

TECHNICAL SPECIFICATION



Powercap® Infinity® Respirator

Black / CEA646-001-100



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 in the fields of respiratory, head, eye and face protection.

OPTIONS

Black (CEA646-001-100)

Blue (CEA646-000-500)

White (CEA646-000-100)

SAFETY STANDARDS

EN 12941 • EN 397 • EN 166 • ANSI/ISEA Z89.1 Type I



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SPECIFICATIONS

 Impact Resistance	50 Joules	 Lateral Deformation	Yes
 Resistance to Molten Metals and Hot Solids (optional)	Yes - Helmet Only	 Maximum Temperature	+50°C
 Minimum Temperature	+5°C	 ABS Shell	Yes
 Recyclable Shell		 Textile Harness	
 Depth Adjustment	3D Harness	 Slip Ratchet Wheel	
 Ventilation	No	 Reflective Option Fitted	
 JSPCheck	Yes	 Classification	TH3
Usage		 Exhalation Valve	Twin Exhalation Valve To Reduce CO2 Build-Up
P R SL (A Reusable Solid & Liquid Particulate Aerosol Filter)			
Minimum Filtration Efficiency	99.8%	Maximum Total Inward Leakage (TIL)	0.2% When Fitted To PowerCap® Infinity® Respirator
Nominal Protection Factor	500	UK Assigned Protection Factor	40
Mask Design		Face Seal Type	Hypoallergenic Material
A Turbo Hood Powered Air Purifying Respirator (Loose Fitting)		Metal Free	No
Latex free		Filter Material	Pleated Media
Yes		 RADIATION PROTECTION BREAKDOWN filtering effect	
Filter Shelf Life		Scale Number	2
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	 Manufacturer's Trademark	JSP Dagger
 Optical Class (1 – Class 1 – High quality for regular use. 2 – Class 2 – Medium quality for occasional use. 3 – Class 3 – Low quality for exceptional use)	1	 Medium Energy Impact resists a 6 mm, 0.86g ball @ 120 m/s Maximum protection for goggles.	B
 Resistance to Molten Metals and Hot Solids (optional)	9	 BSI Kitemark	Yes
 Product Weight	1042g	Noise Level	61.1dB

FEATURES



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Powerful Twin Turbo Performance

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.



Smart PPE

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 and catered for by constantly maintaining a positive pressure inside the respirator. Feedback is given on battery and filter condition via the heads up display and audible notifications.



No need to FACE FIT test

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.



Head Protection

PowerCap® Infinity® is built around the super strong ABS shell of the EVO®5 Olympus® industrial safety helmet. Fitted with the Revolution® Flex wheel ratchet harness, the helmet is designed to reduce pressure for the perfect fit and all-day comfort.



Panaromic Impact Visor

The optical class 1 visor conforms to EN166.B offering 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.



Tested to the MAX

Hundreds of hours of human treadmill tests were conducted in a purpose built salt dust challenge chamber to optimise mass, balance and sealing elements. Extensive user trials were conducted, putting the PowerCap® Infinity® to the test in a variety of harsh conditions.



Minimal Maintenance

PowerCap® Infinity® has been developed as a modular system, making it easy to disassemble and reassemble for ease of cleaning and maintenance. To ensure the optimal performance of PowerCap® Infinity® it is important that maintenance is carried out on a regular basis. No specialist tools required.



Perfect Fit to Combat Dust

Dust in the workplace is a significant issue. The latest HSE figures (2017) show that 18,000 new cases of work-related respiratory disease were diagnosed. A significant proportion of these were the result of exposure to silica. While the problem is widely acknowledged and use of respiratory equipment is high, it is often not suitable for the person or the environment it is being used in.

RANGE

VIDEOS

- ▶ youtu.be/jS1Fr-xVS1I
- ▶ youtu.be/IMJIVCKiTdo



youtu.be/u7dUKX-_vAc



DOWNLOADS

-  [Image Pack \(ZIP\)](#)
-  [doc-powercap_infinity.pdf \(PDF\)](#)

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