

C420 PAPR

POWERED AIR-PURIFYING PROTECTION FOR FIRST RESPONDERS



tyco / Scott
Technologies, Inc.

SCOTT[®]
HEALTH & SAFETY



C420 PAPR FROM SCOTT

THE PERFECT SOLUTION FOR DOMESTIC PREPAREDNESS OPERATIONS

The First Choice for First Responders

When powered air-purifying respirators make sense for domestic preparedness operations, the Scott C420 is the first choice for first responders. The C420 PAPR is a powered air-purifying respirator that uses a blower to force ambient atmosphere through air-purifying canisters to the user's facepiece. In hostile or extended wear situations, the C420's fanning effect helps keep the facepiece from fogging, while eliminating the additional pulmonary stress associated with a non-powered respirator. The C420 PAPR provides a cooling/fanning effect and lightweight design which extends user wear times in humid or hot environments. The blower unit provides air flow rates that meet Mil-Spec and NIOSH requirements. Airflow is kept constant over the entire usage period.

Rugged and Reliable

Scott's C420 PAPR is designed for use in domestic preparedness environments that require a dependable, powered air-purifying respirator. It is NIOSH approved and meets stringent airflow and Mil-Spec vacuum test requirements. The C420 PAPR's sleek, low profile will not hinder entries and exits when dealing with harmful environments. The C420 PAPR is also lightweight and comfortable.

The C420 PAPR is ready to go when you are with a standard lithium-sulfur dioxide battery pack that has a 10-year shelf life in the original packaging. This onboard battery provides up to 10 hours of performance, over a full shift of duty.

User-friendly and Complete

The C420 PAPR is belt mounted and designed to ride in the small of the wearer's back for the ultimate in comfort and support. The motor of the C420 PAPR is shielded to MIL STD 461C so it will not interfere with radio communications. The C420 PAPR comes complete with blower unit assembly, breathing tube assembly and air flow indicator. Power to the unit is controlled by a single recessed on/off toggle switch. The flexible breathing tube, made of EPDM corrugated rubber, does not restrict head movement. Thorough decontamination against NBC agents and other industrial chemicals is made easy with detachable parts that can be cleaned according to the situation encountered.

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PREPAREDNESS SITUATIONS



C420 PAPR shown with AV/NBC Shroud™

AV-2000® Respirator Solution

A critical component of the C420 PAPR is the tight-fitting facepiece. The AV-2000 not only provides a secure fit, but offers users the Scott advantage – Top-Down Convertibility™. The AV-2000 facepiece is a central component on all of Scott’s respiratory products. So, fit testing with the AV-2000 for use on the C420 PAPR means no additional fit testing when using the same model of AV-2000 on other Scott respiratory devices such as the Ska-Pak® Plus supplied air respirator or the Scott family of SCBA’s. The same fit test will also apply when using the AV-2000 and appropriate cartridges for air-purifying protection. A full line of communication equipment is available for use on the AV-2000, from voice amplification to radio interface.

The AV-2000 features a hardcoated polycarbonate lens that provides a wide field of vision and is offered with a choice of headstraps: an easy donning mesh style Kevlar® harness or the 4 point rubber harness for quick cleaning and easy decontamination.

Specifications and Technical Data

C420 PAPR Specifications	
Weight	4.24 lbs (1.9 kg), 5.25 lbs (2.4 kg) with AV-2000 Facepiece
Air Flow	4 CFM
Blower Life	3000 hours
Av-2000 Material	EPDM
AV-2000 Lens Material	Polycarbonate
Belt	Polyurethane Coated Nylon Webbing
Hose	EPDM Corrugated
Battery Life	Up to 10 hours
Battery Shelf Life	10 years

Ordering Information

C420 PAPR Assembly and Accessories	
Part Number	Description
805371-01	C420 PAPR Unit*
805633-01	C420 PAPR Unit* with Lithium Sulfur Dioxide Battery and AV-2000 Facepiece with Kevlar Headnet (Comfort Seal™)
805636-01	C420 PAPR Unit* with Lithium Sulfur Dioxide Battery and AV-2000 Facepiece with Kevlar Headnet (Comfort Seal) and AV/NBC Shroud
805358-01	Spare Lithium Sulfur Dioxide Battery Pack
805665-01	40mm Mask Adapter
804191-08	AV-2000 with Kevlar Headnet (Comfort Seal)
805257-08	AV-2000 with 4 Point Rubber Harness (Comfort Seal)
805289-04	AV/NBC Shroud with Installation Kit

*C420 Unit consists of Blower Unit, 37" Breathing Tube, 40mm Mask Adapter, Easy Decontamination Belt and Airflow Indicator

ENGINEERED TO MEET STRICT MILITARY STANDARDS

Scott’s C420 is a Mil-Spec unit with NIOSH approval, currently in use by the US Special Operations Aviation, FBI HRT, US Navy EOD, select tactical police and fire departments for protection during NBC related incidents. Unlike traditional industrial PAPR’s, the C420 is designed for use in extreme environments and meets rigid Mil-Spec requirements insuring that it will not interfere with necessary communication systems.

Selected by US Army Blackhawk helicopter pilots for use in chemical and biological warfare, the C420 is designed for use with Scott’s AV-2000 facepiece – making it a perfect solution for first responders and domestic preparedness programs.

A Choice of Cartridges or Canisters

The C420 PAPR requires only 2 filters that fit tight and secure with 40mm threaded ends. Scott offers a selection of products for use with the C420 PAPR:



MPC Plus Cartridge

MPC Plus Cartridge

When used on the C420 PAPR, the system is NIOSH approved against a range of industrial chemicals and particulates. NIOSH approval includes: ammonia, methylamine, chlorine, chlorine dioxide, hydrogen chloride, organic vapors, sulfur dioxide, formaldehyde, hydrogen fluoride and HEPA type protection. The NIOSH approval number is TC-23C-2093.

Part Number	Description
805557-01	MPC Plus Cartridge



NTC-1 Canister

NBC Protection

For domestic preparedness and counter terrorist situations, Scott offers the NTC-1 Mil-Spec canister appropriate for (but not NIOSH approved against) chemwarfare gases and tear gas. The NTC-1 meets C2A1 performance specifications and is shipped in a sealed foil bag to ensure a 10-year shelf life. Third party test results are available upon request.

Part Number	Description
045122	NTC-1 Canister, Nylon, Black



NBC Safety

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