

# OPTIMAIR® TL POWERED RESPIRATOR



**MSA**  
The Safety Company



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 close to the user’s ear.

### SMART DESIGN FEATURES

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

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.

### CARTRIDGES AND 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

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. Optimizor® (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.*



*Optimizor® loose-fitting respirator*



*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 Low flow and low battery alarms each have a distinctive tone.
- ④ Push-and-hold on/off switch eliminates accidental shutdown.
- ⑤ Audible and visible low-battery voltage alarm.
- ⑥ Combination cartridge switch adjusts for proper air-flow requirements.
- ⑦ Blower, battery, and cartridges share common platform with no external cables required.
- ⑧ Ergonomic housing design includes contoured blower housing and top-sided, angled breathing tube entry.

**Lightest belt mounted PAPR on the market.**



Comfort Belt



Threaded hood connection



Decon Cover



OptimAir TL PAPR Kit  
(cartridges not included)



Cartridges



Battery packs

## Ordering information

Kits		10083792	Facepiece, Adv 4100,silicone,cloth harness, md
10081114	Optimair TL Kit, for Facepieces, standard battery	10083800	Facepiece, Adv 4100,silicone,cloth harness, lg
10081115	Optimair TL Kit, for Facepieces, Extended-Life battery	10083797	Facepiece, Adv 4100,hycar,cloth harness, small
10081116	Optimair TL Kit, for Hoods, standard battery	10083793	Facepiece, Adv 4100,hycar,cloth harness, md
10081117	Optimair TL Kit, for Hoods, Extended-Life battery	10083801	Facepiece, Adv 4100,hycar,cloth harness, lg
Hood and Hood Accessories		10083798	Facepiece, Adv 4100,silicone,rubber harness, small
10083329	Tyvek QC Hood, single bib, threaded connector, w/ susp. (4 pack)	10083794	Facepiece, Adv 4100,silicone,rubber harness, md
10083330	Tyvek QC Hood, double bib, threaded connector, w/ susp. (4 pack)	10083802	Facepiece, Adv 4100,silicone,rubber harness, lg
10083381	Tyvek SL Hood, single bib, threaded connector, w/ susp. (4 pack)	10083799	Facepiece, Adv 4100,hycar,rubber harness, small
10083382	Tyvek SL Hood, double bib, threaded connector, w/ susp. (4 pack)	10083795	Facepiece, Adv 4100,hycar,rubber harness, md
10083383	Tyvek QC Hood, single bib, standard, w/ susp. (4 pack)	10083803	Facepiece, Adv 4100,hycar,rubber harness, lg
10083384	Tyvek QC Hood, double bib, standard, w/ susp. (4 pack)	493072	Facepiece, Ultra Elite, Silicone, rubber harness, sm
10083385	Tyvek SL Hood, single bib, standard, w/ susp. (4 pack)	493028	Facepiece, Ultra Elite, Silicone, rubber harness, md
10083386	Tyvek SL Hood, double bib, standard, w/ susp. (4 pack)	493116	Facepiece, Ultra Elite, Silicone, rubber harness, lg
10086926	Tyvek QC Hood, single bib, threaded connector, yellow, (4 pack)	493064	Facepiece, Ultra Elite, Hycar, rubber harness, sm
10086925	Tyvek QC Hood, double bib, threaded connector, yellow, (4 pack)	493020	Facepiece, Ultra Elite, Hycar, rubber harness, md
10089665	Fastner kit, Velcro, Hood-to-Vgard cap	493108	Facepiece, Ultra Elite, Hycar, rubber harness, lg
10083843	Hose Clamp for standard hood, (pack of 6).	10065330	RD-40 Inlet assembly, required for all Advantage 4100 facepieces.
10049631	Hose, Hood	10049630	Hose, Facepiece
10082441	Cover lens, hood, (pack of 10)	10087129	Flow check device, facepiece (early 2008)
10078469	Suspension only, w/ sweatband Tyvek Hood	10049638	Optivizor
10083618	Sweatband, hood suspension, (pack of 10)	10082281	Hose, Optimizor extended length
10087130	Flow check device, hood (early 2008)	Misc. Accessories	
Cartridges		10085084	"O" ring replacement, all hoses, pk of 10
10080455	Cartridge, HE (hi-efficiency), (6 pack)	10076108	Battery, standard, Optimair TL
10080454	Combination Cartridge (OV/AG/HE), (6 pack)	10076109	Battery, Extended-Life, Optimair TL
10080456	Combination Cartridge (AG/AM/FM/HE), (effective against OV), (6-pack)	10076110	Charger, standard battery, Optimair TL
		10076107	Charger, Extended-Life battery, Optimair TL
10068152	Spark and water protective cover, cartridge (single unit)(2 required)	10075799	Decon Cover, Optimair TL, clear, (pack of 5)
Facepieces and Accessories		10087152	Decon Cover, Optimair TL, yellow, (pack of 5)
10028999	Facepiece, Adv 3100,Rubber harness, small	10091958	Decon Cover, Heavy Duty, Yellow (pack of 5)
10028998	Facepiece, Adv 3100,Rubber harness, med	10074725	Decon Belt (cam buckle)
10029000	Facepiece, Adv 3100,Rubber harness, lg	10078201	Decon Belt (back pack buckle)
10031343	Facepiece, Adv 3100,Advantage harness, small	10049623	Comfort Belt
10031342	Facepiece, Adv 3100,Advantage harness, med	10088150	OptimAir TL Blower Unit only
10083796	Facepiece, Adv 4100,silicone,cloth harness, small	10081414	Cover, Cartridge receptacle
10031344	Facepiece, Adv 3100, Advantage harness, lg	10059112	Shoulder Strap, Optimair TL (early 2008)

NOTE: All hoods are white Tychem except where noted.

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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