

PAPR II

Welding Safety
and Health



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 (face shield and T94iH-R with hard hat models only)

Certifications

- NIOSH 42 CFR 84 (PAPR system)
- ANSI Z87.1+ 2015 (face shield/helmet assemblies)
- ANSI/ISEA Z89.1, CSA Z94.1 (hard hat)

Enhanced comfort, cooling and visibility maximize all-day wearability — increasing productivity, safety and regulatory compliance.



Available with the following head assemblies



Face Shield

T94-R™

T94i-R™

T94i-R™ XL
(only available with
ClearLight™ 2.0)

T94iH-R™ with hard hat



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



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PAPR II Blower Specifications (Subject to change without notice.)

FILTER	FLOW RATE	BATTERY LIFE	CHARGING TIME	CHARGES	CERTIFICATION	DIMENSIONS	NET 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 II Blower Assembly Features



Complete system with T94-R™ helmet assembly shown.

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 (three pounds) extends wearability without interfering with surroundings.

Integrated three-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 or 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.

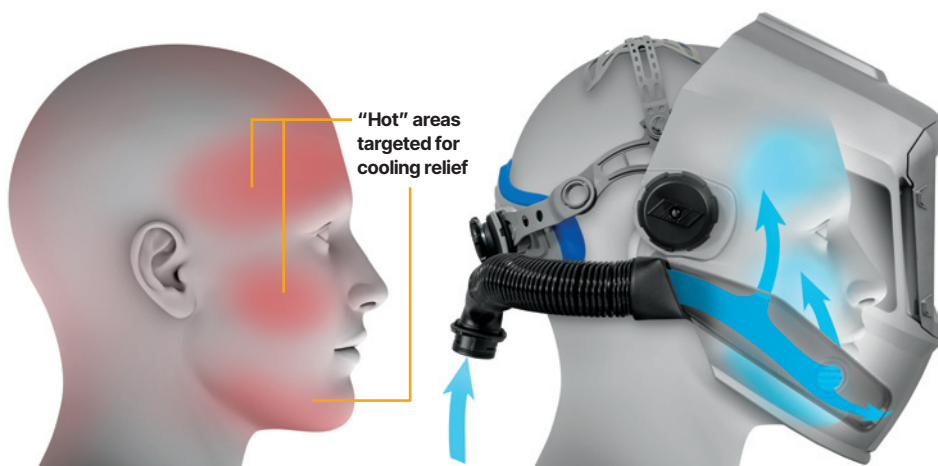
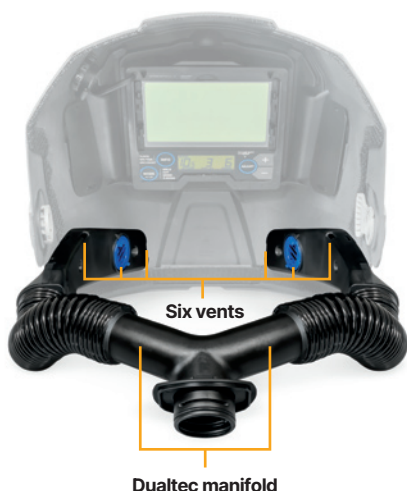
Low-profile breathing-tube attachment eases on/off process while flexible tube material eliminates breathing tube snags in work cell.

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

System comes complete with:

- 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
- Face shield head assembly with clear shield, or T94-R™, T94i-R™, T94i-R™ XL or T94iH-R™ helmet assembly

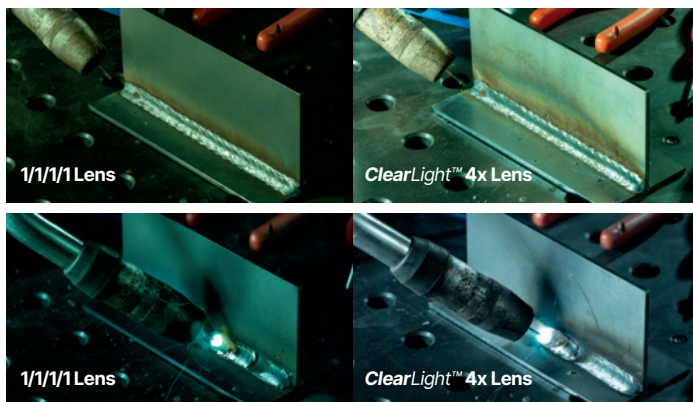
Dualtec™ Manifold System



Patented Dualtec manifold design with six-point airflow distribution system maximizes cooling through targeted air placement.

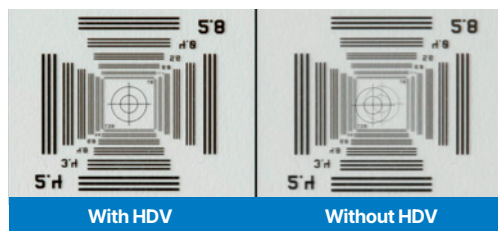
- System targets body's natural thermal regulation system to minimize operator heat stress.
- Six-point airflow distribution system targets "hot" areas within the face for immediate cooling relief, without causing eye and/or nose irritation.
- Adjustable interior vents allow for customized flow depending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

Helmet Lens Features



ClearLight™ 4x Lens Technology (ClearLight™ 2.0 Lens on T94i-R XL) offers up to four times the clarity compared to welding helmets with 1/1/1/1 as per official USA ANSI certification of lens visibility.

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.



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

Half-shade settings for precise lens adjustment for optimized comfort and vision.

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 provides ability to switch between two preset customized memory settings.

InfoTrack™ 2.0 data monitoring technology tracks arc time and arc count.

Digital controls allow for precise lens adjustments to shade, delay and sensitivity.

Rotatable lens (T94i-R™ XL only) allows operators to position for maximum field of view.



Face Shield Features



GRIND SHIELD VIEWING AREA	75 sq. in. (483.9 sq. cm)
APF	25 (standard head seal) 1,000 (optional HD head seal)
MODES (SHADES)	Grind (Clear, 3, or 5)

Lightweight well-balanced design reduces neck torque, minimizing operator fatigue and strain leading to an increase in comfort.

LIGHTWEIGHT
23.4 oz.

High-definition view (HDV) technology provides a sharp detailed view at any angle with minimal distortion.

TECHNOLOGY



Ergonomic one-touch flexible headgear design provides customizable secure fit and enhanced comfort.

Flame-retardant 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.



T94-R™ Helmet Features



WELD VIEWING AREA	9 sq. in. (58.1 sq. cm)
GRIND SHIELD VIEWING AREA	9 sq. in. (58.1 sq. cm)
APF	25
MODES (SHADES)	Weld (8–13) Cut (5–8) Grind (3) X-Mode™ (8–13)

Lightweight well-balanced design reduces neck torque, minimizing operator fatigue and strain leading to an increase in comfort.

LIGHTWEIGHT
31.4 oz.



Ergonomic four-point flexible headgear design with oversized pivoting back pad provides a secure fit, while avoiding major pressure points on the head, maximizing all-day wear. Customizable fit with seamless tilt, distance and tightness adjustments.

Shade 5.0 side windows enhance downward and peripheral vision, improving sense of surroundings.

External grind control. Allows for seamless transitions from welding to grinding.



Flame-retardant 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.



T94i-R™ Helmet Features



WELD VIEWING AREA	9 sq. in. (58.1 sq. cm)
GRIND SHIELD VIEWING AREA	44 sq. in. (283.9 sq. cm)
APF	25
MODES (SHADES)	Weld (8–13) Cut (5–8) Grind (3) X-Mode™ (8–13)

Lightweight well-balanced design reduces neck torque, minimizing operator fatigue and strain leading to an increase in comfort.



Ergonomic four-point flexible headgear design with oversized pivoting back pad provides a secure fit, while avoiding major pressure points on the head, maximizing all-day wear. Customizable fit with seamless tilt, distance and tightness adjustments.

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

Large integrated grind shield with HDV provides 44 square inches of clear viewing area for grinding and other tasks, increasing helmet-on time and decreasing the potential for eye injuries. HDV technology provides a sharp detailed view at any angle with minimal distortion.



Flame-retardant 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.

T94i-R™ XL Helmet Features



WELD VIEWING AREA	13 sq. in. (83.9 sq. cm)
GRIND SHIELD VIEWING AREA	44 sq. in. (283.9 sq. cm)
APF	25
MODES (SHADES)	Weld (8–14) Cut (5–8) Grind (3) X-Mode™ (8–14)

Lightweight well-balanced design reduces neck torque, minimizing operator fatigue and strain leading to an increase in comfort.



13-square-inch viewing area provides the largest viewing area for maximum visibility.



Rotatable lens allows operators to position for maximum field of view.



Ergonomic four-point flexible headgear design with oversized pivoting back pad provides a secure fit, while avoiding major pressure points on the head, maximizing all-day wear. Customizable fit with seamless tilt, distance and tightness adjustments.



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

Large integrated grind shield with HDV provides 44 square inches of clear viewing area for grinding and other tasks, increasing helmet-on time and decreasing the potential for eye injuries. HDV technology provides a sharp detailed view at any angle with minimal distortion.



Flame-retardant 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.

Note: T94i-R XL is only available with ClearLight™ 2.0.

T94iH-R™ Helmet Features



SAR with T94iH-R Helmet includes MSA V-Gard hard hat.

WELD VIEWING AREA	9 sq. in. (58.1 sq. cm)
GRIND SHIELD VIEWING AREA	44 sq. in. (283.9 sq. cm)
APF	25 (standard head seal) 1,000 (heavy-duty head seal)
MODES (SHADES)	Weld (8–13) Cut (5–8) Grind (3) X-Mode™ (8–13)

Lightweight well-balanced design reduces neck torque, minimizing operator fatigue and strain leading to an increase in comfort.



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



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

Large integrated grind shield with HDV provides 44 square inches of clear viewing area for grinding and other tasks, increasing helmet-on time and decreasing the potential for eye injuries. HDV technology provides a sharp detailed view at any angle with minimal distortion.



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



Lift-to-talk head assembly

Flame-retardant 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.



Standard head seal

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



Optional heavy-duty head seal

Ordering Information

SYSTEMS AND HEAD EQUIPMENT	STOCK NO.	DESCRIPTION	QTY.	PRICE
PAPR II (complete system, see page 2 for system contents)	288356 292753 292754 292755 287510	with Face Shield with T94-R™ Helmet (with external grind control) with T94i-R™ Helmet (with clear integrated grind shield) with T94i-R™ XL Helmet (with clear integrated grind shield) with Hard Hat and T94iH-R™ Helmet (with clear integrated grind shield)		
Face Shield Replacement Parts/Accessories/Consumables				
Head Assembly	288353	Head assembly with clear lens		
Lens	288348 288349 288350	Clear Shade 3 Shade 5		
Headgear (Gen. 5)	288343			
Head Seal	288344 288346	Standard. Flame retardant, APF 25 Heavy-duty. Flame retardant, APF 1,000		
Helmet Replacement Parts/Accessories/Consumables				
Battery, CR2450	217043	For T94-R, T94i-R and T94iH-R. Two required for T94i-R XL		
Cover Lens Assembly HDV, Front	287016 / 287016B	5 pack or 50 pack (bulk)		
Cover Lens, Inside	216327 / 216327B 287777 / 287777B 216327 / 216327B	For T94-R and T94i-R. 5 pack or 50 pack (bulk) For T94i-R XL. 5 pack or 50 pack (bulk) For T94iH-R. 5 pack or 50 pack (bulk)		
Grinding Shield HDV, Snap Lock	288765			
Grinding Shield Tear-Off	258853	5 pack		
Helmet Assembly (without auto-darkening lens assembly)	260821 293047 293048 287191 400320	For T94-R. Helmet, headgear, flame-retardant head seal For T94i-R. Helmet, headgear, flame-retardant head seal For T94i-R XL. Helmet, headgear, flame-retardant head seal For T94iH-R. Helmet, headgear, standard flame-retardant head seal For T94iH-R. Helmet, headgear, heavy-duty flame-retardant head seal		
ClearLight™ Auto-Darkening Lens	296787 296879 287778	For T94-R with external grind (ClearLight™ 4x) For T94i-R and T94iH-R (ClearLight™ 4x) For T94i-R XL (ClearLight™ 2.0)		
Side Window Covers	260197			
Head Seal	260926 287187 287188	For T94-R, T94i-R™ and T94i-R™ XL. Flame retardant, APF 25 Standard. For T94iH-R™. Flame retardant, APF 25 Heavy-duty. For T94iH-R™. Flame retardant, APF 1,000		
Helmet Lighting Accessory Kit	281361			
Magnifying Lens Adapter	290209	For T94i-R XL only		
Magnifying Lens	212235 212236 212237 212238 212239 212240 212241 212242	0.75 1.00 1.25 1.50 1.75 2.00 2.25 2.50		

DATE :

TOTAL QUOTED PRICE :

Ordering Information

BREATHING TUBE AND BLOWER ASSEMBLY EQUIPMENT	STOCK NO.	DESCRIPTION	QTY.	PRICE
Breathing Tube				
Breathing Tube Assembly	261704	Without breathing tube cover		
Breathing Tube Cover	265312	Flame-resistant		
Blower Assembly/Consumables				
PAPR II Blower Unit	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 II Blower Unit	287178			
Blower Replacement Parts/Accessories				
Charger, PAPR Blower Unit	282077	For PAPR II blower unit battery		
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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