3M™ Powered Air Purifying Respirator (PAPR) with Light Weight Clear Visor

Part No. 890607 (8 hour battery)
Part No. 890607HD (12 hour battery)

The PAPR Visor provides a high level of respiratory protection. The adjustable flow of clean air creates a positive pressure environment within the head-top preventing the entry of respiratory contaminants.

This system offers protection from mechanically generated, thermally generated and microbiological particles, the PAPR has a required minimum protection factor of 50, and is compliant with the Australian and New Zealand Respiratory Standard (AS/NZS 1716).

Features

- Particle filter performs to PAPR-P3 level i.e. capture efficiency > 99.95%
- Required Minimum Protection Factor of 50
- Compliant with AS/NZS Respiratory Standard (AS/NZS1716)
- Large 170 × 104mm clear visor with excellent peripheral and downward vision
- Powered air respiratory system is super light with 8 or 12 hour battery
- Rapid battery charge to 80% capacity in 1 hour (approx. 5.5 hours full charge)
- Two adjustable air flow settings 170/200 litres per minute
- Airflow control within the visor and optional task light
- Multi-adjustable six-point harness maximises comfort and allows the user to set the distance and angle from their eyes to the clear visor

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Micro-Organism and Particulate Protection Information

If correctly worn and maintained this system can offer protection against airborne particulates including airborne microbiological hazards:

- In a low particulate loading or 'street-wear' application there is no specific change frequency for the filters but rather depends on the hazards associated with the active particulates captured and held on the filter[1].
- AS/NZS1716 compliant - rated for use against mechanically and thermally generated particulates and airborne microbiological hazards.
- Close consideration needs to be given to the policies and practices used for cleaning the PAPR[2].

Powered Air Purifying Respirator Vs Disposable Masks

When compared to a disposable respirator, the Powered Air Purifying Respirator Visor provides:

- Superior respiratory protection (RMPF 50 vs RMPF 10)[3]
- Does not require fit testing and protects eyes and face.
- Could be the more economical long-term option based on no significant filter loading in non-industrial applications.
- The system can be cleaned, maintained and recharged (filters should not be cleaned but replaced as necessary).

1) If the PAPR system is being used to help protect against airborne biological aerosols, the filter will not typically load from these particles to the point that they will affect the airflow for the PAPR as determined by the airflow indicator or the PAPR airflow indicator alarm. As a result, loading or clogging of PAPR filters is typically not an issue when used for biological aerosols. PAPR filter change schedules should be based on relevant organisational policy for dealing with the hazardous particulates involved and follow relevant national and state guidelines for handling and disposal. Issues to consider are the specific hazards of the substances of concern held on the filter and potential for contamination of people or surfaces during the filter change process. Do not attempt to clean the filter media inside the filter body. Dispose of the filter according to policy and all applicable requirements.

2) It is important to remember that a PAPR is used to filter out contaminants from the air, and therefore contaminants are concentrated on the filter/cartridge itself, and potentially also reside on other surfaces of the PAPR system.

3) Under the framework of AS/NZS 1716, this system delivers air to the wearer that is at least 50 times cleaner than the air in the surrounding environment (RMPF 50). To put this into perspective, disposable respirators have a RMPF of 10 if properly fitted and worn. Therefore, a powered air respirator is rated to provide 5 times the level of respiratory protection of a disposable respirator.