FEATURES

- Less cost than conventional full-facepiece respirators.
- Flexible urethane lens allows the facepiece to conform to the wearer's facial contours.
- 40% lighter than conventional full-facepiece style respirators.
- Small, medium and large sizes fit a wide variety of faces.
- Bayonet-mounted filters, cartridges and combination cartridges feature low lug height for easy attachment.
- Cartridges are color-coded for easy identification.

DESCRIPTION

For those operations that require low-maintenance respirators, the Advantage 1000 full-facepiece air-purifying respirator provides protection against a variety of respiratory hazards.

Created with economy and ease-of-use in mind, this negative-pressure respirator requires only routine filter replacement. When the facepiece wears out, the complete unit can be replaced.

The respirator comes in a convenient storage/disposal bag imprinted with instructions for donning and use on the back of the bag.

APPLICATION

Low-maintenance respirators are suitable for a variety of applications.

In situations where individual employees are assigned the task of respirator care, low-maintenance respirators are convenient because the only service required is routine washing and inspection.

Low-maintenance respirators are also advantageous when respirator use is infrequent and daily care is not required. And, they can be used in situations where cleaning is difficult because of exposure to grease, grime, coatings or other contaminants that make it more economical to use and discard a low-maintenance respirator.

Even if a facility has a centralized respirator maintenance program, low-maintenance respirators are sometimes used in select departments, where specialized needs exist.
The full-facepiece Advantage 1000 Respirator is constructed of super-soft black-colored Hycar rubber that provides the feel and comfort of silicone, but with better chemical permeation resistance. For exceptional fit, the facepiece has a unique inturned lip seal that provides the best possible seal against a wide range of facial contours. It is available in three sizes.

The Advantage 1000 Facepiece also features a distinctive, flexible urethane lens that is integrally bonded to the face seal, eliminating the need for rigid lens retainers that can cause unwanted pressure points. The lens is so flexible that it can literally be folded in half without breaking or losing resiliency. This helps the facepiece better conform to the wearer’s unique facial contours and provides an improved field of vision.

Standard equipment includes a speaking diaphragm for clear, short-range communications and a nosecup, to reduce lens fogging in low temperatures or high-humidity conditions.

The optional, clip-on lens shields provide added radiation protection in nuclear environments and extended lens life.

<table>
<thead>
<tr>
<th>Description</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advantage 100 Respirator, with speaking diaphragm and nosecup</td>
<td>805414</td>
<td>805408</td>
<td>805420</td>
</tr>
</tbody>
</table>
The Advantage 1000 Facepiece is based on proven computer-aided design research conducted by MSA. The facepiece is held in place by a fully elastic, six-point head harness that adjusts easily, speeding donning and doffing. This harness style also reduces hair pulling.

In addition to low-maintenance convenience, the Advantage 1000 Respirator is 40 percent lighter and considerably less expensive than conventional full-face respirators. It also uses the same cartridges as the Advantage 200 Respirator.

Requiring only routine filter replacement, the Advantage 1000 Respirator is approved by NIOSH for use against a variety of respiratory hazards.

LIMITATIONS

As an air-purifying device, the Advantage 1000 Respirator must not be used in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life or health (IDLH).

The Advantage 1000 Respirator must not be worn for protection against gases or vapors with poor warning properties.

The Advantage 1000 Respirator must not be used in atmospheres containing more than 100 times the exposure limit for the contaminant present.

FILTERS AND CARTRIDGES

Users can choose from a complete line of cartridges that protect against a wide variety of contaminants. Filter cartridges protect against dusts, particles and mists. Chemical cartridges protect against gases and vapors. Combination cartridges deliver protection from both particulate and gaseous contaminants.

The GME and GME P100 Super Cartridges from MSA are designed to be used for any application where GMA, GMB, GMC, GMD or GMF cartridges are currently being used.

The GME Super Cartridge provides protection from 10 specific gases and vapors. Adding a prefilter to the GME, adds protection against paints, pesticides, dusts, mists and fumes.

A combination cartridge, the GME-P100 Super Cartridge is NIOSH-approved for 16 specific compounds including gases, vapors, toxic dusts and mists.

Designed for easy installation, Advantage Series Cartridges use the latest bayonet-style mounting design. Featuring a low lug height and lead-in connectors, the cartridges lock into place with a single twist. An advanced engineering design makes negative pressure fit-testing easier to perform.

All cartridges are interchangeable between the Advantage 200 and 1000 Respirators and are color-coded to indicate the type of protection offered. Most cartridges are incinerable.

The complete Advantage line of particulate, chemical and combination cartridges are approved under 42 CFR Part 84.
**WARNING**

Below is a partial list of gaseous materials for which chemical cartridge respirators must not be used for respiratory protection (for routine use) regardless of concentration or time of exposure unless: (1) the cartridge is equipped with an end-of-service-life indicator, or (2) a documented cartridge change-out schedule is developed based in objective information or data (including MSA service-life performance data against the specific material) that will ensure that cartridges are changed before the end of their service life. Failure to follow this warning can result in serious personal injury or death. This partial list is far from complete and is offered as a guide to many of the contaminants found in industry. Contact MSA for further information on other specific materials.

### ADVENTAGE® CARTRIDGE ORDERING INFORMATION

<table>
<thead>
<tr>
<th>MSA Cartridge Designation</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMA (OV)</td>
<td>815355 (2 in pkg.)</td>
</tr>
<tr>
<td>GMA **</td>
<td>815362 (2 in pkg.)</td>
</tr>
<tr>
<td>GMB (AG)</td>
<td>815356 (2 in pkg.)</td>
</tr>
<tr>
<td>GMB **</td>
<td>815363 (2 in pkg.)</td>
</tr>
<tr>
<td>GMC (OV/AG)</td>
<td>815357 (2 in pkg.)</td>
</tr>
<tr>
<td>GMD (AM/MA)</td>
<td>815358 (2 in pkg.)</td>
</tr>
<tr>
<td>GMD **</td>
<td>815365 (2 in pkg.)</td>
</tr>
<tr>
<td>GME (Multigas)</td>
<td>815359 (2 in pkg.)</td>
</tr>
<tr>
<td>GME **</td>
<td>815366 (2 in pkg.)</td>
</tr>
<tr>
<td>GMI **</td>
<td>815641 (2 in pkg.)</td>
</tr>
<tr>
<td>Mersorb</td>
<td>815361 (2 in pkg.)</td>
</tr>
<tr>
<td>Mersorb 2 **</td>
<td>815368 (2 in pkg.)</td>
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<tr>
<td>Low Profile</td>
<td>815369 (2 in pkg.)</td>
</tr>
<tr>
<td>Stand-alone &amp; cover</td>
<td>816662 N95 (10 in pkg.)</td>
</tr>
<tr>
<td></td>
<td>816661 N95 (50 in pkg.)</td>
</tr>
<tr>
<td></td>
<td>809999 Adapters (2 in pkg.; 2 req.)</td>
</tr>
<tr>
<td></td>
<td>489553 Reusable snap-on cover (1 in pkg.; 2 req.)</td>
</tr>
<tr>
<td>Prefilter &amp; cover</td>
<td>815394 N95 (10 in pkg.)</td>
</tr>
<tr>
<td></td>
<td>815397 N95 (50 in pkg.)</td>
</tr>
<tr>
<td></td>
<td>815382 Reusable snap-on cover (2 in pkg.; 2 req.)</td>
</tr>
<tr>
<td>Prefilter &amp; cover R95</td>
<td>815401 R95 Reusable snap-on cover (1 in pkg.; 2 req.)</td>
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</tbody>
</table>

N95, covers and adapters required for Advantage Respirators.

*Escape only. ** Effective against, but not NIOSH approved for Iodine Vapor.

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### Definitions

- **N95-Particulate Filter (95% filter efficiency level)** effective against particulate aerosols *free of oil*, time use restrictions may apply.
- **R95-Particulate Filter (95% filter efficiency level)** effective against all particulate aerosols; time use restrictions may apply.
- **P100-Particulate Filter (99.97% filter efficiency level)** effective against all particulate aerosols.

### Notes

1. Do not use in atmospheres containing less than 19.5 percent oxygen, in atmospheres containing gases or vapors or in atmospheres immediately dangerous to life and health.
2. Do not use in atmospheres containing less than 19.5 percent oxygen, or in atmospheres immediately dangerous to life and health.
3. Do not wear for protection against organic vapors with poor warning properties or those which generate high heats of reaction with the sorbent material in the cartridge.
4. 99.97 percent efficient against 0.3 micron DOP.

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**Organic Vapor**
- Acrolein
- Aniline
- Arsenic
- Bromine
- Carbon monoxide
- Diisocyanates
- Dimethyl sulfide
- Hydrogen cyanide
- Hydrogen selenide
- Phosphorus trichloride
- Nitric acid
- Nitro compounds
- Methanol
- Methyl bromide
- Methyl chloride
- Methylene chloride
- Nickel carbonyl

**Acid Gases**
- Carbon disulfide
- Chlorine
- Chlorine dioxide
- Hydrogen chloride
- Hydrogen sulfide
- Ammonia
- Methylamine
- Formaldehyde
- Hydrogen fluoride
- Mercury vapor
- Chlorine dioxide

**Organic Gases**
- Benzene
- Carbon tetrachloride
- Formaldehyde
- Vinyl chloride
- Phosgene
- Urethane or other diisocyanate-containing paints

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**Nickel carbonyl**
**Phosgene**
**Urethane or other diisocyanate-containing paints**

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**Organic Vapor**
- Vinyl chloride
- Phosphorus trichloride
- Nitrogen oxides
- Nitric acid
- Nitrobenzene
- Nitromethane
- Phosphine
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**ESP® Communications System**
The ESP unit consists of a battery-operated microphone and speaker, housed within a waterproof, injection-molded, high-strength polymer case. It weighs 8 ounces. For more complete information, see Data Sheet 01-01-21.

**Part No.** | **Description**  
--- | ---  
805074 | ESP System Conversion Kit for Advantage 1000 Facepiece (battery not included)

**Cover Lens for Advantage 1000 Respirator**
This clear, flexible cover lens protects the facepiece lens from scratches during storage, handling and use.

**Part No.** | **Description**  
--- | ---  
813832 | Advantage 1000 Cover Lens, package of 25

**Lens Shields**
For added impact protection, a polycarbonate lens shield clips into place on the Advantage 1000 Facepiece. For nuclear personnel, the lens shield provides an additional level of eye protection and increased beta-radiation protection.

**Part No.** | **Description**  
--- | ---  
806463 | Small Clear  
806462 | Medium/Large Tinted  
806465 | Small Tinted  
806464 | Medium/Large

**MSA Confidence Plus™ Germicidal Cleaner**
Mix with warm water for a germicidal cleaner that is effective against various micro-organisms including immunodeficiency virus Type 1 (HIV-1) (associated with AIDS). EPA approved for use on safety equipment.

**Part No.** | **Description**  
--- | ---  
10009971 | MSA Confidence Plus Germicidal Cleaner in 32 oz. bottle

**Carrying Pouch**
Belt-mounted carrying pouch with Velcro closures.

**Part No.** | **Description**  
--- | ---  
817040 | Belt-mounted carrying pouch for Advantage 1000 Respirator

**Spectacle Kit**
For use by workers who must wear corrective lenses, easily inserted into the facepiece. Kit includes wire support, rubber guide and one pair of metal-frame spectacles.

**Part No.** | **Description**  
--- | ---  
816137 | Prescription Spectacle Kit, Universal bridge, 44mm lens size (less lenses); for use with Advantage 1000 Facepiece

**MSA Confidence Plus™ Germicidal Cleaner**
Mix with warm water for a germicidal cleaner that is effective against various micro-organisms including immunodeficiency virus Type 1 (HIV-1) (associated with AIDS). EPA approved for use on safety equipment.

**Part No.** | **Description**  
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10009971 | MSA Confidence Plus Germicidal Cleaner in 32 oz. bottle

**Carrying Pouch**
Belt-mounted carrying pouch with Velcro closures.

**Part No.** | **Description**  
--- | ---  
817040 | Belt-mounted carrying pouch for Advantage 1000 Respirator
Online Response® Respirator Selector

Available on the Internet at www.MSAnet.com:8001. Online Response Respirator Selector helps identify the proper respirator you need from the broadest range of respiratory protective devices available. Recommends respirators for more than 700 chemical hazards, has nearly 3,000 chemical synonyms, and lists up to 27 categories of respirators, with MUCs. Is generic in nature.

Qualitative Fit Test Kits

Allow users to qualitatively check the fit of all MSA respirators. The kits use Bitrex, isopentyl acetate (banana oil) or saccharin as testing agents.

Banana Oil Qualitative Fit Test Kit

Part No. Description
801629 Qualitative Fit Test Kit, in cardboard box
801628 Qualitative Fit Test Kit, in Pelican® case

Saccharin Qualitative Fit Test Kit

Part No. Description
697444 Bitrex Qualitative Fit Test Kit
697287 Saccharin Qualitative Fit Test Kit

Bitrex Qualitative Fit Test Kit

Part No. Description
697444 Bitrex Qualitative Fit Test Kit

Comfo Cartridge Adapter for Advantage 200/1000 Respirators

This adapter allows for the use of threaded Comfo Cartridges on the Advantage 200 Half-mask Respirator or Advantage 1000 Full-face Respirator.

Part No. Description
809999 Advantage Adapter, package of 2

Probe Assembly for Advantage 1000

Probe Assembly for quantitative fit testing the Advantage 1000. Probe assembly replaces the speaking diaphragm. Consists of a probed disc with tubing, a wrench to remove the speaking diaphragm retaining ring, and instructions.

Part No. Description
1000627 Probe Assembly for Advantage 1000 Respirator

Personal Safety Equipment Towelettes

Provides an excellent method for wiping and refreshing respirators, hard hats and other safety equipment between full cleaning periods.

Part No. Description
697382 Canister with 220 towelettes
697383 Box of 100 individually wrapped towelettes

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.