

C420 PAPR SYSTEM

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NIOSH APPROVED:

TC-23C-2188 / TC-23C-2303

SafetyTech International, the premier manufacturer of Powered Air Purifying Respirators (PAPRs), introduces the C420 CBRN PAPR System. The C420 PAPR is the most popular first responder PAPR system in the world. SafetyTech's C420 PAPR System combines the reliability and proven performance of the C420 PAPR Blower with two highly successful MSA CBRN face masks. The system is designed to meet proposed CBRN PAPR standards.

The C420 PAPR System filters contaminants from ambient air and provides a constant, filtered airflow of more than 130 liters per minute to the user's facepiece. This provides a much higher safety factor due to positive pressure in the mask, as well as a cooling effect inside the facepiece for added comfort. It also extends operational endurance and facilitates heavier work performance, even after extended wear in humid, heated and highly stressful conditions. The airflow also prevents fogging in the facepiece and drastically reduces any feelings of claustrophobia.

APPLICATIONS:

- Industrial
- First Responder
- Tactical
- Aviation
- Rescue & Recovery
- Decontamination Teams
- Methamphetamine Lab Clean Up
- SWAT & Special Operations
- Chemical Spill Clean up

LIVE AGENT TESTED:

The proposed NIOSH CBRN PAPR standard requires the PAPR respirator to withstand live agent testing to prove resistance to chemical warfare agents. The SafetyTech International C420 CBRN PAPR system has recently passed these stringent tests at Aberdeen Proving Ground.

- 420 PAPR with CBRN Tight-Fitting Facepieces
- Over 50,000 C420s Filed with a Proven Record of Reliability
- NIOSH Approved to 42 CFR Part 84 & Tested to Proposed Standard
- Choice of SafetyTech Responder Cartridge or Multi-Gas/Particulate Cartridge for Non-CBRN use

FEATURES & BENEFITS:

- Lightweight and Comfortable
- Greatly Increased Protection Factor
- Significantly Reduces Pulmonary Stress
- Preserves Strength and Mental Acuity
- Easily Decontaminable
- Battlefield Proven Technology
- Helps Ensure Mission Success
- Live Agent Tested & NIOSH Approved
- System Choice of Millennium Mask or Ultra Elite Mask by MSA
- Economical



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C420 PAPR SYSTEM CUSTOMERS:

- U.S. Department of Justice
- U.S. Department of State
- U.S. Department of Defense
- U.S. Navy Explosive Ordnance Disposal
- U.S. Marine Corps System Command
- U.S. Army Helicopter Crew (Apache M48, M49)
- U.S. Army Explosive Ordnance Disposal
- U.S. Army Medical Material Agency
- U.S. Army Technical Escort Unit
- U.S. Army Reserve Chemical Companies
- U.S. Special Operations Command
- U.S. Joint Special Operations Command
- U.S. Defense Threat Reduction Agency
- U.S. National Guard CST & CERFP Teams (Decon)
- U.K. Ministry of Defence
- Australian Ministry of Defence
- Federal, State & Local Police SWAT
- U.S. Treasury Department
- Federal Bureau of Investigation
- Homeland Defense CBRN
- Homeland Defense WMD
- WMD Responder & Emergency Medical Care Kits
- CBRN Search & Casualty Rescue Teams
- CBRN Decon Teams
- CBRN First Responder
- NBC Search & Casualty Rescue Kits
- Clandestine Drug Lab entry teams
- Private labeled models



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TECHNICAL SPECIFICATIONS - PAPR BLOWER UNIT:

Maximum Flow Rate:	>120 lpm (High Setting) – Exceeds NIOSH minimum requirements.
Power:	
C420 Battery, LiSO2 BA 5800/U	Operates 7+ hours
C420 Battery, NiMh Rechargeable	Operates 4 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 & outlet ports closed)
Decontamination:	PAPR Blower is Decontaminable with Supplied Plugs
Expected Working Life of Blower:	(MTTF) >1,000 hrs (per EA-DTL-1827)
Overall Dimensions:	
Width	220mm / 7.87" (without filters)
Height	226mm / 8.9"
Thickness	86mm / 3.39"
Weight	675 g / 1.5 lbs (w/out cartridges & battery) 1590 g / 3.5 lbs (w/ 2 cartridges & battery)

ORDERING INFORMATION - BASIC C420 PAPR NIOSH APPROVED SYSTEM:

Part Number	Description
M-60031-001	C420 Blower, Single-Speed Toggle
S-30013-001	C420 Breathing Tube Assy. w/90° Swivel
S-30021-001	C420 Decon Belt Assy.
S-30020-001	C420 Airflow Indicator (AFI)
M-20020-001	Battery - LiSO2 (Ba5800/U)
10072237	SafetyTech GME Multi-Gas Cartridge (2) required per system to meet requirements of NIOSH 42CFR Part 84.
M-40023-001	Promask 2000 Full Facepiece / Other Masks Approved- Contact Factory
M-20036-001	C420 Battery, Rechargeable
S-20040-001	C420 1-Position Rapid Battery Charger w/(2) Batteries, Rechargeable w/(1) Cap. Other Power Options Available

Note: C420 live agent permeation testing of SafetyTech International C420 models, conducted at Aberdeen Proving Grounds, by the U.S. Army, featuring live agent concentration levels grossly in excess of PAPR IDLH levels still resulted in non-detect readings for agent permeation of the C420 blower.