OptimAir® TL Powered Respirator

Because every life has a **purpose**...
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.
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- Audible and visible low-flow alarm.
- Standard battery has a minimum run time of 4-hours regardless of cartridge being used.
- Push-and-hold on/off switch eliminates accidental shutdown.
- Audible and visible low-battery voltage alarm.
- Combination cartridge switch adjusts for proper air-flow requirements.
- Blower, battery, and cartridges share common platform with no external cables required.
- 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
- 10080455 - Optimair TL Kit, for Facepieces, standard battery
- 10080454 - Optimair TL Kit, for Facepieces, Extended-Life battery
- 10080456 - Optimair TL Kit, for Hoods, standard battery
- 1008152 - Optimair TL Kit, for Hoods, Extended-Life battery

### FACEPIECES AND ACCESSORIES
- 1008999 - Facepiece, Adv 3100, rubber harness, small
- 1002998 - Facepiece, Adv 3100, rubber harness, medium
- 1003143 - Facepiece, Adv 3100, Advantage harness, small
- 1003142 - Facepiece, Adv 3100, Advantage harness, medium
- 10083796 - Facepiece, Adv 4100, silicone, cloth harness, small
- 10031344 - Facepiece, Adv 4100, Advantage harness, large
- 10083792 - Facepiece, Adv 4100, silicone, cloth harness, medium
- 10083793 - Facepiece, Adv 4100, Hyac, cloth harness, small
- 10083797 - Facepiece, Adv 4100, Hyac, 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, Hyac, rubber harness, small
- 10083795 - Facepiece, Adv 4100, Hyac, rubber harness, medium
- 10083803 - Facepiece, Adv 4100, Hyac, rubber harness, large
- 493072 - Facepiece, Ultra Elite, silicone, rubber harness, small
- 493028 - Facepiece, Ultra Elite, silicone, rubber harness, medium
- 493116 - Facepiece, Ultra Elite, silicone, rubber harness, large
- 493064 - Facepiece, Ultra Elite, Hyac, rubber harness, small
- 493030 - Facepiece, Ultra Elite, Hyac, rubber harness, medium
- 493180 - Facepiece, Ultra Elite, Hyac, 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 - Optimizer
- 10082281 - Hose, Optimizer extended length

### CARTRIDGES
- 10080453 - 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
- 10063329 - Tyvek QC Hood, single bib, threaded connector, w/susp. (4 pack)
- 10063330 - Tyvek QC Hood, double bib, threaded connector, w/susp. (4 pack)
- 10063381 - Tyvek SL Hood, single bib, threaded connector, w/susp. (4 pack)
- 10063382 - Tyvek SL Hood, double bib, threaded connector, w/susp. (4 pack)
- 10063383 - Tyvek QC Hood, single bib, standard, w/suspension (4 pack)
- 10063384 - Tyvek QC Hood, double bib, standard, w/suspension (4 pack)
- 10063385 - Tyvek SL Hood, single bib, standard, w/suspension (4 pack)
- 10063386 - Tyvek SL Hood, double bib, standard, w/suspension (4 pack)
- 10089626 - Tyvek QC Hood, single bib, threaded connector, yellow, (4 pack)
- 10089625 - 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
- 10082241 - Cover lens, hood, (pack of 10)
- 10078396 - Suspension only, w/sweatband Tyvek Hood
- 10083618 - Sweatband, hood suspension, (pack of 10)
- 10087130 - Flow check device, hood (early 2008)

### MISC. ACCESSORIES
- 1008084 - “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
- 10076170 - Charger, Extended-Life battery, Optimair TL
- 10075999 - 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)
- 10087126 - 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:** All hoods are white Tychem except where noted.