



ADVANTAGE[®] 400

Half-Mask Respirators



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Advantage Half Mask Series



Advantage 420

Advantage 410



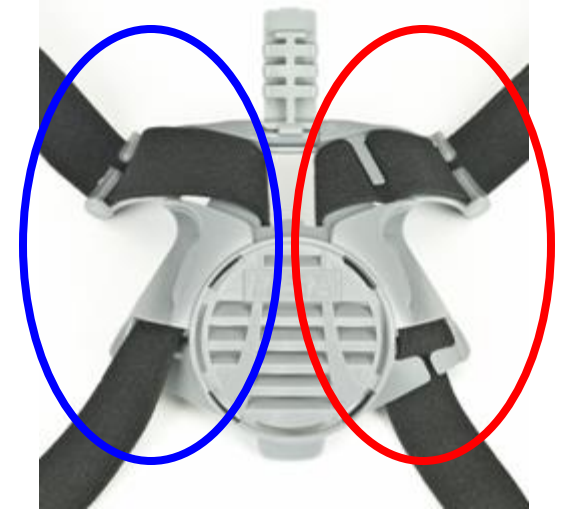
The Respirator That Has It All!

- Simplicity
- Comfort & Fit
- Safety
- Flexibility
- Cost-effectiveness



Simplicity

- Only 3 major components
- One-piece harness design
- Drop-down mode
- Lock-down mode
 - Simple adjustment



Comfort & Fit



- AnthroCurve II face seal design



- Moisture release in chin cup



- Extra wide head and neck straps (19 mm)

Comfort & Fit can't



- Hard hat friendly harness assembly
- Curved neck buckles



Safety

- UniBond over-molded facepiece design
- Textured inner face seal
- No loose or dangling straps
- Downward exhaled air flow



Flexibility

- Innovative yoke and harness
- Adjustable head cradle
- Low profile design integrates well with other PPE
- Approved for use with Bayonet (420) and Standard threaded cartridges (410)*

*The weight of a single filter shall not exceed 300 g when used with the Advantage 410



Cost-effectiveness

- Only 3 major components
- Disassembly in less than 30 seconds
- Made of high strength and durable LIM silicone
- Reduced cost of replacement parts and maintenance time



Features & Benefits



- Silicone material
 - Over molding structure
 - New “patent pending” harness
 - Lightest on market with combo cart.
 - 4-point yoke and extended cheek inserts
 - One-piece head harness and crown strap
- Durability
 - Rigid structure and comfort in use
 - Makes for easier donning
 - Provides comfort over entire shift
 - Offers much better stability on the user’s face
 - Eliminates pressure points on head when hard hat used

Features & Benefits can't



- Meets new NIOSH fit test panel for respirator sizing
 - Designed for use with other PPE
 - Drop-down Lock-down one-piece style cradle and harness
- Fits a much broader population of workers in different regions
 - Eye, face & head protection fit better
 - Allows user to remove respirator while wearing hard hat
 - Provides user the option of fixed sizing with no drop-down

Features & Benefits con't



- No loose or dangling straps
 - Indirect exhalation of expired air
 - Only 3 major parts in the entire respirator
 - Uses Advantage bayonet and EN 148 type cartridges
 - Approved for use with Comfo threaded cartridges (NIOSH version only)
- Provides greater visibility
 - Reduces fogging on faceshield lens
 - Makes maintenance much easier
 - Can reduce inventory for end-users and distributors
 - Permits use of bayonet and threaded cartridges

The Advantage 400 Has It All!

- Simplicity
- Comfort
- Safety
- Flexibility
- Cost-effectiveness



Donning the Advantage 400



Note: Filters presented here might not be suitable or approved in all areas

Attach Cartridges



Note: Filters presented here might not be suitable or approved in all areas

Open Lever



Note: Filters presented here might not be suitable or approved in all areas

Place Cradle on Head



Note: Filters presented here might not be suitable or approved in all areas

Place Respirator on Face



Note: Filters presented here might not be suitable or approved in all areas

Close Lever



Note: Filters presented here might not be suitable or approved in all areas

Bring neck straps behind head



Note: Filters presented here might not be suitable or approved in all areas

Close neck buckles



Note: Filters presented here might not be suitable or approved in all areas

Pull on Both straps evenly for a comfortable fit



Note: Filters presented here might not be suitable or approved in all areas

Perform Fit Check



Note: Filters presented here might not be suitable or approved in all areas

Ordering Information



P/N	Description	Boxes per carton	Carton size in cm	Carton weight in kg	List Price EUR
10102273	Advantage 420 Small	12	54 x 31,1 x 18,7 cm (21.25"x12.25"x7.375")	Approx. 4,1 kg (9 lbs)	27,00
10102274	Advantage 420 Medium				25,00
10102275	Advantage 420 Large				27,00
10102276	Advantage 410 Small				32,00
10110277	Advantage 410 Medium				30,00
10102278	Advantage 410 Large				32,00



Markets & Applications

Extensive durability testing to help ensure a long life in many different work environments and applications as:

- **High heat environments**
 - steel mills, foundries, hot-houses, coke ovens, bagging operations
- **Extreme cold conditions**
 - drilling rigs, construction, rail road repair, Northern climates
- **Welding applications**
 - hex chrome, carbon steel, brazing, soldering, metal pouring
- **Painting**
 - bridge repair, construction painting, coatings, chemical overlays
- **Rough handling**
 - transportation, construction sites, shipping, moving vehicles
- **Petrochemical exposure**
 - chemical manufacturing, dipping / coating operations, sampling



6-Page Leaflet



New

Advantage 400 Series
[On Duty now for the Future]

MSA
The Safety Company

A man and a woman are shown wearing the MSA Advantage 400 Series respirators. The man is wearing a white protective suit and a respirator with a large circular filter. The woman is wearing a white shirt and a respirator with a smaller circular filter. They are both looking directly at the camera. The background is a green gradient with swirling patterns.

6-Page Leaflet

Advantage 400 Half Mask

[Comfort meets Innovation]

The innovative Advantage 400, a new member of the Advantage family of full face and half masks, convinces through exceptional comfort and sophisticated design.

An important characteristic of the Advantage 400 is user-friendliness. The innovative patent-pending single loop head harness outshines the competition. It grants the user an intuitional operation and offers high comfort and flexibility. The unique one-piece over-molded silicone nose cup is soft and pleasant to wear and extremely robust.

Single & Twin Port

The Advantage 400 is available with single thread (Advantage 410) and bayonet twin (Advantage 420) connection. For both versions MSA offers a wide range of different filters, suitable for all applications.



Easy Donning

The Advantage 400 sets standards never seen before in the area of ease of use. The user can quickly adjust the mask according to his individual requirements.



Place cradle on head and put face piece in place.

Pull down front straps until mask has snug fit and lock adjustment by closing lever.

Close neck buckles and pull on both straps evenly for comfortable and correct fit.

2 MSA

Convincing through...

Simplicity

Once the harness is pre-adjusted, each donning only requires three steps.

3 Easy Steps and You are protected

- 1 Place cradle on head
- 2 Grab face piece and slide it to the right position
- 3 Connect neck buckles



Comfort

The sophisticated design offers unparalleled comfort.

Pleasant to wear

- No pressure points
- Multi-ethnic face seal
- Reduced slippage in hot humid conditions



Safety

The patent pending single loop harness and one-piece silicone nose cup provide maximum safety.

Perfect Fit

- Excellent stability on the face
- Great visibility
- No multiple leak points



Flexibility

The Advantage 400 responds completely to individual user preferences and requirements.

Free Choice

- Single or twin filter connection
- Small, medium or large nose cup
- Drop-down or non-drop-down mode



Cost Effectiveness

Due to the well-engineered design, cleaning and maintenance efforts are significantly reduced.

Only 3 Major Components

- Single loop head harness
- One-piece nose cup
- 4-point yoke



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The Head Harness: Innovative

MSA patent pending

The unique combination of innovative features makes the head harness the absolute highlight of the Advantage 400.



One-Piece Harness
Eliminates pressure points on head and provides greater visibility as there are no loose straps



Neck Buckle
Enables intuitive handling due to "snap" that indicates locking



Adjustable Cradle
Provides perfect adaptation to different head sizes



Wide Straps
Minimize twisting and cutting in the nape of the neck

The Nose Cup: Comfortable

MSA patent pending

The one-piece nose cup is made of soft over-molded silicone and rigid plastic. This results in unparalleled wearer comfort.



Low Profile Design
Integrates extremely well with other PPE (e.g. head, eye and hearing protection)



Over-Molded Silicone & Plastic
Offers extraordinary stability on the user's face



Multi-Ethnic Face Seal
Fits a broad population of users in different regions



Downward Facing Exhalation Valve
Avoids projection of exhaled humid air and reduces fogging on face shield

The 4-Point Yoke: Well-Engineered

MSA patent pending

The sophisticated 4-point yoke provides high flexibility and guides the harness straps to a perfect fit.



Innovative Lever
Enables the quick and easy switch between lock-down and drop-down applications



Lock-Down
Permits setting the harness to the proper fit by closing the lever (mask can then be reused without further adjustments)



Drop-Down
Allows removing the mask and carrying it safely along the chest while wearing other PPE



Non-Drop-Down
Provides the option of fitting the harness straps according to individual requirements

Advantage 400 at a Glance

	Features	Benefits
Simplicity	Unique harness assembly	Makes for easier donning and doffing
	Drop-down mode	Allows the user to remove respirator and carry it safely along the chest while wearing head protection
	Lock-down mode	Provides the user with the option of fixed sizing (mask can be reused without further adjustments)
	Innovative lever	Enables a quick and easy switch between lock-down and drop-down mode
Comfort	Flat single loop harness	Eliminates pressure points on head when head protection is used
	Multi-ethnic face seal	Adapts to a broad range of faces globally
	Wide straps	Minimizes twisting and cutting in the nape
Safety	Chin cup with built-in drain hole	Reduces slippage of face piece in hot humid conditions
	One-piece nose cup made of soft over-molded silicone and rigid plastic	Offers excellent stability on the user's face and eliminates multiple leak points
	Textured inner seal of face piece	Maintains good face piece fit
	No loose or dangling straps	Provides greater visibility
Flexibility	Downwards pointing exhalation valve	Avoids projection of exhaled humid air and reduces fogging on face shield lens
	Low profile design	Integrates extremely well with other PPE
	Adjustable cradle and 3 face piece sizes	Provides perfect adaptation to different head sizes and facial contours
	Drop-down and non-drop-down option	Allows customization of the mask
Cost Effectiveness	Single [410] and twin [420] filter variant	Offers the possibility of choosing a model according to individual preferences
	Only 3 major components	Makes cleaning and maintenance much easier
	High quality silicone	Offers great durability
	Uses existing MSA filters	Minimizes inventory
	Two versions – one design (twin and single connection)	Reduces test and training costs

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Technical Specifications

Materials	
Nose cup	Liquid silicone rubber and nylon
Yoke	Polyoxymethylene (POM)
Head harness	Polyester (PE) and Lycra
Inhalation valve	Neoprene
Exhalation valve	Liquid silicone rubber
Neck buckles	Polypropylene (PP)

Approvals	
EN 140, NIOSH, GOST, AS/NZ	

Weight without filters		
Size	Advantage 410	Advantage 420
Small	171 g	148 g
Medium	174 g	152 g
Large	179 g	157 g

Weight with filters (Advantage 420)						
Size	Advantage P3	Advantage ABEK P3	TabTec A1	TabTec ABEK	FLEXfilter	TabTec ABEK & FLEXfilter
Small	194 g	414 g	268 g	368 g	178 g	398 g
Medium	198 g	416 g	272 g	372 g	182 g	402 g
Large	203 g	423 g	277 g	377 g	187 g	407 g

Ordering Information

Advantage 410 (with single thread EN 140-1 connection)	
10102276	Advantage 410, small
10102277	Advantage 410, medium
10102278	Advantage 410, large

Advantage 420 (with twin bayonet MSA connection)	
10102273	Advantage 420, small
10102274	Advantage 420, medium
10102275	Advantage 420, large

Single thread filters [EN 143, EN 14387]	
10094376	Particle filter P3 R PlexTex [pack of 10]
D1041000	Gas filter 67 AB
D1070000	Combined filter 69 AB/St

Twin bayonet filters [EN 143, EN 14387]	
430375	Advantage filter P3 R
430374	Advantage filter ABEK P3 R
10030510	TabTec A1 gas filter
10038476	TabTec ABEK gas filter
10027639	FLEXfilter P3 R

R = Reusable according to EN 143:2000/A1:2006

This is just an excerpt from our comprehensive filter range. For more filter versions please see leaflets 05-100.2 [for single thread filters] and 05-117.2 [for twin bayonet filters].

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Poster



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GB Half mask	GH Mior jódaka	BD Polymuskeet maska	KZ Жартыйлай бетперде
DE Halbmaske	IT Semimaschera	CZ Polomaska	RO Hsemî mască
NL Halvmaskie	NL Halvasaatsmasker	HU Féltárc	RU Полумаска
ES Mascarilla	NO Halvmaske	PL Polomaska	SK Polomaska
FI Puolinaamarit	PT Meia Máscara	RS Polumaska	UA Нанімаска
FR Demi-masque	SE Halvmask		

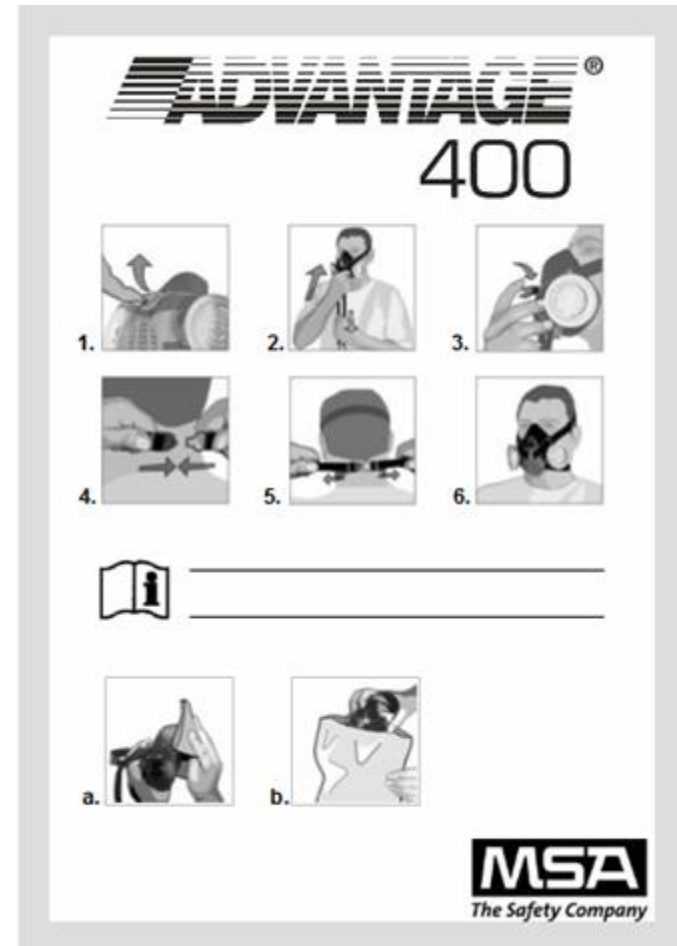


1000000



Poly Bag

- Included in each box
- Available as spare
- Storage
- Protection against dirt



Instructions CD



1



2



3



4



Instructions CD



1



2



3



4





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A respirator that has it all!

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