

Powercap® Infinity® Respirator

CEA646-000-1AN / CEA646-001-1AN



Black | CEA646-001-1AN



White | CEA646-000-1AN



DESCRIPTION

The PowerCap® Infinity® PAPR – a fully integrated P2 powered air respirator offering four of the highest levels of protection in one intuitive head-mounted unit.

Offering 4-in-1 above the neck protection, PowerCap® Infinity® is the perfect choice for many industries where dust poses a danger to health. The unit represents the very latest in Powered Air Purifying Respiratory technology, combining decades of innovation from JSP.

SAFETY STANDARDS

- AS/NZS1716
- AS/NZS1337
- AS/NZS1801

FEATURES

- The patented Twin Turbo Technology controls the airflow through the headtop to maximise user comfort and optimise energy efficiency. Real time diagnostics ensure that the twin impeller motor unit delivers the optimum level of airflow depending on the wearer's demands and regulates the intake and internal pressure delivering a minimum of 160 litres a minute of filtered clean air.
- PowerCap® Infinity® removes the need for fit testing, ensuring that a high volume of clean air is delivered to the breathing zone giving a high level of protection.
- Built around the super strong ABS shell of the EVO@5 Olympus® industrial safety helmet and fitted with the Revolution® Flex wheel ratchet harness, the helmet is designed to reduce pressure for the perfect fit and all-day comfort.
- The optical class 1 visor offers impact protection at speeds of up to 270 mph (tested using a 6mm steel ball bearing). The visor has a replaceable peel-off visor protector to prolong its life.
- Developed as a modular system, making it easy to disassemble and reassemble for ease of cleaning and maintenance. No specialist tools required. To ensure the optimal performance it is important that maintenance is carried out on a regular basis.
- Extensive user trials were conducted, putting the PowerCap® Infinity® to the test in a variety of harsh conditions.
- PowerCap® Infinity® offers respiratory protection to P2, with a Nominal Protection Factor of 500.
- Real time diagnostics monitor the system and the wearer twice per second, giving the user accurate, dynamic feedback. Periods of high respiratory demand are monitored constantly maintaining a positive pressure inside the respirator. Feedback is given on battery and filter condition via the heads up display and audible notifications.
- The high capacity HEPA filters coupled with the aerodynamically optimised pre-filter covers ensure that PowerCaap® Infinity® delivers 160 litres per minute of clean air to the user with maximum battery efficiency. Filters can be effortlessly replaced using an intuitive quick-change bayonet system.
- Developed to seamlessly integrate with the Sonis® helmet mounted ear defenders. Working with a leading UK acoustic engineering research facility, the Sonis® helmet mounted range peaks at an unbeaten Class 5. The helmet adaptor and the cushion surface area work together to provide optimum cushion pressure and comfort.

SPECIFICATIONS



Impact Resistance
50 Joules



Lateral Deformation
Yes



Maximum Temperature
+50°C



ABS Shell
Yes



Textile
Harness



Slip Ratchet
Wheel



Reflective Option
Fitted

Usage
P R SL (A Reusable Solid & Liquid Particulate Aerosol Filter)

Minimum Filtration Efficiency
99.8%

Nominal Protection Factor
500

Mask Design
A Turbo Hood Powered Air Purifying Respirator (Loose Fitting)

Latex free
Yes

Filter Shelf Life
5 Years

Battery Type
Rechargeable Lithium-ion 3.6v, 5.2Ah, 18.72Wh.
Expected Life Of 500 Cycles When Charged, Stored
and Used In Accordance With User Instructions



LIGHT TRANSMISSION BREAKDOWN Lens Shade number
1.2



Optical Class
Class 1 – High quality for regular use



Product Weight
1042g



EN 50365 ELECTRICAL INSULATION
1000V



Resistance to Molten Metals and Hot Solids Helmets (optional)
Yes - Helmet Only



Minimum Temperature
+5°C



Recyclable
Shell



JSPCheck
Yes

Classification
TH3



Exhalation Valve
Twin Exhalation Valve To Reduce CO2 Build-Up

Maximum Total Inward Leakage (TIL)
0.2% When Fitted To PowerCap® Infinity® Respirator

Face Seal Type
Hypoallergenic Material

Filter Material
Pleated Media



RADIATION PROTECTION BREAKDOWN filtering effect - Scale Number
2



Manufacturer's Trademark
JSP Dagger



Medium Energy Impact resists a 6 mm, 0.86g ball @ 120 m/s
Maximum protection for goggles.
B



Noise Level
61.1dB

APPLICATIONS

General guidance only and should not be considered a substitute for a full risk assessment

Airports

Facilities Management

Hospitals, Healthcare & Pharmaceuticals

Manufacturing

Mining, Aggregates and Quarrying

Rail and Tunnelling

Scaffolding and Roofing

Utilities Contractors

Construction and Infrastructure

Food and Drink manufacturing

Law Enforcement

Maritime

Oil, Gas and Chemical Companies

Renewable, Wind and Solar Energy

Sole Trader

Welding