Advantage® 420
Half-Mask Respirator

MSA
The Safety Company

Comfortable Fit and Balance

Mask can be adjusted to wearer for a comfortable fit, helping to reduce potential pressure points throughout the day. Adjustable crown strap adapts to different head sizes.

Ease of Use

Patented yoke and harness design enables quick and easy switch between lock-down and drop-down modes. Drop-down mode allows users to remove the facepiece and rest it safely against the chest while maintaining use of head protection they may be wearing. Lock-down harness mode allows the user to lock in personal fit so that the respirator can be donned without further adjustments.

Lower Total Cost of Ownership

The Advantage 420 has only 3 major components, keeping replacement and maintenance costs down.

1. Head harness
2. Facepiece blank
3. 4-point yoke

Choices and Flexibility. The Advantage 420 Respirator can be used with plastic Advantage Cartridges or threaded metal Comfo Cartridges. **Adapter part number 809999 must be purchased to use Comfo Cartridges**.



Completely latex-free

Three major components make a complete respirator



Advantage Respirator Cartridges

The Advantage line of particulate, chemical and combination cartridges is NIOSH-certified to 42 CFR, Part 84 and provides lightweight, low-profile performance. Cartridges fit 200 LS and 420 Half-Mask, 1000, 3000 and 4000 Series Full-Facepiece Advantage Respirators.

MSA Cartridge Description	Re-Order Part Number	Color Coding	Organic Vapor OV	Acid Gases: Chlorine CL	Acid Gases: Sulfur Dioxide SD	Acid Gases: Chlorine Dioxide CD	Acid Gases: Hydrogen Chloride HC	Acid Gases: Hydrogen Sulfide HS	Ammonia AM	Methylamine MA	Formaldehyde FM	Hydrogen Fluoride HF	Mercury Vapor MV	Filter Type & Efficiency: P100	Filter Type & Efficiency: R95	Filter Type & Efficiency: N95	See **Notes** below
Organic Vapor (GMA)	815355		●														2,3
Organic Vapor w/N95 Prefilter (GMA)	815355 w/815394 or 816357		●													●	2,3,5
Organic Vapor w/R95 Prefilter (GMA)	815355 w/815397		●												●		2,3,5
Organic Vapor/P100 (GMA)	815362		●											●			2,3,4
Acid Gas (GMB)	815356			●	●	●	●	●									2
Acid Gas w/N95 Prefilter (GMB)	815356 w/815394 or 816357			●	●	●	●	●								●	2,5
Acid Gas w/R95 Prefilter (GMB)	815356 w/815397			●	●	●	●	●							●		2,5
Acid Gas/P100 (GMB)	815363			●	●	●	●	●						●			2,4
Organic Vapor/Acid Gas (GMC)	815357		●	●	●	●	●	●									2,3
Organic Vapor/Acid Gas w/N95 Prefilter (GMC)	815357 w/815394 or 816357		●	●	●	●	●	●								●	2,3,5
Organic Vapor/Acid Gas w/R95 Prefilter (GMC)	815357 w/815397		●	●	●	●	●	●							●		2,3,5
Organic Vapor/Acid Gas/P100 (GMC)	815364		●	●	●	●	●	●						●			2,3,4
Ammonia/Methylamine (GMD)	815358								●	●							2,3
Ammonia/Methylamine w/N95 Prefilter (GMD)	815358 w/815394 or 816357								●	●						●	2,3,5
Ammonia/Methylamine w/R95 Prefilter (GMD)	815358 w/815397								●	●					●		2,3,5
Ammonia/Methylamine/P100 (GMD)	815365								●	●				●			2,3,4
Multigas (GME)	815359		●	●	●	●	●	●	●	●	●	●					2,3
Multigas w/N95 Prefilter (GME)	815359 w/815394 or 816357		●	●	●	●	●	●	●	●	●	●				●	2,3,5
Multigas w/R95 Prefilter (GME)	815359 w/815397		●	●	●	●	●	●	●	●	●	●			●		2,3,5
Multigas/P100 (GME)	815366		●	●	●	●	●	●	●	●	●	●		●			2,3,4
Iodine Vapor/P100 (GMI)*	815641		●											●			2,4
Chlorine/Mercury Vapor (Mersorb)	815361			●									●				2
Chlorine/Mercury Vapor w/N95 Prefilter (Mersorb)	815361 w/815394 or 816357			●									●			●	2,5
Chlorine/Mercury Vapor w/R95 Prefilter (Mersorb)	815361 w/815397			●									●		●		2,5
Chlorine/Mercury Vapor/P100 (Mersorb)	815368			●									●	●			2,4
Low-Profile P100	815369 Pack of 2 10123079 Pack of 100													●			1,4
P100 with Splash Guard	10146939 Pack of 2													●			1,4
N95 Snap-On Prefilter and Cover	815394 Pack of 10 816357 Box of 50 815392 Reusable Snap-On Cover, 2 in a Package																
R95 Snap-On Prefilter and Cover	815397 Box of 20 815401 Reusable Snap-On Cover, 2 in a Package																

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.

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

⚠WARNING

An appropriate cartridge change-out schedule must be developed by a qualified professional, unless the cartridge/canister utilizes an end-of-service-life indicator. The change-out schedule must take into account all factors that may influence respiratory protection including specific work practices and other conditions unique to the worker's environment. If using against substances having poor warning properties, there is no secondary means of knowing when to replace the cartridges/canister. In such cases, take appropriate additional precautions to prevent overexposure, which may include a more conservative change-out schedule or using an air-supplied respirator or SCBA. Failure to follow this warning can result in serious personal injury or death. As a reference, below is a partial list of substances having poor warning properties:

- Acrolein
- Aniline
- Arsine
- Bromine
- Carbon monoxide
- Diisocyanates
- Dimethyl sulfate
- Hydrogen cyanide
- Hydrogen selenide
- Methanol
- Methyl bromide
- Methyl chloride
- Methylene chloride
- Nickel carbonyl
- Nitric acid
- Nitro compounds
  - Nitrogen oxides
  - Nitroglycerin
  - Nitromethane
- Phosgene
- Phosphine
- Phosphorus trichloride
- Stibine
- Sulfur chloride
- Urethane or other diisocyanate-containing paints
- Vinyl chloride

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.
5. Both a prefilter and cover must be used with the cartridge in order to obtain R95 or N95 particulate protection.

Advantage® 420 Half-Mask Respirator



- Facepiece design provides stability and soft feel
- Facepiece design is optimized to fit a wide variety of face shapes and sizes
- Easily switches between lock-down and drop-down mode
- Built-in moisture release chin cup hole, and extra-wide head and neck straps
- Designed for easy integration with other personal protective equipment such as safety glasses and welding shields
- Faceblank is latex free

	Small	Medium	Large	
ADVANTAGE 420 RESPIRATOR	10102182	10102183	10102184	Advantage 420 Assembly (includes facepiece, head cradle, elastic straps, buckle set, yoke with lever, two (2) inhalation valves, one (1) exhalation valve)

SPARE PARTS AND ACCESSORIES	10097807	Harness Assembly with Buckles (includes head cradle, elastic straps, and buckle set)
	10097883	Maintenance Valve Set (includes one (1) exhalation valve and two (2) inhalation valves)
	10097886	Advantage 420 Maintenance Kit (includes harness assembly with buckles, one (1) exhalation valve, and two (2) inhalation valves)
	10097810	Yoke with lever
	10097881	Lever, package of 5
	10097888	Inhalation valve, package of 10
	10097891	Exhalation valve, package of 10
	10097884	Buckle set, package of 5
	10097887	Storage poly bag
	468730	Vinyl storage bag with belt loops
	809999	Advantage Adapter for threaded Comfo cartridges, package of 2
	10009971	MSA Confidence Plus Germicidal Cleaner, 32 oz
	697383	Cleaning Towelettes (individually wrapped), package of 100
	697444	Bitrex Qualitative Fit-Test Kit
	10056424	Advantage Quantitative Fit Test Adapter
	10097899	Instruction Manual, CD format













MSA—**The Safety Company**

Our business is safety. We've been the world's leading manufacturer of high-quality safety products since 1914. MSA products may be simple to use and maintain, but they're also highly sophisticated devices and protective gear—the result of countless R&D hours, relentless testing and an unwavering commitment to quality that saves lives and protects millions of hard working men and women each and every day. Many of our most popular products integrate multiple combinations of electronics, mechanical systems and advanced materials to help ensure that users around the world remain protected in even the most hazardous of situations.

Our Mission

MSA's mission is to see to it that men and women may work in safety and that they, their families and their communities may live in health throughout the world.

MSA: WE KNOW WHAT'S AT STAKE.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

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