



# ESM+ PF50

PAPR P-SERIES



Self-Contained Head Mounted Powered Air Purifying Respirator. Enhanced for Maximum Mobility and Protection in Light Duty Industries.

A self-contained head mounted powered air purifying respirator designed for light duty industries including pharmaceutical, chemical, laboratory and healthcare. The refined built-in Electronic System Management (ESM) includes an LED status indicator and audible alarm which monitors airflow to alert the wearer of low flow, low battery and need for filter change.

## KEY FEATURES

- No trailing leads, hoses or cables for maximum mobility, reliability and less maintenance.
- No belt mounted blower unit required which improves comfort and makes the PAPR ideal for use with a range of protective workwear.
- The unique air circulation system creates a smooth continuous flow of air that draws air from surrounding environment through filter located at rear of helmet.
- The advanced electronics package within the ESM+ continually monitors all functions and provides a self-diagnostic system check to ensure proper functioning.
- The improved electronics also provide an increased flow rate at 8.1 CFM/230Lpm.
- Contains a fully capsuled blower module with a single 7-way IP67\* connector between the sidebars and blower/motor unit with a standard internal on/off switch, in addition to having an external power switch option like the standard ESM.

\*IP67 = 6 – protection against dust / 7- protection against the effect of immersion between 15 cm and 1m

(Continued on back)

Approvals	PureFlo Hard Hat PF50 ESM+
System Classification	Powered Air-Purifying Respirator (PAPR)
Head Protection	N/A
Face Shield/ Eye Protection	ANSI Z87.1+
Respiratory	NIOSH 42CFR84
Filter Type	HEPA (HE) or HEPA/HF/HC *Nuisance OV
Flow Rate	8.1 CFM or 230 Liters/Min
Noise Level	Under 70dB
Weight	PF50 ESM+ without filter and batteries = 2.482 lbs. PF50 ESM+ w/ filter (no batteries) = 2.910 lbs. PF50 ESM+ complete w/ batteries and filter = 3.657 lbs.
Assigned Protection Factor (APF)	APF 1000 Neck Cape demonstrated by SWPF study/testing
FM Nonincendive US and Canada	Class I, II, III, Div 2, Groups ABCDEFG
Head Size Range	6 3/8" - 7 7/8" or 54 - 61cm
Charger Specifications	110V/240V AC/50 or 60 Hz/200 mA
Battery Type	5 Cell Nickel Metal Hydride 6v 2.2 Ah per pack
Battery Duration	Up to 7 Hours with Two Batteries
Recharge Time	2.5 Hours from Full Discharge

## Contact Us

Gentex is committed to designing innovative industrial safety solutions that protect people from immediate and long-term health and safety hazards present in their work environments, while enhancing workplace performance. Contact us today for more information on PureFlo and our full line of industrial safety solutions.

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## KEY FEATURES CONTINUED

- Choice of HEPA (HE) filter or a combination HE/HF/HC filter (Hydrogen Fluoride and Hydrogen Chloride); both remove 99.97% of liquid or solid based contaminants; effective for removal of nuisance odors from organic vapors.
- Includes corrosion resistant gold-plated battery packs and updated rustproof hardware.
- Redesigned PCB with new electronics board and an altitude sensor which adjusts automatically.
- Enhanced Blower/Motor assembly includes:
  - Integrated on/off switch with optional external on/off
  - Sealed electronics enclosure requires less maintenance and improves reliability
  - No user serviceable parts
  - Decreased fan vibration which provides a quieter experience for the wearer
  - 5 cell battery pack
  - Air duct profiled for low pressure drop, improved energy efficiency, directed into the shell comb, air will follow the inside of the shell into the breathing zone
  - Vent patch and audible warning sounder outlet

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