

MAXAIR CAPR[®]: The Internal PAPR System by Bio-Medical Devices International

Improve your PPE with the most innovative and easy-to-use Powered Air-Purifying Respirator available. No fit testing. No leaking N95 masks. No fogging, No goggles.



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MAXAIR CAPR® SYSTEM

In laboratories and autopsy suites working with agents that have a known potential for aerosol as well as contact transmission, additional protection may be provided by personal protective equipment such as the MAXAIR CAPR Systems. The MAXAIR CAPR eliminates the conventional PAPR reliance on cumbersome air tubes and bulky, belt mounted blower units. When compared to conventional PAPRs and N95 respirator masks, the lightweight MAXAIR Helmets, with their positive pressure air flow and safety LEDs, stand out as a superior method of personal respiratory protection.



A. The quietest PAPR available makes all communication with your team easy and effective.

B. The CAPR System solved the problem of N95 fit testing and inability to seal with facial hair. The positive pressure air flow means gaps don't matter.

C. Putting on or taking off your MAXAIR CAPR is simple and easy without external bulky breathing tubes and blower units. The CAPR only requires a small cord attached to a wearable battery with a quick disconnect button.

D. The viewing field of the MAXAIR is unparalleled. The CAPR system makes wearing glasses possible without worrying about them falling off or fogging.

PERFORMANCE

Superior Filtration & Protection

The MAXAIR CAPR System holds the HE (High Efficiency Particulate Air) NIOSH Classification, commonly referred to as "HEPA". This means the CAPR filters at least 99.97% of airborne particles. This rating is much safer than the N95 minimal level of filtration approved by NIOSH.

Long Battery Life

The Standard CAPR's Lithium-Ion battery provides an 8–10 hour life between charges. The helmet's LED battery life indicator lights are always on during operation in peripheral vision. Larger battery with 12–15 hour life available. Standard battery systems fully recharge in 4–6 hours, large battery in 5–7 hours.

CONVENIENCE & COMFORT

Lightweight & Quiet

The CAPR System eliminates bulky hoses and heavy fan units on other PAPRs, and replaces them with a lightweight helmet, similar to a bicycle safety helmet. MAXAIR is the quietest PAPR available, typically testing at less than 62dB.

Airflow Management

The user can adjust the switch on the back of the helmet between Low (6-7 cfm), Medium (7-8 cfm), and High (8-9 cfm).

Easy Removal

Innovative design and minimal parts make taking off and putting on the CAPR system fast and easy, while lowering the risk of self-contamination.

AFFORDABILITY

Eliminate Fit Testing Costs

One of the biggest problems with N95 respirators is the need for fit testing in order for the mask to work properly. MAXAIR CAPRs do not require fit testing.

Long Lasting HE Filters

MAXAIR CAPR's High Efficiency XP Filters last for 8-12 months with continuous daily use. The money saved from no longer buying N95 masks and respirator cartridges can be significant.

Low Maintenance

The CAPR replaces costly and complicated PAPR systems, expensive N95 masks, goggles, and simple surgical masks all in one easy-to-use and maintain system.



PERSONAL PROTECTIVE EQUIPMENT (PPE)

MAXAIR CAPR® System Filters

The MAXAIR CAPR® System filter designations indicate they meet the NIOSH HE approval for PAPR filtration. Additionally, for Shroud and Hood configurations, they meet the HAPF, APF of 1000, criteria. Assigned Protection Factor (APF) means the workplace level of respiratory protection that a respirator or class of respirators is expected to provide to employees when the employer implements a continuing, effective respiratory protection program. OSHA states that all cuff configurations receive an APF of 25 protection rating. N95 respirators only carry an APF rating of 10, assuming they are fit tested and being worn properly.

The MAXAIR System provides two filter options for users depending on preference. Both offer the same level of particulate filtration, however, the 2166-10 Nuisance Organic Vapor (N-OV) Filter Cartridge is a HE filter combined with charcoal odor filtration to provide an additional level of comfort and convenience. Because the odor filtration is accomplished utilizing charcoal, it is important to place the filter in an airtight container in between uses. This will ensure the life of your odor filter to roughly thirty active days.

Note: CAPR XP Filter Cartridges do NOT filter or neutralize formalin fumes.

SPECIFICATIONS

CAPR Configuration

- DLC Lens-Cuff
- DLC Shroud
- DLC Double Shroud
- Hood, Single Shroud
- Hood, Double Shroud

NIOSH Filtration Level

- HE: ≥99.97% of airborne particles
- HE: ≥99.97% of airborne particles
- HE: ≥99.97% of airborne particles
- HE: ≥99.97% of airborne particles
- HE: ≥99.97% of airborne particles

APF

- 25 APF
- 1000 APF
- 1000 APF
- 1000 APF
- 1000 APF



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Filter Ordering Options

| Part ID | Description | Estimated Lifespan |
|---------|--|--|
| 2167-10 | XP PLEATED FILTER CARTRIDGE (box of 3) | 8-12 months |
| 2166-10 | XP N-OV FILTER CARTRIDGE (box of 3) | Particulate: 8-12 months Odor: 30 days |



PERSONAL PROTECTIVE EQUIPMENT (PPE)

MAXAIR CAPR® Disposable Lens Cuffs

The MAXAIR® Systems DLC (Disposable Lens Cuff) consists of an integrated Lens and Cuff. It is the standard and basic face cover used in MAXAIR Systems PAPR configurations. **Disposable Lens Cuffs are typically the CAPR cover of choice for the majority of pathology labs, anatomy labs, and medical examiner offices.** The DLCs are NIOSH approved and provide respiratory protection against airborne particulate contaminants when properly configured and donned with a MAXAIR CAPR® Powered Air Purifying Respirator (PAPR) System.

DLCs are packaged 40 in a polybag, and one polybag of 40 in a dispensing box. The ML box is longer than the SM box so that they are easily identified and can be stacked appropriately, a SM Box on top of an ML box. The DLCs are packaged in two types of boxes, the Standard Cardboard Box and the Re-useable Plastic Box.

For more protection and comfort than an N95 mask and the full protection of a PAPR, the MaxAir CAPR System with the Lens Cuff configuration is the ideal choice.

Disposable Lens Cuff Ordering Options

| Part ID | Description | Dimensions |
|-------------|--|--------------------------|
| 2365-02 ML | DLC Lens-Cuff, MED/LG, cardboard box (box of 40) | 18.25" x 8.75" x 2.5" |
| 2365-02 SM | DLC Lens-Cuff, SM/MED, cardboard box (box of 40) | 16" x 8.75" x 2.5" |
| 2365RB 02ML | DLC Lens-Cuff ML plastic box (box of 40) | 18.825" x 8.875" x 2.75" |
| 2365RB 02SM | DLC Lens-Cuff SM plastic box (box of 40) | 16" x 8.875" x 2.75" |



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Building Your MAXAIR CAPR® System

MAXAIR CAPR Systems are uniquely designed Powered Air Purifying Respirators that are setting standards for today and the future of respiratory and contact protection. CAPR Systems provide workers an unprecedented level of safety, comfort, convenience, and cost effectiveness while protecting them against harmful aerosolized particulates. MAXAIR has pioneered the NO-Hose, integrated Helmet design, changing the standard for practical PPE.

1. CHOOSE YOUR BASE SYSTEM BATTERY SIZE

The base unit of the MAXAIR CAPR System consists of the Integrated Helmet, Battery Charger, Easy-Clip Battery Belt, and the Lithium-Ion Battery Pack. The Standard (Medium) CAPR's Lithium-Ion battery provides an 8–10 hour life between charges. The Large Battery CAPR System has a 12–15 hour life. Standard battery systems fully recharge in 4–6 hours, large battery systems in 5–7 hours. The large battery system typically costs less than 10% more per unit.

Base Unit Ordering Options

| Part ID | Description | Battery Life | Full Recharge Time |
|----------------|-----------------------------|--------------|--------------------|
| CA-DLC-CAPR-36 | CAPR SYSTEM, MEDIUM BATTERY | 8–10 Hours | 4–6 Hours |
| CA-DLC-CAPR-37 | CAPR SYSTEM, LARGE BATTERY | 12–15 Hours | 5–7 Hours |

2. CHOOSE YOUR FILTER TYPE

Both MAXAIR filters offer the same level of particulate filtration, however, the 2166-10 Nuisance Organic Vapor (N-OV) Filter Cartridge is a HE filter combined with charcoal odor filtration to provide an additional level of comfort and convenience. Because the odor filtration is accomplished utilizing charcoal, it is important to place the filter in an airtight container in between uses. This will ensure the life of your odor filter to roughly thirty active days.

Filter Ordering Options

| Part ID | Description | Estimated Lifespan |
|---------|--|--|
| 2167-10 | XP PLEATED FILTER CARTRIDGE (box of 3) | 8–12 months |
| 2166-10 | XP N-OV FILTER CARTRIDGE (box of 3) | Particulate: 8–12 months Odor: 30 days |

3. ADD YOUR PROTECTIVE FILTER COVER CAP & REPLACEMENT COMFORT STRIPS

The Filter Cover Cap serves two purposes. It provides physical protection for the Filter Cartridge. It also provides the attachment points for the Cuffs and Shrouds to provide face and head seals when used with the MAXAIR Helmets. The Velcro backed foam strips are for comfort and hygiene. The CAPR Systems utilize a removable front headband comfort strip. The rear headband has a “cleanable” closed-cell foam strip that does not need routine replacement.

Consumable Ordering Options

| Part ID | Description | Estimated Lifespan |
|----------|--|---------------------------------------|
| 2061-08 | Filter Cover Cap, No Adapters (box of 3) | Unlimited, unless damaged |
| 2000-201 | Front Comfort Strips (box of 36) | 1–7 days, depending on use/preference |

4. ADD YOUR DISPOSABLE LENS CUFFS

Disposable Lens Cuffs are typically the CAPR cover of choice for the majority of pathology labs, anatomy labs, and medical examiner offices. The DLCs are NIOSH approved and provide respiratory protection against airborne particulate contaminants when properly configured and donned with a MAXAIR CAPR® System. *Other shroud and hood covering options listed in the optional accessories section.*

Disposable Lens Cuff Ordering Options

| Part ID | Description | Dimensions |
|-------------|---|--------------------------|
| 2365-02 ML | DLC Lens-Cuff, MED/LG, carboard box (box of 40) | 18.25" x 8.75" x 2.5" |
| 2365-02 SM | DLC Lens-Cuff, SM/MED, carboard box (box of 40) | 16" x 8.75" x 2.5" |
| 2365RB 02ML | DLC Lens-Cuff ML plastic box (box of 40) | 18.825" x 8.875" x 2.75" |
| 2365RB 02SM | DLC Lens-Cuff SM plastic box (box of 40) | 16" x 8.875" x 2.75" |



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See Reverse Side for Optional Accessories Available for the MAXAIR CAPR® System.

Accessorizing Your MAXAIR CAPR® System

In addition to replacement parts, MAXAIR provides everything from duffle bags to helmet hooks and full storage and deployment carts.

5. CONSIDER ADDITIONAL OPTIONAL ACCESSORIES

A number of optional accessories are available to help with the deployment, maintenance, and storage of your MAXAIR CAPR System.

Optional Accessories Ordering Options

| Part ID | Description |
|----------|--|
| 2782-06 | Cart, includes 6 battery charging stations |
| 2762-01 | Cart Helmet Shelf, internal |
| 2742-01 | Cart Storage Rack, external |
| 2000-SB | MaxAir System Duffle Bag |
| 2600-02 | Li-Ion Battery Charger, single |
| 2602-06 | Li-Ion Battery Charger, 6-gang |
| 2602-06B | Li-Ion Battery Charger Kit, 6-gang (no chargers) |
| 2000-209 | Back Headband Comfort Strip, box of 5 |
| 2000-204 | Helmet Hook (box of 6) |

6. EXPLORE OTHER PROTECTIVE COVER CONFIGURATIONS

Disposable Lens Cuffs are typically the CAPR cover of choice for the majority of pathology labs, anatomy labs, and medical examiner offices. The DLCs are NIOSH approved and provide respiratory protection against airborne particulate contaminants when properly configured and donned with a MAXAIR CAPR® System. Other shroud and hood covering options are available and can be considered if a higher level of APF is needed or desired. The Cuff configurations are the primary choice where full 360° head contact and fluid contamination is not of major concern as the neck and side and back of the head are exposed with a Cuff configuration.

Shroud configurations are usually recommended over cuffs when:

1. Contact and fluid contamination needs to be considered
2. When it is acceptable and desirable to use the Filter multiple times.

Hood configurations are typically the configuration of choice when the combination of maximum protection of a Shroud is needed or desired, and the easy discarding of the entire head cover and filter is acceptable and economic. Both Shroud and Hood configurations are available in both single or double shroud styles.

1. The outer shroud is always worn on the outside of the outer body gown to protect against splash.
2. The inner shroud of the double-shroud and double-hood configurations provides
 - a. An improved “airborne contaminant seal”.
 - b. A filtered air escape mechanism

DLC, Shroud, and Hood Ordering Options

| Part ID | Description |
|-------------|---|
| 2365-02 ML | DLC Lens-Cuff, MED/LG, carboard box (box of 40) |
| 2365-02 SM | DLC Lens-Cuff, SM/MED, carboard box (box of 40) |
| 2365RB 02ML | DLC Lens-Cuff ML plastic box (box of 40) |
| 2365RB 02SM | DLC Lens-Cuff SM plastic box (box of 40) |
| 2260-05ML | DLC Shroud (Box of 20) |
| 2260-05SM | DLC Shroud (Box of 20) |
| 2261-01ML | DLC Double Shroud (Box of 20) |
| 2261-01SM | DLC Double Shroud (Box of 20) |
| 2271PB-07ML | Hood, Single Shroud, MED/LG (20/box) |
| 2271PB-07SM | Hood, Single Shroud, SM/MED (20/box) |
| 2272PB-07ML | Hood, Double Shroud, MED/LG (20/box) |
| 2272PB-07SM | Hood, Double Shroud, SM/MED (20/box) |



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