the respirator removes any potential for fogging, increases comfort and reduces pulmonary stress and any claustrophobic feelings, while conserving the strength and mental acuity of the wearer. It helps ensure mission success by extending operational endurance of the user and facilitates heavier work performance, even in humid, heated and highly stressful environments. The PAPR blower does not interfere with radio communications, as it is EMI shielded to MIL-STD-461C.

### Benefits

- 8 hours increased protection in hazardous environments
- Choice of 2 Avon class leading respirators - CBRN FM12 and CBRN C50
- Common CBRNF12B filters for use with the respirator or PAPR system
- Ideal for prolonged respirator wear in hot climates
- Unique long life Lithium-Ion rechargeable battery providing > 8 hours run time.

### Batteries



The C420 is available with 2 battery options that can be 'hot swopped' in a warm zone environment.

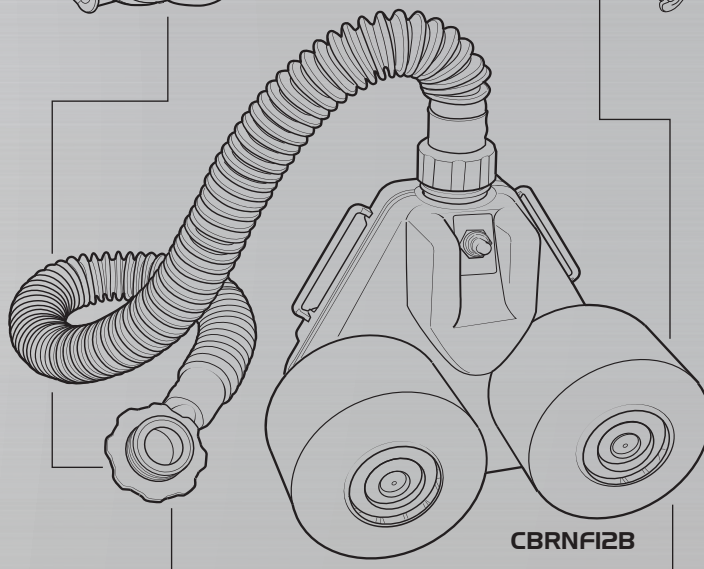
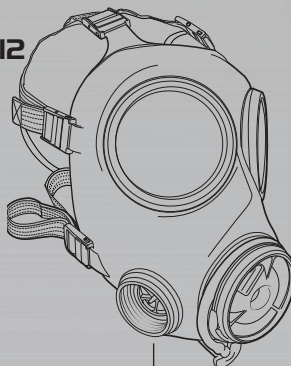
The new Lithium Ion rechargeable battery delivers over 8 hours run time, ideal for training and frequent users.

The 10 year shelf life Lithium-Sulfur Dioxide battery delivers up to 8 hours run time.

C50



FM12



CBRNF12B

### Technical Data

Maximum Flow Rate:	130-140 lpm
Power:	Battery LiSO <sub>2</sub> BA 5800/U: Run time of 8 hours Battery Li-Ion: Run time of 8 hours
Ambient Temperature:	-32 to 49 °C / -26 to 120 °F
EMI:	MIL-STD-461C, Part 4, RE02
Environmental:	Water and Dust protection – IP68 (Inlet and Outlet Ports Closed)
Decontamination:	C420 Performance not affected adversely by decontamination
Expected working life of Blower:	(MTTF) >1000 hrs
Dimensions:	8.66" x 8.88" x 3.4"
Weight:	675grams / 23.78 Ounces

The C50 and C420 fall within the definition of Significant Military Equipment in the United States Munitions List, International Traffic in Arms Regulations and may only be supplied outside of the United States of America to customers who are licensed by the US Department of State, Directorate of Defense Trade Controls.



### Industry Certified Protection Factors

NATO standard protection factors give reassurance that the mask has been rigorously tested to optimum levels.

NIOSH CBRN approved TC14G-0293, TC14G-0294  
NIOSH approved 42 CFR 84 CS/CN/P100.



### Made in the USA

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