

## 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 TH3 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 TH3, with a Nominal Protection Factor of 500. TH3 is the highest possible rating.
- 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 SNR 36dB. 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

Construction and Infrastructure

Facilities Management

Food and Drink manufacturing

Hospitals, Healthcare & Pharmaceuticals

Law Enforcement

Manufacturing

Maritime

Mining, Aggregates and Quarrying

Oil, Gas and Chemical Companies

Rail and Tunnelling

Renewable, Wind and Solar Energy

Scaffolding and Roofing

Sole Trader

Utilities Contractors

Welding