

# PC50™

THE NEW GENERATION  
OF PROTECTIVE MASK



Air Purifying Respirator

**AVON**  
PROTECTION

# PC50™

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OF PROTECTIVE MASK



The PC50 is based on the widely deployed C50™ and is designed and approved for use as a Non-CBRN respiratory device, providing protection in dangerous and contaminated environments, against certain solid and liquid respirable particles, gases, vapors and splashed of liquid chemicals.

The PC50 was specifically developed for the targeted user groups that demand a robust, field proven, competitively priced military pedigree product that meets their operational needs.

## IDEAL FOR:

- Corrections Officers
- Riot Control
- Border Patrol
- Plant Security
- Non-CBRN requirements



TC-14G-0316  
TC-84A-9233

The PC50 is approved for use with the CTCF50 Canister providing protection against CS/CN agents in both vapor and aerosol form and particulate matter. The PC50 is also approved for use with the CFP100 Canister providing protection against particulates only.

**CE** Type-examination approval:  
PPE Regulation 2016/425/EU -  
Module B: Certificate CE 684840.



## KEY FEATURES

- Downward exhalation cover that prevents exhaled moist air from fogging helmet visors.
- Six point, easy to adjust head harness that is comfortable to wearer over extended periods
- Low profile design providing excellent integration with other protective equipment
- Mask specifically designed for intended user groups
- Fewer replacement parts means lower total cost of ownership
- Multiple, unique outserts that increases ballistic protection and additional scratch resistance
- Left/right hand filter mounts provides easy configuration for left/right wearers

## UNIQUE TECHNOLOGY

- Panaoramic visor design gives excellent field of vision and wearer recognition while enhancing compatibility with weapon sights
- Low inhalation resistance
- Accepts traditional and conformal filters
- Field proven design
- Standard communication port



## THE NEW GENERATION OF PROTECTIVE MASK

The men and women who rely on our products have a proven dedication – and so does Avon Protection Systems.

For over 90 years, we have been the driving force behind the development of innovative, personal respiratory protective products and safety devices for the military, law enforcement, fire and rescue and industrial workers worldwide. Today we are widely recognized as the world leader in the design, development and manufacture of these products.

The PC50 is the next generation of protective mask. It is available in three sizes, with either left or right hand 40mm canister mounts that accept traditional or conformal filters. The standard communication port allows the ability to integrate with existing radios. The PC50 may be fitted with a vision correction system and a variety of outserts for specific operational situations. This product is designed for the lowest cost of ownership and maximum reliability.

Image shown is a PC50 with optional EZAir which is not a NIOSH approved configuration for the PC50.

**PC50™**

## PC50 Filtration

Filter	Part Number	Classification	Application
CSCF50	72601/71/4	Riot Control	All particulate hazards including dust, mist, fume, bacteria and virus, plus riot agents CS (meets 8 hour NIOSH test standards) and CN (< 1 hour NIOSH test standards).
CTCF50	72606/3	Riot Control	Removal of aerosols, particulate matter, smoke, fumes and vapors. Specifically designed for removal of tear gases including CS, CN and OC pepper spray.
CFPI00	605915-01	Particulate	All particulate hazards including dust, fume, bacteria and virus.

## PC50 Technical Data

Mask Protection Factor	2500*
Weight (excluding filter)	550 grams
<b>Inhalation Resistance without Filter</b>	
30 l/min	0.5 mbar
90 l/min	1.5 mbar
160 l/min	3.5 mbar
<b>Exhalation Resistance</b>	
85 l/min (with CTCF50 filter)	1.9 mbar
<b>Light Transmission</b>	
Luminous	>90%
<b>Field of View</b>	
Visual Field Score	>95
<b>Sizes</b>	
Accommodates 95% of female/male population	Small
	Medium
	Large
Donning Time	Within 9 seconds
Interface with PPE	Integrates with operational clothing, personal issued items and riot helmets

\*Protection Factor of 2500 measured independently by Avon Protection Systems, Inc.

## PC50 CE Mask Assembly

Description	Part Number
PC50 Facepiece Assembly, Large	70501/698/1
PC50 Facepiece Assembly, Medium	70501/698/2
PC50 Facepiece Assembly, Small	70501/698/3

## PC50 NIOSH Mask Assembly

Description	Part Number
PC50 Facepiece Assembly, Large	70501/632
PC50 Facepiece Assembly, Medium	70501/633
PC50 Facepiece Assembly, Small	70501/634



The PC50 is approved for use with the CTCF50 Canister providing protection against CS/CN agents in both vapor and aerosol form and particulate matter. The PC50 is also approved for use with the CFP100 Canister providing protection against particulates only.



Module B type-examination approval demonstrating compliance with the PPE Regulation 2016/425/EU.

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