



# **OptimAir<sup>®</sup>MM 2K PAPR with Type HE OptiFilter<sup>®</sup> XL Cartridge**

[ With the smallest battery pack ever ]

## It's smaller, lighter, and . . . Your very best choice of PAPR

MSA's new improved version of OptimAir MM Respirator boasts the lightest, most compact battery pack design yet! Designed for easy decontamination, the OptimAir MM 2K is well suited for asbestos or lead abatement, nuclear, and other industries with hazardous particulate environments.

## The battery pack is lightweight and compact

The most notable new feature is the small, lightweight NiMH (nickel metal hydride) battery pack. Weighing only 12.5 oz., it measures only 3" x 5" x 1½". The low-profile unit fits close to the wearer's body. In fact, the battery pack is small enough to fit inside most pockets.

A fully charged battery provides eight hours of continuous use, lasting a full work shift. The sealed battery pack is water-resistant for easy shower decontamination. Another advantage:

NiMH batteries do not have the "memory effect" associated with NiCd (nickel cadmium) batteries.



*The small battery pack can fit inside most pockets.*

## The dual-rate smart charger is standard

The smart charger charges a fully discharged battery in less than three hours and then switches to a trickle-charge to prevent over-charging. It can be connected to the battery pack indefinitely without causing damage to the battery.

The smart charger's single, three-color LED indicates battery condition: fast charge, fully charged, or battery fault condition. This charger can be used worldwide (may require plug adapter). It has a rated service of 100–264 volts @ 50/60 Hz.



*The OptimAir MM 2K PAPR includes the motor/blower, NiMH battery, dual-rate charger, Type HE OptiFilter XL Cartridge, urethane coated belt, and a choice of Ultravue or Ultra Elite Facepiece.*

## Choose from 12 facepieces

You can choose from a total of 12 individual full facepieces for your OptimAir MM 2K PAPR. Choose from two models — Ultravue® or state-of-the-art Ultra Elite®; two materials — silicone or hycar rubber; and three sizes — small, standard, or large. To further enhance facepiece use, just add the optional lens cover accessories and/or the optional ESP Communication System for better voice amplification.

To reduce your inventory, fit-testing, etc., these facepieces are interchangeable and usable with other MSA respiratory protection.



*Storage Plug for OptiFilter Cartridge*



one  
and nylon web  
pieces.

## Motor/blower and cartridges resist debris & water

The compact, lightweight motor/blower assembly, which does not obstruct your vision or impair your facepiece fit, threads onto the facepiece inlet. The motor provides long life (approximately 1500 hours) and low maintenance. The motor/blower assembly is attached to the battery pack with a heavy-gauge coated power cable, which includes lockable connectors to the motor/blower and battery pack.

A single lightweight Type HE OptiFilter Cartridge, which features an unrestricted air-inlet opening to help prevent gross debris from clogging the filter, fits onto the motor/blower. This HEPA (high-efficiency particulate air) filter is water-resistant.

You can add an optional OptiFilter XL Prefilter/Cover, an economical three-piece assembly that traps particulates like gross ACM and water spray before they can reach the main cartridge filter. After it is loaded with particulates, you can discard and replace either the entire Prefilter/Cover or, for maximum savings, discard and replace only the inexpensive prefilter.

Asbestos workers may add the optional filter storage plug with a special one-way valve to help prevent gross debris from falling out of the cartridge and water damage to the filter media during exiting and reentering containment.



*The OptimAir MM 2K PAPR is ideal for workers exposed to hazardous particulates.*

Additional accessories and options include optional waist belts, E-Z Chek™ Flow Indicator, spectacle kit for prescription lenses, lens covers, welder's adapter, carrying/storage case, and MSA Confidence Plus® Germicidal Cleaner. For more details, see Data Sheet 10-04-09.

## Ordering Information

### Complete Units

Include Motor/blower, NiMH battery, dual-rate charger, one Type HE OptiFilter XL Cartridge, urethane-coated nylon web belt, and choice of Ultravue or Ultra Elite Facepiece listed below.

Size	Black Silicone Ultravue	Black Hycar Ultravue	Black Silicone Ultra Elite	Black Hycar Ultra Elite
Small	10023881	10023858	10023886	10023882
Medium	10023859	10023569	10023887	10023883
Large	10023880	10023857	10023885	10023884

### Replacement Filters for OptimAir MM 2K PAPR

Part No.	Description
496080	Type HE OptiFilter XL, box of 50
496081	Type HE OptiFilter XL, box of 6

### Replacement Facepieces

	Black Silicone Ultravue	Black Hycar Ultravue	Black Silicone Ultra Elite	Black Hycar Ultra Elite
Small	480251	471218	493072	493064
Medium	480247	457126	493028	493020
Large	480255	471230	493116	493108

### Replacement Components

Part No.	Description
10023482	Motor/Blower Assembly
10023480	Cable Assembly
10023481	Battery Pack
10023483	Dual-Rate Battery Charger
492827	Coated Nylon Waist Belt
497098	Complete Prefilter/Cover Assembly for Type HE OptiFilter XL (consists of 1 prefilter, spacer, cover and instructions)
493524	Prefilters, box of 50
495747	Storage Plug for Type HE OptiFilter XL



E-Z Chek™ Flow Indicator

## Limitations

The OptimAir MM 2K PAPR with Type HE OptiFilter XL Cartridge is approved as a high-efficiency particulate PAPR.

The OptimAir MM 2K PAPR does not remove vapors or gases from the air. No filter is designed for all concentrations of all substances. Therefore, it is essential to understand what the contaminant is and to know its concentration and explosive limit before selecting a respirator.

The OptimAir MM 2K PAPR does not supply oxygen. Therefore, it should not be used unless the surrounding air contains a minimum of 19.5% oxygen. The 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), the fully charged battery will not operate for a full eight hours.

The replaceable filter cartridge, which traps the particulate contaminant, is a minimum of 99.97% efficient against 0.3 micron DOP.

## Approvals and Standards

The OptimAir MM 2K PAPR with either the Ultravue or Ultra Elite Facepiece and OptiFilter XL Cartridge has NIOSH approval TC-21C-0758.

The filters must be replaced when air flow drops below 4 cfm (115 lpm).

**IMPORTANT: The OptimAir MM 2K PAPR is not NIOSH-approved for use with gas, chemical or combination cartridges. Use only Type HE OptiFilter XL Filter.**



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