

# OptimAir TL Powered Respirator

NIOSH-approved powered air-purifying respirator (PAPR) for loose-fitting hoods, loose-fitting respirators, and tight-fitting facepieces protects against particulates, toxic gases and vapors, or a combination. "Smart" features set flow rates automatically through built-in sensors. Unit offers audible and visual alarms for added worker safety. Audible alarms travel up the breathing tube, which aids in the user receiving the alert.

## Smart Design Features

- Crushproof breathing tube
- Automatic setting of flow rates
- Distinct Audible and Visual alarms for low flow indication and low battery voltage
- Less bulk and better weight distribution improves worker efficiency and comfort
- Sealing gaskets on each cartridge
- Smart charger

## Cartridges & Accessory Options

- Cartridge service life for OV on MSA cartridge calculator
- HE (Hi-Efficiency)
- Acid gas/organic vapor plus HE
- Acid gas/ammonia/formaldehyde plus HE
- Decon waist belt with optional buckles
- Decon cover for blower and hose

MSA's **OptimAir TL PAPR** incorporates a sleek, low-profile design for user comfort never before offered in a PAPR. All components, including the motor blower, cartridges, and battery, are packaged in a single hip-hugging housing. Improved motor blower electronics allow for optimum air flow and filter resistance, while the compact and ergonomic battery pack affords lightweight comfort and fit. Flow control sensors are activated by insertion of the cartridges and breathing hose to the blower housing. The unit automatically adjusts for altitude via an internal pressure sensor.

Applications include pharmaceutical plants, HazMat cleanup, asbestos, mold and lead paint abatement, chemical processing, and Department of Energy facilities.

Superior design features permit fast, accurate change-out of cartridges, hoods and batteries. Slim, curved PAPR housing helps to minimize fatigue and permits work in tight confined areas. Standard OptimAir TL PAPR kit includes motor blower, smart charger, standard battery, hose and decon belt.

## NIOSH-APPROVED

A variety of hood materials, styles and configurations are **all** NIOSH-approved, including DuPont Tychem SL and QC with single and double bib. A choice of hose connection is also available. Unit has an APF of 1,000 (Assigned Protection Factor) for tight-fitting facepieces and hoods.

Tight-fitting facepiece approvals include the MSA Ultra-Elite®, Advantage® 3100 and Advantage 4100.

Optivizor® (loose-fitting respirator) is also approved by NIOSH APF of 25.



Magnetized crushproof breathing tube sets proper blower air flow based on head covering used.



Tyvek® Hood



Each cartridge comes with its own sealing gasket. Black color allows for easy inspection.

# OptimAir TL Powered Respirator



- ① Audible and visible low-flow alarm.
- ② Standard battery has a minimum run time of 4-hours regardless of cartridge being used.
- ③ Push-and-hold on/off switch eliminates accidental shutdown.
- ④ Audible and visible low-battery voltage alarm.
- ⑤ Combination cartridge switch adjusts for proper air-flow requirements.
- ⑥ Blower, battery, and cartridges share common platform with no external cables required.
- ⑦ Ergonomic housing design includes contoured blower housing and top-sided, angled breathing tube entry.



Comfort Belt



Threaded hood connection



Decon Cover



OptimAir TL PAPR Kit  
(cartridges not included)



Cartridges



Battery packs

## Ordering Information

KITS	
10081114	Optimair TL Kit, for Facepieces, standard battery
10081115	Optimair TL Kit, for Facepieces, Extended-Life battery
10081116	Optimair TL Kit, for Hoods, standard battery
10081117	Optimair TL Kit, for Hoods, Extended-Life battery

FACEPIECES AND ACCESSORIES	
10028999	Facepiece, Adv 3100, rubber harness, small
10028998	Facepiece, Adv 3100, rubber harness, medium
10029000	Facepiece, Adv 3100, rubber harness, large
10031343	Facepiece, Adv 3100, Advantage harness, small
10031342	Facepiece, Adv 3100, Advantage harness, medium
10083796	Facepiece, Adv 4100, silicone, cloth harness, small
10031344	Facepiece, Adv 3100, Advantage harness, large
10083792	Facepiece, Adv 4100, silicone, cloth harness, medium
10083800	Facepiece, Adv 4100, silicone, cloth harness, large
10083797	Facepiece, Adv 4100, Hycar, cloth harness, small
10083793	Facepiece, Adv 4100, Hycar, cloth harness, medium
10083801	Facepiece, Adv 4100, Hycar, cloth harness, large
10083798	Facepiece, Adv 4100, silicone, rubber harness, small
10083794	Facepiece, Adv 4100, silicone, rubber harness, medium
10083802	Facepiece, Adv 4100, silicone, rubber harness, large
10083799	Facepiece, Adv 4100, Hycar, rubber harness, small
10083795	Facepiece, Adv 4100, Hycar, rubber harness, medium
10083803	Facepiece, Adv 4100, Hycar, rubber harness, large
493072	Facepiece, Ultra Elite, silicone, rubber harness, sm
493028	Facepiece, Ultra Elite, silicone, rubber harness, medium
493116	Facepiece, Ultra Elite, silicone, rubber harness, large
493064	Facepiece, Ultra Elite, Hycar, rubber harness, small
493020	Facepiece, Ultra Elite, Hycar, rubber harness, medium
493108	Facepiece, Ultra Elite, Hycar, rubber harness, large
10065330	RD-40 Inlet assembly, required for all Advantage 4100 facepieces.
10049630	Hose, Facepiece
10087129	Flow check device, facepiece (early 2008)
10049638	Optivizor
10082281	Hose, Optivizor extended length

NOTE: All hoods are white Tychem except where noted.

CARTRIDGES	
10080455	Cartridge, HE (hi-efficiency), (6 pack)
10080454	Combination Cartridge (OV/AG/HE), (6 pack)
10080456	Combination Cartridge (AG/AM/FM/HE), (effective against OV), (6-pack)
10068152	Spark and water protective cover, cartridge (single unit) (2 required)

HOOD AND HOOD ACCESSORIES	
10083329	Tyvek QC Hood, single bib, threaded connector, w/susp. (4 pack)
10083330	Tyvek QC Hood, double bib, threaded connector, w/susp. (4 pack)
10083381	Tyvek SL Hood, single bib, threaded connector, w/susp. (4 pack)
10083382	Tyvek SL Hood, double bib, threaded connector, w/susp. (4 pack)
10083383	Tyvek QC Hood, single bib, standard, w/suspension (4 pack)
10083384	Tyvek QC Hood, double bib, standard, w/suspension (4 pack)
10083385	Tyvek SL Hood, single bib, standard, w/suspension (4 pack)
10083386	Tyvek SL Hood, double bib, standard, w/suspension (4 pack)
10086926	Tyvek QC Hood, single bib, threaded connector, yellow, (4 pack)
10086925	Tyvek QC Hood, double bib, threaded connector, yellow, (4 pack)
10089665	Fastner kit, Velcro, Hood-to-V-Gard cap
10083843	Hose Clamp for standard hood, (pack of 6).
10049631	Hose, Hood
10082441	Cover lens, hood, (pack of 10)
10078469	Suspension only, w/sweatband Tyvek Hood
10083618	Sweatband, hood suspension, (pack of 10)
10087130	Flow check device, hood (early 2008)

MISC. ACCESSORIES	
10085084	"O" ring replacement, all hoses, (pack of 10)
10076108	Battery, standard, Optimair TL
10076109	Battery, Extended-Life, Optimair TL
10076110	Charger, standard battery, Optimair TL
10076107	Charger, Extended-Life battery, Optimair TL
10075799	Decon Cover, Optimair TL, clear, (pack of 5)
10087152	Decon Cover, Optimair TL, yellow, (pack of 5)
10091958	Decon Cover, Heavy Duty, Yellow (pack of 5)
10074725	Decon Belt (cam buckle)
10078201	Decon Belt (back pack buckle)
10049623	Comfort Belt
10088150	OptimAir TL Blower Unit only
10081414	Cover, Cartridge receptacle
10059112	Shoulder Strap, Optimair TL (early 2008)

**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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