

Hard Hat PAPR

Powered Air Purifying Respirator

Quick Specs

Filter Type

High-Efficiency Particulate Air Filter (HEPA) protects against solid dust particles, metal fumes, and mists

- Stainless steel (hexavalent chromium), galvanized steel (zinc oxide), steel/manganese alloys, aluminum, cadmium and lead fumes

OSHA Classification

Loose-fitting powered air purifying respirator (no fit test required)

Assigned Protection Factor (APF)

25 with standard head seal
1,000 with optional heavy-duty head seal

Certifications

- NIOSH 42 CFR 84 (PAPR system)
- ANSI Z87.1 2020 (helmet)
- ANSI/ISEA Z89.1, CSA Z94.1 (hard hat)



Hard Hat PAPR includes MSA V-Gard® hard hat.



Optional heavy-duty head seal provides additional protection with an APF of 1,000.

Superior Visibility

ClearLight™ 2.0 Lens Technology provides advanced high-definition optics for the most realistic view that's clearer and brighter — before, during and after every weld.

High-Definition View (HDV) Technology provides a sharp detailed view at any angle with minimal distortion. This is found in the cover lens and the grind shield.

Half-shade lens adjustability provides fine shade adjustment for optimized comfort and vision.

Shade 5.0 side windows and oversized clear grind shield maximize downward and peripheral visibility, improving sense of surroundings.

Designed for Comfort

Well-balanced design reduces torque on neck, increasing all-day wear.



MSA Fas-Trac® III ratchet-suspension headgear provides exceptional comfort, reducing pressure points while increasing stability.

Patent-pending Dualtec™ manifold system optimizes helmet balance and sound, while **6-point air distribution system** maximizes perceived cooling through targeted air placement.

Lightweight low-profile blower assembly with integrated shoulder straps reduces lower back strain and fatigue.

Improved Productivity

Lift-to-talk head assembly improves communication, allowing operator to have access to face without removal of the head assembly.

Quick-release one-piece cover lens with HDV simplifies lens changes, reducing downtime.

Low-profile breathing-tube attachment eases on/off process while flexible tube material eliminates breathing tube snags in work cell.



Blower unit is warranted for one year, parts and labor.
Auto-darkening lens is warranted for four years.



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PAPR Gen. 2 Blower Specifications (Subject to change without notice.)

Filter	Flow Rate	Battery Life	Charging Time	Charges	Certification	Dimensions	Weight
HEPA	Low: 175+ lpm Med.: 195+ lpm High: 215 lpm	Low speed: 10 hours Med. speed: 9 hours High speed: 8 hours	3 hours	500*	NIOSH 42 CFR 84	H: 8.25 in. (210 mm) W: 7 in. (178 mm) D: 3.25 in. (83 mm)	3 lb. (1.4 kg)

*500 total charges per battery — two batteries included in each package.

PAPR Gen. 2 Blower Assembly Features



LCD display allows users to see fan speed, filter timer, battery level and current time.

Filter timer tracks how many hours of use the filter has.

Lightweight low-profile blower design (3 pounds) extends wearability without interfering with surroundings.

Integrated 3-point backpack-style shoulder straps enhance comfort, reduce fatigue over long shifts by distributing system weight to alleviate back pain.

Three air speeds allow users to customize the volume of air to maximize comfort in varied work conditions.

Audible and vibrating alarms notify users in noisy environments of low battery due to reduced airflow.

Lightweight lithium-ion battery provides long battery life (up to 10 hours) with no memory retention from frequent charging (three-hour charge cycle). Rated for 500 charges. **Two batteries are included with each system.**

Quick-release belt design allows for seamless system on/off.



Complete system includes blower assembly, HEPA filter, prefilters (6), spark guard, breathing tube, breathing tube cover, padded belt, comfortable shoulder straps, lithium-ion batteries (2), battery charger, flowmeter, tool bag and helmet assembly (T94iH-R).

T94iH-R™ Series Helmet Specifications (Subject to change without notice.)

Viewing Area	Operating Modes (Shades)	Light State	Sensors	APF	TIG Rating	Switching Speed	Certifications
9 sq. in. (58.1 sq. cm)	Weld (8–14), Cut (5–8), Grind (3), X-Mode™ (8–14)	3.0	4	25 with standard head seal	≥3 amps	1/25,000 second	ANSI Z87.1 2020 (helmet) ANSI/ISEA Z89.1 CSA Z94.1 (hard hat)

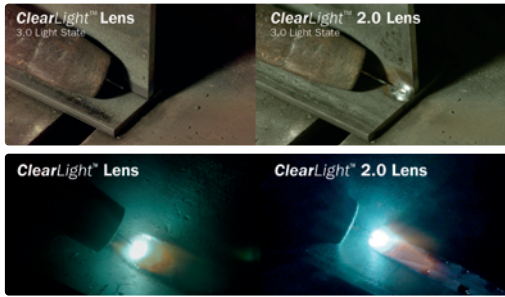


Large integrated HDV grind shield provides 44 sq. in. of clear viewing area for grinding and other tasks.

Lift-to-talk head assembly improves communication by allowing operator access to face without removal of the head assembly.

T94iH-R™ Series Helmet Features

ClearLight™ 2.0 Lens Technology provides advanced high-definition optics for the most realistic view that's clearer and brighter — before, during and after every weld.



HDV Technology provides a sharp detailed view at any angle with minimal distortion. This is found in the cover lens and the grind shield.



Quick-release one-piece cover lens simplifies lens changes, reducing downtime.

Half-shade settings for precise lens adjustment.

Shade 5.0 side windows and oversized clear HDV grind shield maximize downward and peripheral visibility, improving sense of surroundings.

Four arc sensors and four modes: weld, cut, grind and X-Mode™. X-Mode electromagnetically senses the weld to reduce sunlight interference and continuously detects the arc even if sensors are blocked.

Memory function for easy switching between two preset customized memory settings.

InfoTrack™ 2.0 tracks and displays arc time and arc count.

Digital controls easily allow welder to make precise lens adjustments to shade, delay and sensitivity.



Lightweight well-balanced design reduces neck torque, minimizing operator fatigue and strain.

Chiseled shell design provides optimal skin coverage.

Matte silver finish reflects ambient heat, reducing temperatures up to eight degrees Fahrenheit underneath the helmet.

Flame-retardant and washable standard head seal with ultra-soft outer cuff enhances wear without causing skin irritation. Unique design can provide additional protection by covering the ears, or ease communication if placed in front of the ears.

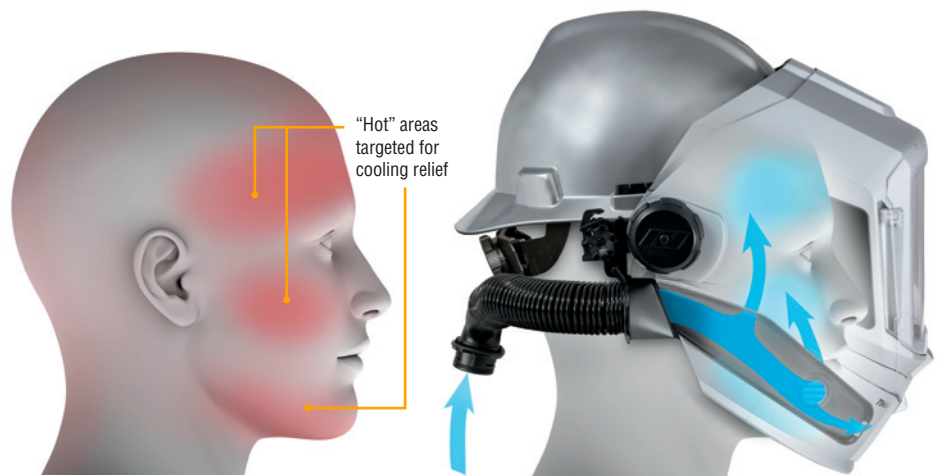
Optional heavy-duty head seal provides additional protection with an APF of 1,000.



Dualtec™ Manifold System



Patent-pending Dualtec manifold design with 6-point airflow distribution system maximizes perceived cooling through targeted air placement.



- System targets body's natural thermal regulation system to minimize operator heat stress.
- 6-point airflow distribution system targets "hot" areas within the face for immediate cooling relief, without causing eye and/or nose irritation.
- Adjustable interior vents allow for customized flow depending on user preference.

Ordering Information

Hard Hat PAPR and Options	Stock No.	Description	Qty.	Price
Hard Hat PAPR (Gen. 2) with T94iH-R™ Helmet	287510	Complete system		
Helmet Assembly/Consumables				
Head Assembly (without auto-darkening lens assembly)	287191	Helmet, headgear, standard flame-retardant head seal		
Battery, Helmet CR2450	217043			
Cover Lens Assembly HDV, Front	287016 / 287016B	5 pack or 50 pack (bulk)		
Cover Lens, Inside, Helmet	216327 / 216327B	5 pack or 50 pack (bulk)		
Grinding Shield HDV	288765	For T94iH-R helmet		
Helmet Assembly Replacement Parts/Accessories				
ClearLight™ 2.0 Auto-Darkening Lens	289874	For T94iH-R helmet		
Side Window Covers	260197			
Breathing Tube Assembly	261704	Without breathing tube cover		
Breathing Tube Cover	265312	Flame retardant		
Standard Head Seal	287187	Flame retardant, APF 25		
Heavy-Duty Head Seal	287188	Flame retardant, APF 1,000		
Blower Assembly/Consumables				
PAPR Blower Unit (Gen. 2)	287172			
Filter, Particulate (HEPA)	287170-2 287170-6 287170-36	2 pack 6 pack 36 pack		
Filter, Prefilter	235674	6 pack		
Filter, Prefilter, Nuisance OV Relief	268841	6 pack		
Filter Cover	287175			
Flowmeter	277222			
Spark Guard	235676			
Battery, PAPR Blower Unit (Gen. 2)	287178			
Blower Replacement Parts/Accessories				
Charger, PAPR Blower Unit (Gen. 2)	282077	For blower unit battery (Gen. 2)		
Belt	287176 264582	Leather		
Belt Extension	244151	Adds 18-inch length to belt assembly. For use with 287176		
Belt Pad	288941			
Shoulder Straps	287177			
Tool Bag	228028			

Date:

Total Quoted Price:

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