

OptimAir® Mask-Mounted PAPR and OptimAir MM2K PAPR

with Type HE Optifilter® XL Cartridge



Mask-mounted powered air-purifying respirators (PAPRs) using HEPA particulate filter cartridges offer many facepiece choices. Very light and small eight-hour battery packs recharge in dual rate chargers. Well-suited for use within hazardous particulate environments including asbestos, lead abatement, nuclear, and mold remediation applications.



Features

- Lightweight, compact design for long-life, high-performance and low maintenance.
- Sealed, water-resistant battery fits inside most pockets.
- Dual-rate charger recharges fully discharged battery in less than three hours.
- Water-resistant HEPA filter for protection against particulate contaminants.
- Choice of facepiece model in several configurations.
- Facepiece, motor/blower and filter combine to produce high air flow.
- Compact, easy to maneuver, simple to decontaminate.
- Constant air flow also cools user's face.

*Because every life has a **purpose...***

Choice of Facepiece



Advantage 4100 Facepiece



Advantage® 3100 Facepiece



Ultra Elite® Facepiece



Ultravue® Facepiece

OptimAir Mask-Mounted PAPR

OptimAir Mask-Mounted PAPR Kits consist of motor/blower, NiMH battery, dual-rate charger, one Type HE OptiFilter XL Cartridge, PVC decon belt, and choice of facepiece. Housing of polycarbonate/polyester construction and stainless steel connectors result in extreme durability. NIOSH-approved as mask-mounted PAPR. **OptimAir Mask-Mounted PAPR offers a full two –year warranty.**



Motor/blower assembly

- Assembly threads onto facepiece inlet; does not impede vision or facepiece fit.
- Connects to battery pack with heavy duty lockable stainless steel power cable connector.



Compact, lightweight, NiMH battery pack

- Sealed 12.5-oz. NiMH battery pack is small enough to fit in most pockets.
- NiMH batteries do not have NiCad battery memory effect.
- Battery pack is water-resistant for easy shower decontamination.
- Operates for more than eight hours under most conditions.



Approvals and standards

OptimAir Mask-Mounted PAPR carries NIOSH approval No. TC-21C-0823. Filters must be replaced when air flow drops below 4 cfm (115 lpm).

NOTE: OptimAir Mask-Mounted PAPR is not NIOSH-approved for use with gas, chemical or combination cartridges. Use only Type HE OptiFilter XL Filter.

Specifications

Weight:

- Motor/blower with cable 7.0 oz
- Battery pack 12.5 oz
- OptiFilter Cartridge, 3.5 oz

Motor/blower: approximately 1500 hours

Battery: nickel metal hydride rechargeable battery pack provides 8 hours (one shift) of continuous use. Battery pack delivers 4.8 volts (nominal).

Battery life: up to 1,000 charge/discharge cycles

Battery charger: rated service of 100-264 volts @ 50/60 Hz

Limitations:

- OptimAir Mask-Mounted PAPR with Type HE OptiFilter XL Cartridge is approved as a high-efficiency particulate PAPR.
- OptimAir Mask-Mounted PAPR does not remove vapors or gases from air.
- No filter is designed for all concentrations of all substances.
- It is essential to determine contaminants present and to determine airborne concentrations and explosive limits before respirator selection.
- OptimAir Mask-Mounted PAPR does not supply oxygen and should not be used unless surrounding air contains minimum 19.5% oxygen.
- Respirator may be used in temperatures between 0°F and 120°F (-17°C to 49°C); however, if used in temperatures below 40°F (4.4°C), fully-charged battery may not operate for full 8 hours.
- Replaceable filter cartridge for trapping particulate contaminants is minimum 99.97% efficient against 0.3 micron DOP.



OptimAir MM2K PAPR

*OptimAir MM2K PAPR assemblies include motor/blower, NiMH battery, dual-rate battery charger, cable, one Type HE OptiFilter XL Cartridge, belt, and Advantage 3000 Facepiece. OptimAir MM2K PAPR for mold remediation/abatement, asbestos and nuclear applications offers long life, high performance and low maintenance in an economical package. NIOSH-approved as mask-mounted PAPR. **MSA OptimAir MM2K PAPR offers a full one-year warranty.***



Facepiece

Choose from Ultravue, Ultra Elite, Advantage 3100, or Advantage 4100 Facepieces. (see page 2)

Motor/blower assembly

- Low profile mask-mounted motor/blower enhances user maneuverability and simplifies decontamination.
- Type HE Optifilter® Cartridges remove particulates.
- Connects to battery pack with polycarbonate and plastic connectors.



Compact, lightweight, NiMH battery pack

- Weighing only 12.5 oz., battery pack measures only 3"x 5"x 1".
- Sealed battery pack is water-resistant for easy shower decontamination.
- Dual-rate smart charger fully powers discharged battery in less than three hours.
- NiMH battery does not have memory effect of NiCad batteries.
- Operates for more than eight hours under most conditions.



Approvals and standards

OptimAir MM2K PAPR carries NIOSH approval No. TC-21C-0823. Filters must be replaced when air flow drops below 4 cfm (115 lpm).

NOTE: OptimAir MM2K PAPR is not NIOSH-approved for use with gas, chemical or combination cartridges. Use only Type HE OptiFilter XL Filter.

Specifications

Weight:

- Motor/blower with cable 7.0 oz
- Battery pack 12.5 oz
- OptiFilter Cartridge, 3.5 oz

Motor/blower: approximately 1500 hours

Battery: nickel metal hydride rechargeable battery pack provides 8 hours (one shift) of continuous use. Battery pack delivers 4.8 volts (nominal).

Battery life: up to 1,000 charge/discharge cycles

Battery charger: rated service of 100-264 volts @ 50/60 Hz

Limitations:

- OptimAir MM2K PAPR with Type HE OptiFilter XL Cartridge is approved as a high-efficiency particulate PAPR.
- OptimAir MM2K PAPR does not remove vapors or gases from air.
- No filter is designed for all concentrations of all substances.
- It is essential to determine contaminants present and to determine airborne concentrations and explosive limits before respirator selection.
- OptimAir MM2K PAPR does not supply oxygen and should not be used unless surrounding air contains minimum 19.5% oxygen.
- Respirator may be used in temperatures between 0°F and 120°F (-17°C to 49°C); however, if used in temperatures below 40°F (4.4°C), fully-charged battery may not operate for full 8 hours.
- Replaceable filter cartridge for trapping particulate contaminants is minimum 99.97% efficient against 0.3 micron DOP.

Accessories

Dual-rate smart chargers

- Units charge fully discharged battery in less than three hours.
- Chargers switch to trickle charge to help prevent overcharging.
- Smart chargers can be connected indefinitely to battery packs without battery damage.
- Single, three-color LED indicates fast charge, full charge or battery fault conditions.



Type HE OptiFilter® Cartridges

- HE (high efficiency) OptiFilter Cartridge removes particulates while enabling constant flow of respirable air directly to facepiece.
- As facepiece air pressure is higher than outside air pressure, small face-to-facepiece seal leaks cause air to flow from facepiece inside to outside.
- Constant air flow also cools user's face.
- Lightweight filter has unrestricted air inlet opening to help prevent filter clogging.
- Optional storage plug with one-way valve for asbestos abatement use while exiting and reentering containment.
- Storage plug helps to prevent shower water from reaching filter media.



Waist belts

- PVC belt with slide-through friction buckle is comfortable and easy to decontaminate
- Standard - P/N 473902 clear polyvinylchloride (PVC) support belt
- Accommodates waist sizes of up to 48 inches
- Optional - P/N 492827 polyurethane-coated nylon belt
- No-decon applications - P/N 9961 uncoated nylon web waist belt



MSA Confidence Plus® Germicidal Cleaner

- Mix with warm water for effectiveness against many microorganisms including immunodeficiency virus Type 1 (HIV-1) (associated with AIDS)
- EPA-approved for use with safety equipment
- Sold in 32 oz. bottle



Additional accessories and options

- Flow indicator
- Spectacle kit for prescription lenses
- Lens covers
- Welder's adapter
- Carrying/storage case

NOTE: please refer to individual facepiece instructions for information about accessories including lens covers, welding adapters and RX eyeglass kits.

Ordering Information

Complete OptimAir Mask-Mounted and MM2K PAPR Assemblies (with facepiece)

All assemblies include:

- Motor/blower
- NiMH battery
- Dual-rate battery charger and cable
- One Type HE OptiFilter XL Cartridge
- Waist belt
- Choice of facepiece

OPTIMAIR MASK-MOUNTED PAPR				
	Head Harness	Small	Medium	Large
ADVANTAGE 3100 PAPR	With rubber head harness	10095181	10095182	10095183
	With Advantage Head Harness	10095184	10095185	10095186
	Material	Small	Medium	Large
ADVANTAGE 4100 PAPR	Black silicone with rubber harness	10095193	10095189	10095197
	Black Hycar™ Rubber with rubber harness	10095194	10095190	10095198
	Black silicone with net harness	10095191	10095187	10095195
	Black Hycar Rubber with net harness	10095192	10095188	10095196
OPTIMAIR MM2K PAPR				
	Head Harness	Small	Medium	Large
ADVANTAGE 3100 PAPR	With rubber head harness	10034152	10034150	10034151
	With Advantage Head Harness	10034155	10034153	10034154
	Material	Small	Medium	Large
ADVANTAGE 4100 PAPR	Black silicone with rubber harness	10084547	10084543	10084551
	Black Hycar™ Rubber with rubber harness	10084548	10084544	10084552
	Black silicone with net harness	10084545	10084541	10084549
	Black Hycar Rubber with net harness	10084546	10084542	10084550

OptimAir Mask-Mounted and MM2K PAPR Kits (less facepiece) and Replacement Facepieces

Upgrade Kit includes:

- Motor/blower
- NiMH battery, dual-rate battery charger and cable
- One Type HE OptiFilter Cartridge
- Waist belt
- Use your present facepiece or order facepiece separately from ordering chart

*Also requires RD40 Adapter P/N 10065330

	Description	P/N		
KITS	OptimAir Mask-Mounted PAPR Upgrade Kit	10095166		
	OptimAir MM2K PAPR Upgrade Kit	10025945		
	Facepiece	Small	Medium	Large
REPLACEMENT FACEPIECES ADVANTAGE 3100	Black silicone with rubber harness	10095193	10095189	10095197
	Black Hycar Rubber with rubber harness	10095194	10095190	10095198
	Material	Small	Medium	Large
REPLACEMENT FACEPIECES ADVANTAGE 4100*	Black silicone with net head harness	10083796	10083792	10083800
	Black Hycar Rubber with net head harness	10083797	10083793	10083801
	Material	Small	Medium	Large
REPLACEMENT FACEPIECES ULTRA ELITE	Silicone rubber head harness	493072	493028	493116
	Hycar Rubber head harness	493064	793020	493108

Parts and Accessories

Description	P/N
OPTIMAIR MASK-MOUNTED PAPR	
Battery pack assembly, packaged	10095162
Motor/blower assembly, w/o cable, packaged	10095163
Cable assembly, packaged	10095164
Charger, packaged	10095165
OPTIMAIR MM2K PAPR	
Cable assembly, OptimAir MM2K PAPR	10023480
Battery pack, OptimAir MM2K PAPR	10023481
Motor/blower, OptimAir MM2K PAPR, w/o cable	10023482
Charger, dual-rate, OptimAir MM2K PAPR	10023483
OTHER ACCESSORIES	
Flow check device	487995
Adapter for flow check device	491046
Replacement belt, PVC	473902
Carrying/storage case, black plastic	D2056734
MSA Confidence Plus Germicidal Cleaner, 32 oz. bottle	10009971

OptiFilter Cartridges for OptimAir Mask-Mounted and MM2K PAPR

MSA Purifying Element	Purifying Protection Code	Color Code	No. in Box	P/N
OptiFilter XL, Type HE	HE		20	10042346
OptiFilter XL, Type HE	HE		6	496081

Our Mission

MSA's mission is to see to it that men and women may work in safety and that they, their families and their communities may live in health throughout the world.

MSA: Because every life has a purpose.

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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