

**NORTH**

**RESPIRATORY**

**PROTECTION**



# **NORTH** Safety Products

North Safety Products is the most diversified manufacturer of Safety and Personal Protective Equipment (PPE) in the world, with fifteen complete product lines, manufactured in ISO 9000 certified plants and employing over 3,000 people worldwide.

North works closely with distributors and end users alike to provide innovative product design, quality manufacturing, solid marketing, training and support to our customers. Our goal is to enhance worker safety, improve productivity, and create confidence on the job and in the market place.

## **RESPIRATORY PROTECTION**

North Safety Products has been a global leader in respiratory protection for over 40 years, with a full line of products to meet a wide range of industrial applications.

Beginning with air-purifying, North's 7700 Series is the most comfortable and durable half mask on the market today, and the 7600 Series full facepiece sets the industry standard for comfort, performance and protection. For economy, the 5500 Series half mask and 5400 Series full facepiece are excellent low maintenance alternatives. Furthermore, all of North's air-purifying facepieces are compatible with North's full line of cartridges, filters and accessories.

Changing to supplied-air is quick and economical with the CF2000 Series interchangeable breathing tube that easily converts North air-purifying facepieces into supplied air respirators. North also offers a full line of pressure demand airline respirators, self-contained breathing apparatus and emergency escape respirators. Finally, North offers an array of training material, technical support and personal training to keep you informed and your workers safe.

**HEAD PROTECTION**



**EYE & FACE PROTECTION**



**HEARING PROTECTION**



**RESPIRATORY PROTECTION**



**WELDING PRODUCTS**



**FALL PROTECTION**



**DISASTER PREPAREDNESS**



**HAND PROTECTION**



**FIRST AID PRODUCTS**



**PROTECTIVE CLOTHING**



**PROTECTIVE FOOTWEAR**



**TRAFFIC SAFETY PRODUCTS**



**ELECTRICAL SAFETY PRODUCTS**



**SIGNS AND LOCKOUTS**



**CONSUMER PRODUCTS**



## **Affiliated Companies**



**NORTH**



# Respiratory Protection

## Research and Development



Computer-aided design integrates our expertise in engineering, ergonomics and manufacturing. New products are developed, manufactured and tested for performance and durability and evaluated by consumers for comfort, performance and fit.

## Manufacturing

North uses modern, computerized injection molding presses in the manufacture of its respiratory products, to meet exacting standards and ensure consistent quality and performance.

## Training



As a world-class manufacturer of Personal Protective Equipment, North offers a wide variety of comprehensive in-house and on-site training programs on all product lines.



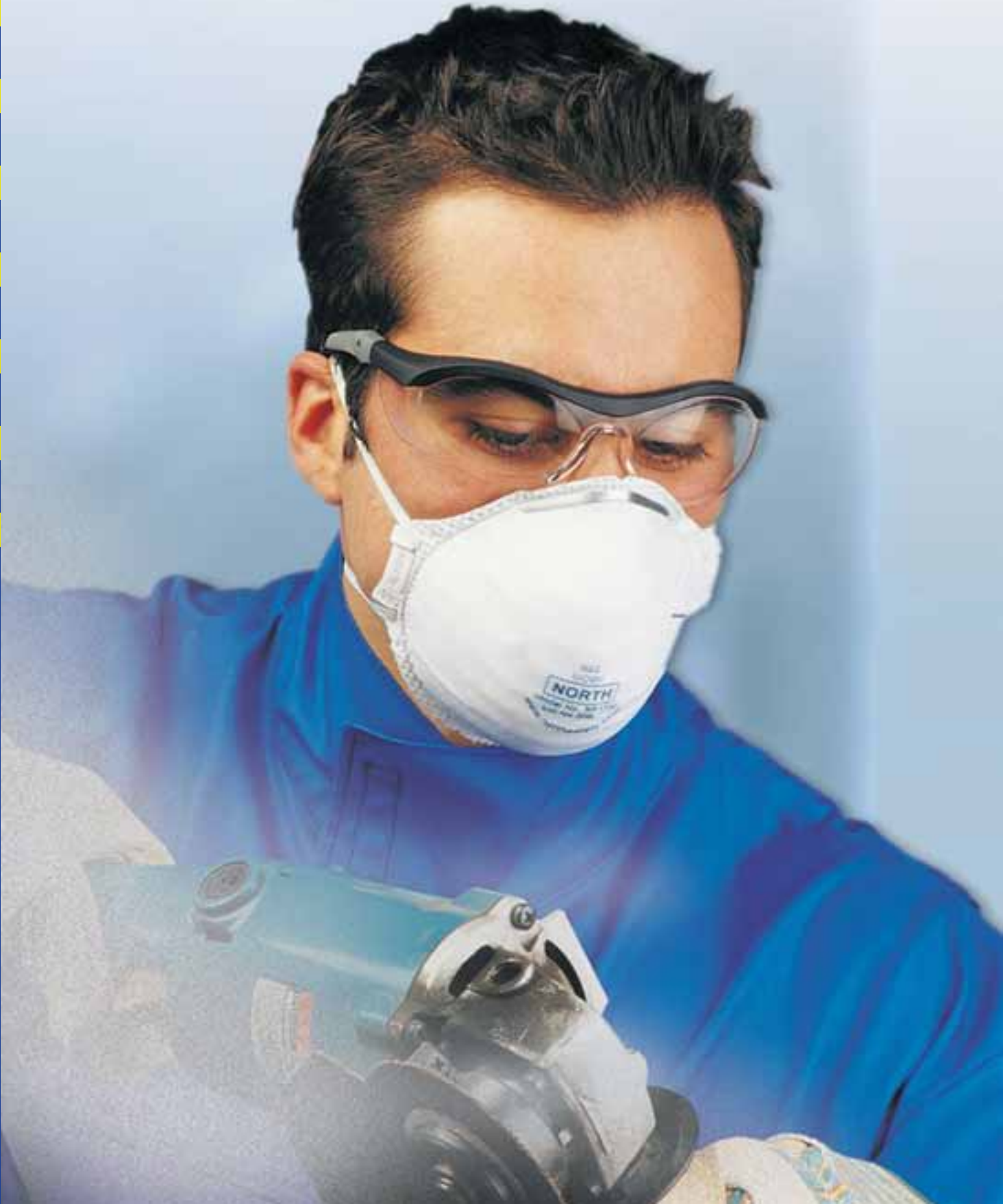
## Quality and Standards Testing

North's experienced work force tests its respiratory protection products in its own ISO 9001 facilities and institutes 100% testing on all critical product attributes. North's test equipment is calibrated to the National Institute of Standards and Technology (NIST). **Unless otherwise stated, all respirators in this catalog have been approved by the National Institute for Occupational Safety and Health (NIOSH).**

# DISPOSABLE PARTICULATE

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## RESPIRATORS



## COMFORT MASK



RP1500

Disposable Comfort Mask for protection against non-toxic dusts. Not NIOSH approved.

Part#	Description	Packaging
RP1500	Comfort Masks	50 per package

## N95 PARTICULATE RESPIRATORS

**95% MINIMUM  
FILTER EFFICIENCY**



6130N95

This provides protection from dust, mists and fumes at an economical price. The mask feature a foam nose pad and latex free straps. Use in duty environments that are free from oil.

Part#	Description	Packaging
6130N95	N95 Particulate Respirator	30 per package



7130N95

North has designed and engineered this respirator to provide exceptional comfort and worker protection. It features a soft cushioned nose seal for added comfort and a curved nose clip for improved fit. The headstraps are latex free. The 7130N95 provides protection from solids and particulate aerosols free of oil, and is ideal for dusty environments such as grinding, sanding and sweeping.

Part#	Description	Packaging
7130N95	N95 Particulate Respirator	20 per package



7140N95

This respirator has the same features as the 7130N95, with the added benefit of a built-in exhalation valve for cooler and easier breathing. The 7140N95 provides protection from solids and particulate aerosols free of oil.

Part#	Description	Packaging
7140N95	N95 Particulate Respirator with exhalation valve	10 per package

## P95 PARTICULATE RESPIRATOR

**95% MINIMUM  
FILTER EFFICIENCY**



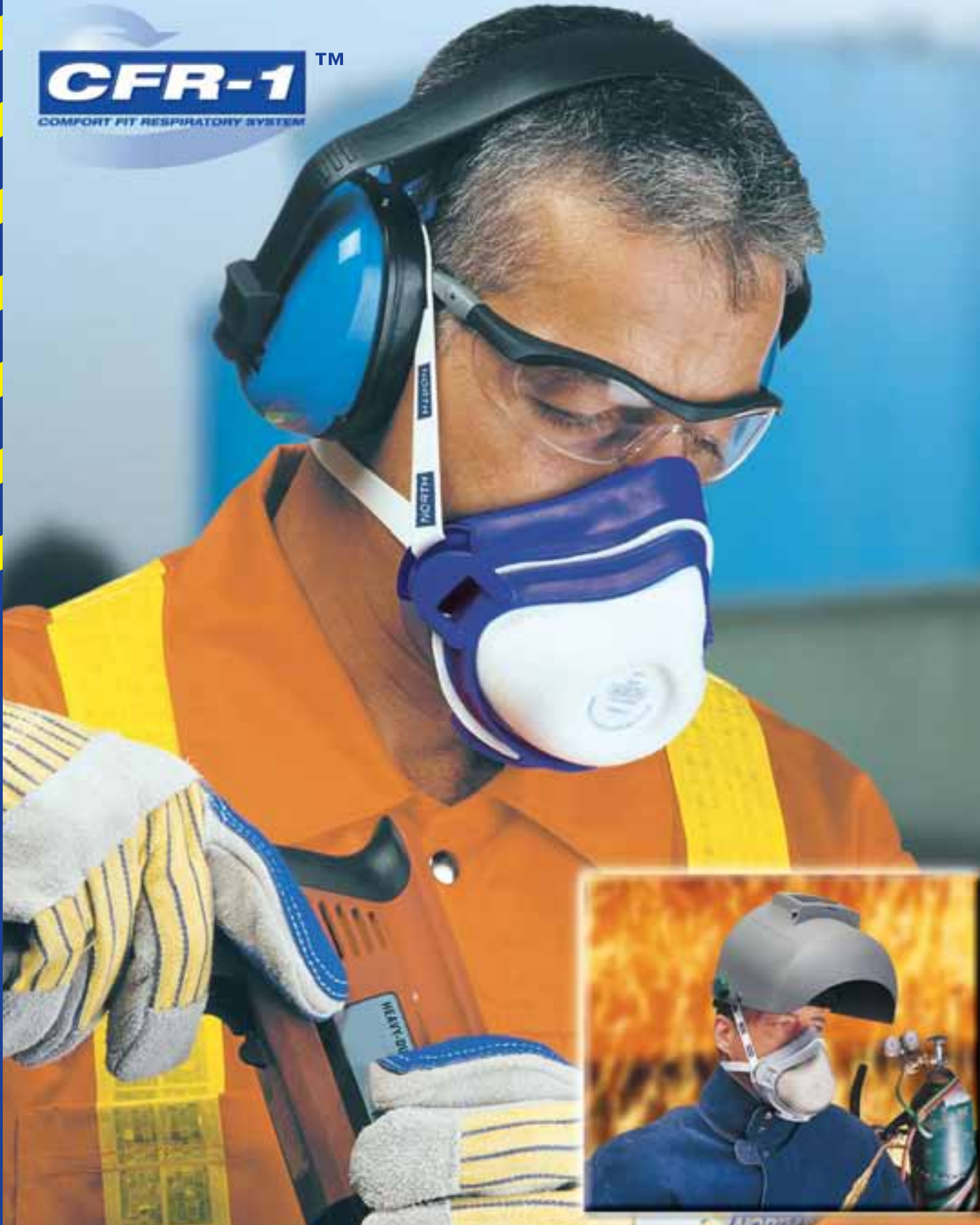
8140N95

Comfortable and durable, the 8140P95 features a foam-cushioned facepiece seal that conforms closely to the face for long lasting comfort and protection, latex free straps, and a built in-in exhalation valve for cooler and easier breathing. The 8140P95 provides protection from any particulates, and is ideal for machining and other dusty and oily operations.

Part#	Description	Packaging
8140P95	P95 Particulate Respirator with exhalation valve	10 per package

# REUSABLE PARTICULATE RESPIRATOR

**CFR-1**™  
COMFORT FIT RESPIRATORY SYSTEM



# CFR-1™ COMFORT FIT RESPIRATORY SYSTEM



4200M  
CFR-1 RESPIRATOR



4200MW  
CFR-1 RESPIRATOR

North's new CFR-1 reusable particulate respirators give workers the comfort and protection they deserve at a much better value than ordinary dust masks. Ordinary dust masks quickly get warm, moist and uncomfortable and are often replaced several times a day. The filter in the CFR-1 does not touch the face keeping it cool and dry, and one filter can provide all day protection. The facepiece is reusable, and replaceable filters will save money and reduce waste.

### features and benefits

- Soft thermoplastic elastomer seal provides maximum comfort to ensure greater worker acceptance.
- Exhalation valve removes air quicker for easier and cooler breathing.
- Inhalation valve keeps the filter drier and allows the user to perform a positive pressure seal check.
- Adjustable harness system will ensure a comfortable and secure fit.
- Parking mechanism provides a convenient place to put respirator when not in use.
- N95 and R95 filters available for a wide range of applications.
- Three sizes to comfortably fit most users.

The CFR-1 Welding Respirator comes with a stainless steel mesh cover to protect the user from heat, sparks and slag.

### Respirator

Part#	Description	Packaging
4200S	CFR-1 Respirator (Small)	1 per package
4200M	CFR-1 Respirator (Medium)	1 per package
4200L	CFR-1 Respirator (Large)	1 per package

### Welding Respirator

Part#	Description	Packaging
4200SW	CFR-1 Welding Respirator (Small)	1 per package
4200MW	CFR-1 Welding Respirator (Medium)	1 per package
4200LW	CFR-1 Welding Respirator (Large)	1 per package

### Replacement filters and accessories

Part#	Description	Packaging
42N95	N95 replacement filters for CFR-1 respirator	20 per package
42R95	R95 replacement filters for CFR-1 respirator, for use in oil environments	10 per package
77BAG	Carrybag for Half Mask	1 per package



42N95  
REPLACEMENT FILTERS



42P95  
REPLACEMENT FILTERS

# QUANTITATIVE FIT TEST KIT



4200/QNKT

The CFR-1 fit test kit contains one each of small, medium and large 4200 masks, probed to perform quantitative fit testing. 100 refresher wipe pads plus extra suction cups and tubes for fit testing are also included. The rugged storage case keeps contents secure and readily available when needed. The 4200/QNKT is used in conjunction with a PortaCount®\* fit tester with the N95 companion.

Part#	Description	Packaging
4200/QNKT	Quantitative fit test kit for CFR-1 respirator	1 per package

\* PortaCount® is a registered trademark of TSI Inc.

# SILICONE

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# HALF MASK

## AIR-PURIFYING RESPIRATOR

### 7700 SERIES SILICONE HALF MASK



770030L HALF MASK SHOWN  
WITH N75003 CARTRIDGES

The 7700 Series is the most comfortable and durable half mask available. Its soft non-allergenic silicone seal provides excellent protection, comfort and fit. The half mask cradle suspension system allows the facepiece to seal evenly on the face without creating pressure points. Its low profile gives workers a wide field of vision and does not interfere with protective eyewear. The low inhalation and exhalation resistance of the 7700 Series makes breathing easier to reduce worker fatigue.

#### features and benefits

- Silicone facepiece material conforms to facial features and doesn't harden with age. Silicone is easy to clean, extremely durable and resists distortion ensuring a better fit, time after time.
- Contoured sealing flange and cradle suspension system eliminates discomfort caused by pressure points on facial nerves. Design of nose area provides excellent comfort and fit.
- Minimal dead air space improves worker comfort by limiting re-breathing of exhaled air.
- Direct cartridge to facepiece seal minimizes replacement parts and simplifies maintenance.
- Three overlapping sizes will comfortably fit most users.
- North 7700 Series Half Masks are compatible with all North cartridges, filters and accessories.

Part#	Description	Packaging
770030S	7700 Series Half Mask (Small)	1 per package
770030M	7700 Series Half Mask (Medium)	1 per package
770030L	7700 Series Half Mask (Large)	1 per package

### CARRY BAG



77BAG FOR HALF MASK

This durable, belt-mounted carry bag can be used with any North Half Mask Respirator. Along with your North Half Mask Respirator, there is room for safety glasses, ear plugs, respirator wipes and other small items.

Part#	Description	Packaging
77BAG	Carrybag for Half Mask	1 per package

# **Low MAINTENANCE HALFMASK**



# AIR-PURIFYING RESPIRATOR

## 5500 SERIES LOW MAINTENANCE HALF MASK

The North 5500 Series incorporates the comfortable and efficient design of the popular 7700 Series half mask with the low cost and convenience of a disposable. All parts are replaceable, extending the useful life of the respirator.

### features and benefits

- Made of an extremely soft non-allergenic elastomer for comfort and fit. Contoured sealing flange eliminates discomfort caused by pressure points on facial nerves. Design of nose area provides excellent comfort and fit.
- Low dead air space improves worker comfort by limiting re-breathing of exhaled air.
- Direct cartridge to facepiece seal minimizes replacement parts and simplifies maintenance.
- Three overlapping sizes comfortably fit most users.
- North 5500 Series Half Masks are compatible with all North cartridges, filters and accessories.



550030M HALF MASK SHOWN  
WITH 7580P100 CARTRIDGES

Part#	Description	Packaging
550030S	5500 Series Half Mask (Small)	1 per package
550030M	5500 Series Half Mask (Medium)	1 per package
550030L	5500 Series Half Mask (Large)	1 per package
77BAG	Carrybag for Half Mask	1 per package

## RESPIRATOR CONVENIENCE PACKS



The 5500 Series is available in easy-to-order convenience packs. Convenience packs combine the most commonly used gas and vapor cartridges and/or particulate filters with the 5500 Series Half Mask, to form a complete respirator. See pages 16 and 17 for a description of gas and vapor cartridges and particulate filters.



MODEL 5501N95M

Part#	Description	Packaging
5501 S, M, L	(2) N75001 cartridges	1 per package
5501N95 S, M, L	(2) N75001 cartridges, (2) 7506N95 filters, (2) N750027 filter covers	1 per package
5501R95 S, M, L	(2) N75001 cartridges, (2) 7506R95 filters, (2) N750027 filter covers	1 per package
5581P100 S, M, L	(2) 7581P100 cartridges	1 per package
5580P100 S, M, L	(2) 7580P100 filters	1 per package
5503 S, M, L	(2) N75003 cartridges	1 per package
5583P100 S, M, L	(2) 7583P100 cartridges	1 per package
55SCP100 S, M, L	(2) 75SCP100 cartridges	1 per package

# SILICONE

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# FULL FACEPIECE

## AIR-PURIFYING RESPIRATOR

### 7600 SERIES SILICONE FULL FACEPIECE

The 7600 Series Full Facepiece respirators are designed to provide eye, face and respiratory protection while ensuring optimal comfort and performance. Its dual flange silicone seal gives this facepiece superior fitting characteristics. The hard-coated polycarbonate lens provides over 200° field of vision and protects the wearer's eyes and face against irritating gases, vapors and flying particles. The lens also provides excellent optics, is scratch resistant and meets ANSI standards for impact and penetration resistance. The 7600 Series Full Facepiece sets the standard for full facepiece protection.



760008A FULL FACEPIECE SHOWN WITH 7584P100 CARTRIDGES

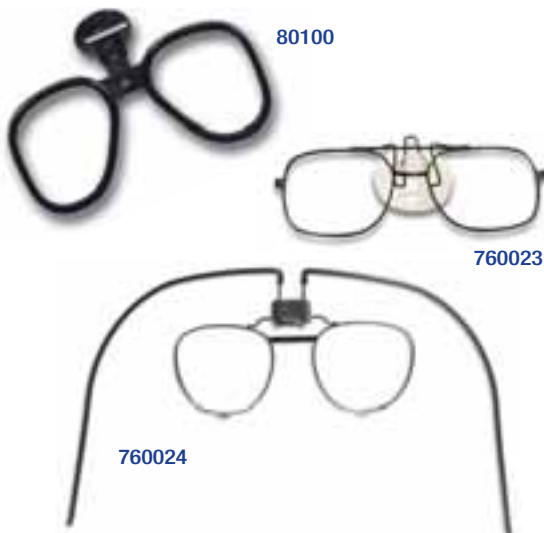
#### features and benefits

- Silicone facepiece material conforms to facial features and doesn't harden with age. Silicone is easy to clean, extremely durable and resists distortion, ensuring a better fit time after time.
- Oral nasal cup reduces fogging and lessens dead air space to improve worker comfort by limiting re-breathing of exhaled air.
- Speaking diaphragm makes communication easy.
- Five-strap harness provides an effective and comfortable facepiece to face seal.
- Chin cup helps to position the facepiece properly.
- Neck strap allows wearer to park respirator when not in use.
- Two overlapping sizes, small and medium/large, will comfortably fit most users.
- North 7600 Series Full Facepieces are compatible with all North cartridges, filters and accessories.

Part#	Description	Packaging
760008A	7600 Series Full Facepiece (Medium / Large)	1 per package
760008AS	7600 Series Full Facepiece (Small)	1 per package

SEE PAGE 15 FOR WELDING FACEPIECES AND ACCESSORIES

### ACCESSORIES



#### Accessories for the 7600 Series Full Facepiece

Part#	Description	Packaging
80100	Eyeglass frame. Plastic, no lenses	1 per package
760023	Eyeglass frame. Metal, no lenses	1 per package
760024	Eyeglass frame. Metal, no lenses	1 per package
80836A	Peel-Away Windows (3 Windows per assembly)	5 per package
80944	Anti-fog Wipes	10 per package
76BAG	Carrybag for Full Facepiece	1 per package

LOW MAINTENANCE

**FULL**

**FACEPIECE**



# AIR-PURIFYING RESPIRATOR

## 5400 SERIES LOW MAINTENANCE FULL FACEPIECE

The 5400 Series provides the comfort and protection you would expect from North, at an unbeatable price. No other full facepiece in its price range offers such quality, engineering and attention to detail. Weighing only 14 ounces, the 5400's lightweight design offers a level of comfort that ensures greater worker acceptance. Plus, its facepiece seal is made from a soft, pliable elastomer material with high chemical resistance to assure excellent comfort, fit and performance.



54001 FULL FACEPIECE SHOWN  
WITH 7581P100 CARTRIDGES

### features and benefits

- Each facepiece comes with three peel-away windows, six respirator wipes and a storage bag.
- Oral nasal cup reduces fogging and lessens dead air space to improve worker comfort by limiting re-breathing of exhaled air.
- Chin cup helps to position the facepiece properly.
- Hard-coated polycarbonate lens affords an over 200° field of vision, provides excellent optics, is scratch resistant and meets ANSI standards for impact and penetration resistance.
- Two overlapping sizes, small and medium/large, will comfortably fit most users.
- With many of the same components of the 7600 Series facepiece, replacement part inventory will be reduced.
- North 5400 Series Full Facepieces are compatible with all North cartridges, filters and accessories.

Part#	Description	Packaging
54001	5400 Series Full Facepiece (Medium/Large)	1 per package
54001S	5400 Series Full Facepiece (Small)	1 per package

SEE PAGE 15 FOR WELDING FACEPIECES AND ACCESSORIES

## ACCESSORIES



76BAG FOR FULL FACEPIECE

### Accessories for 5400 Series Full Facepiece

Part#	Description	Packaging
80100	Eyeglass frame. Plastic, no lenses	1 per package
760023	Eyeglass frame. Metal, no lenses	1 per package
80836A	Peel-Away Windows (3 Windows per assembly)	5 per package
80944	Anti-fog Wipes	10 per package
76BAG	Carrybag for Full Facepiece	1 per package

# WELDING RESPIRATORS AND ACCESSORIES



## FULL FACEPIECE WELDING RESPIRATORS



760008AW FULL FACEPIECE  
SHOWN WITH 7580P100 FILTERS



54001W FULL FACEPIECE  
SHOWN WITH 7580P100 FILTERS

The North Full Facepiece Welding Respirators have a welding shield constructed of a fire resistant thermoplastic material, that can be lifted upward on a locking hinge for a wide-angle view of the work area. It is available as a complete respirator or as an attachment, to convert your existing North 7600 Series or 5400 Series Full Facepiece.

### 7600 Series Full Facepiece

Part#	Description	Packaging
<b>Complete Respirator</b>		
760008AW	7600 Series Full Facepiece with Welding Attachment (Medium / Large)	1 per package
760008ASW	7600 Series Full Facepiece with Welding Attachment (Small)	1 per package
<b>Attachment</b>		
8404	Welding Attachment Assembly for 7600 Series Full Facepiece	1 per package

### 5400 Series Full Facepiece

Part#	Description	Packaging
<b>Complete Respirator</b>		
54001W	5400 Series Full Facepiece with Welding Attachment (Medium / Large)	1 per package
54001SW	5400 Series Full Facepiece with Welding Attachment (Small)	1 per package
<b>Attachment</b>		
8405	Welding Attachment Assembly for 5400 Series Full Facepiece	1 per package

## BP1002 BACKPACK ADAPTER



BP1002 SHOWN WITH 7700 SERIES  
HALF MASK AND 7581P100 CARTRIDGES

The backpack adapter allows users to locate cartridges and filters out of the work zone, by placing them on the user's back. The BP1002 is easily adaptable to all North Full Facepiece and Half Mask air-purifying respirators, simply by attaching it to the facepiece cartridge connectors. It is ideal for tight or highly heated work places such as those encountered in welding operations. Think of it as an extension cord for your cartridges.

Part#	Description	Packaging
BP1002	Backpack Adapter*	1 per package

NOTE: Facepiece and Cartridges sold separately

## 7190N99 Low MAINTENANCE RESPIRATOR



7190N99  
PARTICULATE RESPIRATOR

For solids, such as welding fumes and non-oil particulates (99% minimum filter efficiency). Fits easily under welding hoods. Replacement filters available.

Part#	Description	Packaging
7190N99	N99 Particulate Respirator	1 per package
719009N99	Replacement Filters for 7190N99	2 per package

# GAS & VAPOR

## CARTRIDGES

North offers an extensive line of gas and vapor cartridges and particulate filters to satisfy numerous industrial applications. All North cartridges and filters are approved with all North air-purifying half masks and full facepiece respirators. One line of cartridges and filters will simplify your inventory.

Air-Purifying Respirators with cartridges provide respiratory protection against gases and vapors by using sorbents to purify the inhaled air. Cartridges without filters do not remove dusts, fibers, and other particles.

End of service life for gas and vapor cartridges is determined by either:

- \* an end-of-service life indicator (ESLI) certified by NIOSH, or
- \* the employer must implement a change schedule to ensure cartridges are changed before the end of their service life.

esLife: North has developed the esLife software program to help users develop cartridge change schedules for North gas and vapor cartridges. esLife is part of North's on-line **ezGuide™** designed to aid users in determining the appropriate respiratory and hand protection product for their specific applications. See page 33 for more information.

### Gas & Vapor Cartridges and Combination Gas and Vapor Cartridges with P100 Particulate Filters



Part#	Color Code	Description
75SC	Olive	Defender™ Multi-Purpose Cartridge for Organic Vapors, Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Sulfide (Escape), Hydrogen Fluoride, Chlorine Dioxide, Ammonia, Methylamine and Formaldehyde
75SCP100	Olive/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N75001	Black	Organic Vapor Cartridge
7581P100	Black/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N75002	White	Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Fluoride, Chlorine Dioxide, Formaldehyde Cartridge
7582P100	White/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N75003	Yellow	Organic Vapor, Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Fluoride, Chlorine Dioxide Cartridge
7583P100	Yellow/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N75004	Green	Ammonia, Methylamine Cartridge
7584P100	Green/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N750052	Olive	Mercury Vapor, Chlorine Cartridge with End-of Service-Life Indicator (ESLI for mercury vapor)
75852P100	Olive/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)

# PARTICULATE FILTERS & ACCESSORIES

Air Purifying Respirators with filters provide respiratory protection against aerosols by removing dusts, mists, fumes, fibers, and other particles. Filters do not remove gases or vapors, or correct for oxygen deficiency.

End of service life for filters is normally determined by the increase in breathing resistance sensed by the user. When it becomes difficult to breathe comfortably, the filters should be replaced. R95 filters are limited to a maximum of 8 hours use, when used in atmospheres containing oil.

## Particulate Filters

Part#	Description
7580P100	P100 Particulate Filter – (99.97% Minimum Filter Efficiency)
75FFP100	P100 Particulate Filter (Pancake) – (99.97% Minimum Filter Efficiency)
75FFP100NL	P100 Particulate Filter (Pancake) with nuisance level odor relieve for Organic Vapors, Acid Gases and Ozone. – (99.97% Minimum Filter Efficiency)
7506N95	N95 Non-Oil Particulate Filter (95% Minimum Filter Efficiency)
7506N99	N99 Non-Oil Particulate Filter (99% Minimum Filter Efficiency)
7506R95	R95 Particulate Filter (95% Minimum Filter Efficiency)
7535FFP100	P100 Particulate filter assembly (99.97% Minimum Filter Efficiency) Includes 5 pr 75FFP100 Filters and 1 pr N750035 Adapter.
7531N95	N95 Non-Oil Particulate Filter Assembly (95% Minimum Filter Efficiency) Includes 7506N95 Filter, N750027 Seal Check/Filter Cover and N750015 Filter Holder
7531N99	N99 Non-Oil Particulate Filter Assembly (99% Minimum Filter Efficiency) Includes 7506N99 Filter, N750027 Seal Check/Filter Cover and N750015 Filter Holder
7531R95	R95 Particulate Filter Assembly (95% Minimum Filter Efficiency) Includes 7506R95 Filter, N750027 Seal Check/Filter Cover and N750015 Filter Holder

## Accessories for Cartridges and Filters

Part#	Description
N750015	Filter Holder for 7506N95, 7506N99 and 7506R95 filters. Requires N750027 Seal Check/Filter Cover.
N750027	Seal Check/Filter Cover for 7506N95, 7506N99 and 7506R95 filters. Attaches to Gas and Vapor cartridges. For filter use only, use N750015 Filter Holder.
N750029	Shower Cap for 7580P100 Filter. Protects filter during abatement using water or during decontamination.
N750035	Adapter for assembly of a 75FFP100 Pancake Filter to a gas and vapor cartridge (Except for Defender Multi-Purpose Cartridge)

# AIR-PURIFYING ACCESSORIES



## EMERGENCY ESCAPE MOUTHPIECE RESPIRATOR



The 7902 emergency escape mouthpiece respirator is approved for protection during escape only from atmospheres containing Chlorine, Hydrogen Chloride, Hydrogen Sulfide, Chlorine Dioxide and Sulfur Dioxide. The 7904 is approved for respiratory protection during escape only from atmospheres containing Ammonia.

Part#	Description	Packaging
7902	Emergency Escape Mouthpiece Respirator	1 per package
7904	Emergency Escape Mouthpiece Respirator	1 per package
79BAG	Carrybag for Mouthpiece Respirator	1 per package

## QUALITATIVE FIT TEST KITS



A choice of two portable fit test kits are available for testing employees that wear air-purifying respirators. Used properly, these kits will keep you in compliance with OSHA regulations for qualitative fit testing. The irritant smoke qualitative fit test kit includes an air-purifying training video.

Part#	Description	Packaging
770039	Bitrex® Qualitative Fit Test Kit	1 per package
770040	Irritant Smoke Qualitative Fit Test Kit	1 per package

## QUANTITATIVE FIT TEST ADAPTERS



Part#	Description	Packaging
770021	Fit Test Adapter for 5400, 5500, 7600, 7700, 7800 Series respirators.	1 per package
770023	Converter (used with the 770021) to fit test 80004 and 80004S Pressure Demand Airline and SCBA Facepieces	1 per package

## REFRESHER WIPE PADS



Refresher wipe pads provide a quick, easy method of removing perspiration and body oils from the respirator facepiece between scheduled cleanings. These wipe pads make respirator usage more acceptable to the wearer by improving comfort.

Part#	Description	Packaging
7003	Refresher Wipe Pads	100 pads individually wrapped per pkg
7003A	Refresher Wipe Pads (alcohol free)	100 pads individually wrapped per pkg

## CLEANER / SANITIZER POWDER



The 80992 germicidal solution is an EPA (Environmental Protection Agency) registered product. You can use it for routine cleaning and disinfecting of your respirator facepiece.

Part#	Description	Packaging
80992	Cleaner/Sanitizer Powder	6 per package

# AIRLINE



# RESPIRATORS

## CF2000 SERIES CONTINUOUS FLOW AIRLINE RESPIRATOR\*



CF2007 SHOWN WITH  
76008A FACEPIECE

The CF2007 Interchangeable Breathing Tube easily converts an air-purifying respirator into a continuous flow respirator. It is easily adaptable to the North 5500, 7700, 5400, or 7600 Series air-purifying facepieces, simply by removing the cartridges and attaching the interchangeable breathing tube to the facepiece cartridge connectors. No modifications, tools or extra components are needed. Using common facepieces for air-purifying and supplied air applications will reduce inventory and maintenance costs. It will also simplify your respiratory training and compliance with OSHA requirements for annual fit testing.

Designed to rest on the user's back, out of the work zone and worker's way, the CF2000 Series breathing tube allows workers to function for long periods of time in toxic environments that are not Immediately Dangerous to Life or Health (IDLH) by supplying a continuous flow of breathing air. North quick-connect couplers and air supply hoses must be ordered separately.

### features and benefits

- Utilizes North halfmask and full facepieces, giving the user the advantages of these industry-leading products.
- Its two-piece hose is engineered to be soft and flexible where it attaches to the facepiece, reducing strain on the face seal, while providing rugged protection against kinking and shut-off when exposed to the work area.
- Its durable, ergonomically designed control valve monitors air flow as required by the user.
- Its wide adjustable belt will not "cut" into worker's side when dragging an air supply hose.

Part#	Description	Packaging
CF2007	Includes interchangeable breathing tube, adjustable airflow valve and waist belt	1 per package

NOTE: Facepiece, quick connectors and air supply hoses sold separately

## 7800 SERIES COMBINATION CONTINUOUS FLOW AND AIR-PURIFYING RESPIRATOR\*



78005 SHOWN  
WITH 7581P100 FILTERS

The 7800 Series is comprised of a continuous flow airline respirator approved for use with a variety of filters and/or cartridges including 7580P100 and 7581P100 cartridges. Two models are available with either belt mounted control valve or a fixed flow fitting.

Part#	Description	Packaging
78005 (Medium/Large) or 78005S (Small)	Full Facepiece Assembly with Breathing Tube and Fixed Flow Fitting	1 per package
78006 (Medium/Large) or 78006S (Small)	Full Facepiece Assembly with Breathing Tube and Adjustable Flow Control Valve	1 per package

NOTE: Cartridges/filters, quick connectors and air supply hoses sold separately

SEE PAGE 26 AND 27 FOR APPROPRIATE HOSES AND QUICK CONNECT COUPLERS.

# AIRLINE RESPIRATOR



## 85300 SERIES CONTINUOUS FLOW AIRLINE HOOD RESPIRATOR\*

The 85300 Series assures the wearer superior comfort, clear vision and excellent mobility. It offers excellent protection against airborne contaminants in a variety of applications including spray painting, abatement, pharmaceutical manufacturing and chemical handling. Replacement hoods are available in Tyvek®\*\* fabric and a Saranex®\*\*\* coated Tyvek in regular and extended bib. Replacement hoods, peel-away cover lenses and North quick-connect couplers and air supply hoses must be ordered separately.



85301T

### features and benefits

- The headgear ratchet assembly easily adjusts for personal comfort and fit.
- Airline hoods are lightweight, quiet and easily fit over facial hair and eye glasses for greater comfort and better worker acceptance.
- The breathing tube is non-kinking to reduce the chance of collapse or air restriction.
- Non-fogging lens offers a wide field of view and a clear view of the work zone.
- Disposable hoods and the peel away cover lens will reduce cleaning and maintenance costs.

**Airline hood assembly including hood, ratchet suspension, breathing tube and waist belt.**

Part#	Description	Packaging
85301T	With Tyvek® hood	1 per package
85301TB	With Tyvek® hood, bibbed	1 per package
85301S	With Saranex coated hood	1 per package
85301SB	With Saranex coated hood, bibbed	1 per package

### Replacement hoods

Part#	Description	Packaging
85301TA	For 85301T, Tyvek	10 per package
85301TBA	For 85301TB Tyvek, bibbed	10 per package
85301SA	For 85301S Saranex coated Tyvek	10 per package
85301SBA	For 85301SB Saranex coated Tyvek, bibbed	10 per package

NOTE: Quick connectors and air supply hoses sold separately

## VORTEX TUBE FOR 85300 SERIES HOOD RESPIRATOR

The vortex tube provides greater comfort to the worker by cooling or warming the breathing air. It is color coded and simple to use. Air temperature can be adjusted to warm or cool the air by plus or minus 30°F. The vortex tube comes pre-assembled with Hansen (HV), Schrader (SV) or Snap-Tite (STV) couplers. For use with 85300 Hoods for either heating or cooling.



88600HV

Part#	Description	Packaging
88600 HV, SV, STV	Vortex tube with Hansen (HV), Schrader (SV) or Snap-Tite (STV) Couplers for 3/8" hose	1 per package
88800 HV, SV, STV	Vortex tube with Hansen (HV), Schrader (SV) or Snap-Tite (STV) Couplers for 1/2" hose	1 per package

**SEE PAGE 26 AND 27 FOR APPROPRIATE HOSES AND QUICK CONNECT COUPLERS.**

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 \*\* SARANEX® is a registered trademarks of Don Chemical Company.

# **PRESSURE** **DEMAND** AIRLINE RESPIRATORS



## 85400A AND 85500A SERIES PRESSURE DEMAND AIRLINE RESPIRATORS\*



The 85400A and 85500A Series are full facepiece pressure demand supplied air respirators. Both Series feature the popular North silicone full facepiece for comfort and fit. The manifold assembly features two inlet ports, allowing the worker to connect to a second air source before disconnecting from the first.

The 85400A is designed for use in atmospheres that are not immediately dangerous to life and health (non IDLH). The 85500A Series is equipped with low profile emergency escape air cylinder(s), making it ideal for escape in tight spaces. Cylinders are available for either 5-minute or 10-minute configurations, and may be used in IDLH atmospheres.

### features and benefits

- Unique speaking diaphragm/ exhalation valve assembly offers clear communication.
- First breath demand valve with purge button prevents wearer from operating in a demand mode and makes it easier to put on the facepiece.
- May be used without emergency escape cylinder, or with 5-minute or 10-minute cylinder configurations for versatility on the job.

Part#	Description	Packaging
85401 (Medium/Large) or 85401S (Small)	PDAR with standard harness	1 per package
85505 (Medium/Large) or 85505S (Small)	PDAR with ONE 5 Minute Egress Air cylinder and standard harness	1 per package
85510 (Medium/Large) or 85510S (Small)	PDAR with TWO 5 Minute Egress Air cylinders and standard harness	1 per package
85525	5 Minute Emergency Escape Cylinder for 85500 Series	1 per package

NOTE: Quick connectors and air supply hoses sold separately

## 85700 SERIES COMBINATION PDAR AND AIR-PURIFYING RESPIRATOR\*



The 85700 Series is a combination of a Type C pressure demand supplied-air respirator and an air-purifying particulate filter respirator specifically designed for use in atmospheres containing particulate matter where an airline is used, but where escape can be accomplished using an air-purifying respirator. Approved with 7580P100 cartridges only.

Part#	Description	Packaging
85785	Full facepiece with cartridge connectors (Medium/Large)	1 per package
85785S	Full facepiece with cartridge connectors (Small)	1 per package

NOTE: Filters, quick connectors and air supply hoses sold separately

85785 FULL FACEPIECE SHOWN WITH 7580P100 CARTRIDGES

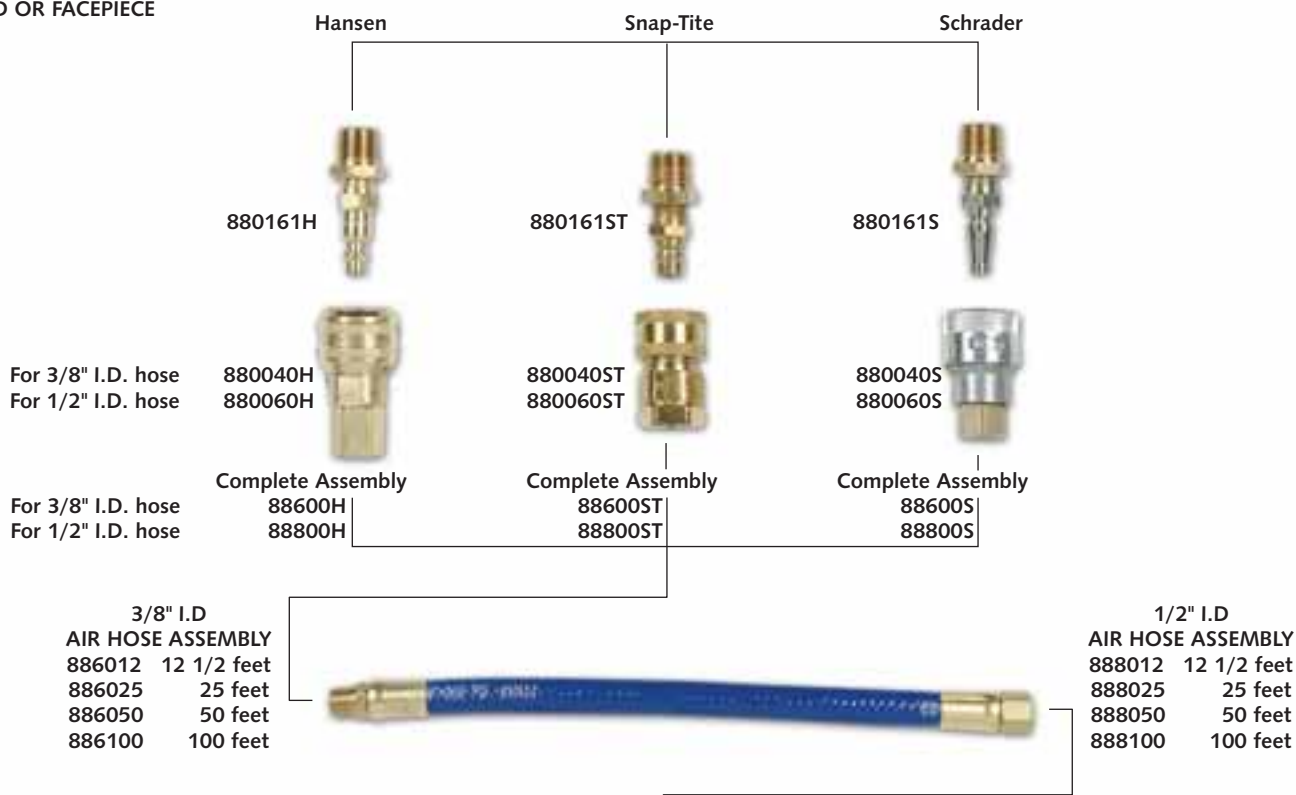
SEE PAGE 26 AND 27 FOR QUICK CONNECT COUPLERS AND AIR SUPPLY HOSES.

# AIRLINE HOSES

## AND QUICK-CONNECT

# COUPLERS

QUICK CONNECT COUPLERS FOR  
CONNECTING THE AIR SUPPLY HOSE  
TO HOOD OR FACEPIECE



QUICK CONNECT COUPLERS FOR  
CONNECTING THE AIR SUPPLY  
HOSE TO THE AIR SOURCE



NOTE: •Components above dashed line are required for NIOSH Approved Respirator  
•Components below line are optional  
• 3/8" I.D. hoses have 1/4" NPT thread and 1/2" hoses have 3/8" NPT thread.

WARNING: •OSHA requires that couplers not be interchanged with any couplers used for non-breathing air systems.

•Use of couplers between hose lengths voids NIOSH approval

Reference: OSHA Safety and Health Standard for Respiratory Protection 29CFR§1910.134

## AIRLINE HOSES & QUICK CONNECT COUPLERS

North hoses are available for both 3/8" I.D. and 1/2" I.D. in 12 1/2', 25', 50', and 100' lengths. North offers Hansen, Schrader and Snap-Tite Quick Connect Couplers for connecting the hose to the facepiece or breathing hood, and the air source.

### Air Supply Hoses

Part#	Description
886012	12 1/2 ft. Air Hose, 3/8" I.D.
886025	25 ft. Air Hose, 3/8" I.D.
886050	50 ft. Air Hose, 3/8" I.D.
886100	100 ft. Air Hose, 3/8" I.D.
888012	12 1/2 ft. Air Hose, 1/2" I.D.
888025	25 ft. Air Hose, 1/2" I.D.
888050	50 ft. Air Hose, 1/2" I.D.
888100	100 ft. Air Hose, 1/2" I.D.

### Quick Connect Couplers for Connecting Air Supply Hose to Hood or Facepiece

Description	Hansen	Snap-Tite	Schrader
Male plug with bushing for 3/8" NPT thread	880161H	880161ST	880161S
Female coupler for 3/8" I.D. Hose	880040H	880040ST	880040S
Female coupler for 1/2" I.D. Hose	880060H	880060ST	880060S
Coupler assembly for 3/8" I.D. Hose	88600H	88600ST	88600S
Coupler assembly for 1/2" I.D. Hose	88800H	88800ST	88800S

### Quick Connect Couplers for Connecting Air Supply Hose to Air Source

Description	Hansen	Snap-Tite	Schrader
Male plug, for connecting to 3/8" I.D. Hose	880141H	880141ST	880141S
Male plug with bushing , for connecting to 1/2" I.D. Hose	880161H	880161ST	880161S
<b>To attach coupler to air source</b>			
Female coupler for air source with 1/4" NPT male thread	880040H	880040ST	880040S
Female coupler for air source with 1/4" NPT female thread	880041H	880041ST	880041S
Female coupler for air source with 3/8" NPT male thread	880060H	880060ST	880060S
Female coupler for air source with 3/8" NPT female thread	880061H	880061ST	880061S

### Hose Assemblies to combine 3/8" I.D. Hose with coupler assembly for connecting the air supply hose to hood or facepiece

Description	Hansen	Snap-Tite	Schrader
12 1/2 ft. Air Hose, 3/8" I.D.	886012H	886012ST	886012S
25 ft. Air Hose, 3/8" I.D.	886025H	886012ST	886012S
50 ft. Air Hose, 3/8" I.D.	886050H	886050ST	886050S
100 ft. Air Hose, 3/8" I.D.	886100H	886100ST	886100S

warning: If more than one hose is required, join the hoses together. Do not use couplers between hose lengths. Only one 12 1/2 ft. or 25 ft. length of hose should be used in combination with any hose length to a maximum of 300 ft. OSHA requires that couplers not be interchangeable with any couplers used for non-breathing air or gas systems.

# SELF CONTAINED BREATHING APPARATUS (SCBA)



## NORTH FRONTIER™ SELF CONTAINED BREATHING APPARATUS

North Frontier™ SCBA is as easy to use as it is rugged. This self-contained breathing apparatus (SCBA) features uncomplicated components that are dependable and easy to maintain. The North Frontier SCBA is available with either a tight fitting facepiece or hood bringing you the workplace flexibility you need and the options your workers desire. Both provide the same high level of protection, (OSHA assigned protection factor of 10,000). The clear hood is quick and easy to clean, ideal for workers who wear prescription eyewear.



### features

- Choice of facepiece or hood
  - Facepiece
  - Hood
- Compact Demand Valve
  - Side Mounted
- Composite Backplate

### benefits

- Flexibility to choose what's right for your worksite
  - High impact protection
  - Quick & easy to don
  - Use with prescription eyewear
- Smallest demand valve available
  - Out of the way, will not interfere with field of vision
- Lightweight, but rugged for the harshest environment

Part#	Description	Packaging
913200, S	30 minute SCBA with elastomeric facepiece, 2216 psi aluminum cylinder	1 per package
915200, S	30 minute SCBA with PVC hood, 2216 psi aluminum cylinder	1 per package
910301LP	Replacement Cylinder for Frontier, 30 minute aluminum	1 per package

## 800 SERIES SELF-CONTAINED BREATHING APPARATUS



822K

The North 800 Series SCBA features a soft silicone full facepiece with dual sealing flange. Other features include a demand valve with "First Breath Release" and a Kevlar® / Nomex® PBI® harness. Includes carrying case.

Part#	Description	Packaging
822K, SK	30 minute SCBA, 2216 psi, aluminum cylinder	1 per package
823K, SK	30 minute SCBA, 2216 psi, hoop wrapped aluminum cylinder	1 per package
821K, SK	60 minute SCBA, 4500 psi, full wrapped aluminum cylinder	1 per package
80021	Replacement Cylinder for 800 Series, 30 minute aluminum	1 per package
80022	Replacement Cylinder for 800 Series, 30 minute hoop wrapped aluminum	1 per package
80032	Replacement Cylinder, for 800 Series, 60 minute full wrapped aluminum	1 per package

\* Kevlar and Nomex are registered trademarks of Dupont Company.

\*\* PBI is a Registered trademark of Hoechst Celanese Company Corp.

## ACCESSORIES



83219

Part#	Description	Packaging
83219	Deluxe Wall Case with shelf and single SCBA cylinder bracket (20" X 13" X 32.5", 10 lb)	1 per package
80994	Wall and Truck Mounting Bracket for SCBA	1 per package
80993	Molded carrying case for SCBA (included with 800 Series SCBA)	1 per package
80060	Airline Accessory for 800 Series – allows the SCBA to be used as an emergency escape device and a Pressure Demand Airline Respirator	1 per package
900323	Spanner, 2 pin, for CDV adapter assembly	1 per package
900099	Fit Test Adapter, for Porta-Count Quantitative fit testing	1 per package

# EMERGENCY

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# ESCAPE BREATHING APPARATUS

## MODEL 845, 850 AND 855 EEBA



North offers three models of Emergency Escape Breathing Apparatus (EEBA) in five and ten minute units. Model 845 provides an average of 42 lpm of airflow for five minutes, and the 850 provides 42 lpm for ten minutes. The Model 855 provides a higher average flow, 75 lpm, for five minutes, which is ideal where escape routes require high levels of exertion. The 855 also features a unique diffuser / muffler system to reduce noise inside the hood.

All models feature a transparent hood made of durable polyurethane for superior visibility. To minimize fogging, a deflector blows incoming air onto the lens. After use, the hood can be detached for replacement or cleaning. The cylinder is lightweight and refillable. An optional molded carrying case and wall-mounting bracket are also available.

### features and benefits

- Pressure reducing valve with simplified design reduces repair costs and maintenance.
- Simple to use on / off valve with pressure gauge to easily test and check air cylinder pressure
- High visibility carrying bag and carrying strap system can be easily found in an emergency.
- Pictorial user instructions on bag are easy to understand in an emergency situation.



Part#	Description	Packaging
845	Five Minute EEBA (Avg 42 lpm)	1 per package
850	Ten Minute EEBA (Avg 42 lpm)	1 per package
855	Five Minute EEBA, High Flow (Avg 75 lpm)	1 per package

## ACCESSORIES



Part#	Description	Packaging
89986	Wall mounting bracket for 845, 850 and 855	1 per package
89987	Molded carrying case for 850 and 855	1 per package
89992	Molded carrying case for 845	1 per package



# SUPPORT MATERIAL



## ***EZGUIDE™***

The ezGuide software program is designed to help the user develop objective change-out schedules for North gas and vapor cartridges. In addition, the ezGuide will determine the appropriate types of respiratory and glove protection needed. It was designed to make it easier for the user to be compliant with the revised OSHA regulation 29 CFR 1910.134. ezGuide can be ordered by contacting North Safety Products or it can be accessed online at North Safety Product's website [www.northsafety.com](http://www.northsafety.com)

## ***NORTH CARTRIDGE AND FILTER REFERENCE POSTER***

This poster, ideal for mounting in key workplace locations, lists all North cartridges, filters and prefilters, the contaminants they protect against, and the appropriate facepieces for which they are NIOSH approved. Available in English, French and Spanish. Posters can be ordered by contacting North Safety Products .

## ***7700/5500, NORTH HALF MASK RESPIRATOR POSTER***

Appropriate for mounting in key workplace locations, this chart demonstrates the proper donning and removal of the North 5500 Series and 7700 Series air-purifying halfmasks. Available in English, French and Spanish. Posters can be ordered by contacting North Safety Products.

## ***800 SERIES, NORTH 800 SERIES SCBA POSTER***

Also appropriate for mounting in key workplace locations, this chart demonstrates the proper donning and removal of the North 800 Series SCBA. Illustrated in full color, these step-by-step procedures are easy to follow and understand. Posters can be ordered by contacting North Safety Products.

## ***NORTH TRAINING VIDEOS***

North offers three training videos that demonstrate the proper use, maintenance and limitations of respirators in a straightforward and easy to understand style.

**Air-Purifying (80812):** This 12 minute video explains why wearing a respirator is important to personal health, and is followed by four sections: Getting a Good Fit, Filters and Cartridges, Using your Respirator and Cleaning and Maintenance. Available in english and spanish.

**Airline (80789):** This 20 minute video explains what an airline respirator is and the different types that are available for use. The narrator then discusses hoses and couplers, the different air sources and the operational differences between continuous flow and pressure demand respirators.

**SCBA (80781):** This 16 minute video stresses the importance of correctly knowing the use, maintenance, inspection and limitations of an SCBA unit. The narrator defines the components of the unit and the operational differences from air supplied respirators.

## ***TECHNICAL SUPPORT***

For Technical Support on Respiratory equipment, call North or visit our website at [www.northsafety.com](http://www.northsafety.com).

## ***TRAINING***

OSHA Regulation 29CFR1910.134 requires the employer to “provide effective training to employees who are required to use respirators.” North will help you meet this OSHA requirement by providing you with the skills you need to train your North respirator users. You will become familiar with the types of respirators available, and the proper procedures used in fit testing.



RP7700/5500 POSTER

# ESTABLISHING AN EFFECTIVE

OSHA 29 CFR §1910.134 requires employers to establish and maintain a written respiratory protection program to protect their employees who wear respirators.

## Respirator Program Requirement

Selecting the appropriate respirator is only one of the requirements to establish an effective respiratory protection program. Before you consider which of the North Safety Products respirators would be applicable for your needs, you must consider all the factors which impact on proper respirator selection and use.

## Use of Respirators versus Engineering or Administrative Controls

Whenever possible, respiratory hazards or any other safety or health hazard should be engineered out of the work environment. The safest environment is a hazard free environment. If it is not possible to eliminate or reduce the hazard, or while the hazard is being eliminated or reduced, properly chosen respirators can be an effective way to reduce employee exposures to toxic materials.

## Employer Responsibilities

When health hazards requiring respiratory protection are present in the work environment, the employer has the responsibility of developing an effective respirator program. The employer must provide respirators that protect their employees' lives and health, and make sure the employees use the equipment properly.

OSHA has set forth four requirements for a respiratory protection program.

1. The employer shall establish a written program with worksite specific procedures that are updated as necessary.
2. Certain procedures must be followed for voluntary use of respirators in non-hazardous atmospheres.
3. The program must be administered by a trained program administrator.
4. Respirator training, and medical evaluations must be provided at no cost to the employee.

Details of specific program elements follow:

- Procedures for selecting, and providing at no cost to the employee, NIOSH approved respirators based on an assessment of present and probable hazards, either measured or estimated.
- A medical evaluation of every employee who will be required to wear a respirator, as well as those wearing respirators for comfort reasons in a non-hazardous atmosphere. This is required before the employee is fit tested or allowed to wear a respirator. The evaluation must be administered at no cost to the employee by a physician or other licensed health care professional, and must use a questionnaire mandated by OSHA or a medical exam, which provides the same information.
- A follow-up medical exam, also at no cost to the employee, must be provided for any employee who gives a positive response to any of the questions 1-8 in section 2 of the OSHA medical questionnaire.
- Mandatory pre-use annual fit testing of all tight-fitting respirators including supplied air respirators, all of which must be fit tested in a negative pressure mode. Qualitative and quantitative fit test protocols are included in the new rules as mandatory in appendix A.

- Procedures for proper respirator use in routine and foreseeable emergency operations.
- Procedures and schedules for cleaning, disinfecting, storing, inspecting, repairing, discarding and maintaining respirators.
- Procedures to ensure adequate quantity, flow and quality of breathing air for supplied air respirators, including oxygen content, CO alarms and non-interchangeability of couplings.
- Pre-use and annual training of employees, at no cost to the employees, in the proper use of respirators, including a requirement that the trained employee demonstrate knowledge of at least the following points:
  1. Why the respirator is necessary and how improper fit, usage, or maintenance can compromise the protection offered by the respirator;
  2. The limitations and capabilities of the respirator;
  3. How to use the respirator in emergency situations, including those involving respirator malfunction;
  4. How to inspect, put on, remove, use and perform a user seal check;
  5. The procedures for maintenance and storage of the respirator;



*Determine concentration of contaminants*

# RESPIRATOR PROGRAM

- How to recognize medical signs and symptoms that may limit or prevent the effective use of the respirator;
- What § 1910.134 generally requires the employer to do under its Respiratory Protection Program.

*Employers may exclude from the Respiratory Program those employees who use a filtering facepiece type respirator in an atmosphere where no hazard exists. An employer whose employees are using any other type of respirator in an atmosphere where no respiratory hazard exists are required to be included in a Respiratory Program in accordance with § 1910.134.*

An important provision in this rule allows employers whose employees are in an atmosphere containing hazardous gases or vapors to use air-purifying respirators only if the respirator is equipped with a NIOSH approved End-of-Service-Life-Indicator (ESLI) for the specific contaminant, or if the employer establishes a change schedule based upon objective information or data that will ensure that cartridges are changed before the end of their useful life. If neither an ESLI nor a change schedule is available, a supplied air respirator must be used.

**How to Select the Appropriate Respirator**  
29 CFR 1910.134 (d) “requires the employer to evaluate respiratory hazard in the workplace, identify relevant workplace and user factors, and base respirator selection on these factors.”

To select the correct respirator, the employer must first identify the respiratory hazards in the workplace, and then:

- estimate the employee’s exposure to the respiratory hazard(s), and
  - determine if the environment is immediately dangerous to life or health (IDLH).
- All oxygen deficient atmospheres shall be considered IDLH with one exception: when an employer demonstrates that, under all foreseeable conditions, the oxygen concentration can be maintained within the ranges specified in the following table (for the altitudes set out in the table),



*Train and Fit Respirator Wearers*

Altitude (feet)	Oxygen deficient atmospheres (%O <sub>2</sub> ) for which the employer may rely on any atmosphere supplying respirator
Less than 3,001	16.0 - 19.5
3,001 - 4,000	16.4 - 19.5
4,001 - 5,000	17.1 - 19.5
5,001 - 6,000	17.8 - 19.5
6,001 - 7,000	18.5 - 19.5
7,001 - 8,000	19.3 - 19.5
Above 8,000	Exception does not apply Oxygen-enriched breathing air must be supplied above 14,000 ft

then any North atmosphere supplying respirator (airline or SCBA) may be used - but no air-purifying respirator!

- If an employer cannot identify or “reasonably estimate” the employee exposure, the atmosphere MUST be considered IDLH.

Finally, the employer must

- Identify the contaminant(s) present in the atmosphere and ask (and answer) the following questions:
  - What is the concentration?
  - Are they gaseous or particulate?
  - Are the contaminants IDLH?

After following the preceding steps, the employer is ready to select the appropriate respirators for the particular hazard(s). If the atmosphere is IDLH, the employer must provide the following respirators for the employee:



*Clean and Maintain Respirator*

- A full facepiece NIOSH certified SCBA with a minimum service life of 30 minutes (e.g. North 800 Series), OR
- A full facepiece pressure demand airline respirator with auxiliary self-contained air supply (e.g. North 85500A)

If the atmosphere is NOT IDLH, the employer must provide a respirator to the employee that is appropriate for the contaminant(s) identified (concentration level, gaseous or particulate).

For protection against gases and vapors, the following must be used:

- An atmosphere-supplying respirator, OR
- An air-purifying respirator where:
  - The respirator is equipped with a NIOSH certified ESLI for the contaminant, OR
  - If there is no ESLI available, a change schedule for cartridges that is based on objective information or data that ensures cartridges are changed before the end of their services life.

For protection against particulates, the following must be use:

- An atmosphere- supplying respirator, OR
- An air-purifying respirator equipped with NIOSH certified filter for particulates under 42 CFR 84. In Canada, refer to Federal or Provincial Regulations and to CSA Z94.4 Standard for Respiratory Protection.

For more information and help complying with § 1910.134 contact North or visit our web site at [www.northsafety.com](http://www.northsafety.com)

# WARNINGS RELATED TO NORTH RESPIRATOR SELECTION AND USE

1. Failure to properly select the appropriate respirator for all the contaminants and concentrations against which protection is required, or a failure to follow North's instructions and warnings, will expose the respirator user to hazardous materials, and the risk of serious illness, disability or death.
2. None of the respirators described in this catalog may be used for sandblasting (abrasive blasting).
3. None of the respirators described in this catalog except the 800 Series Self-Contained Breathing Apparatus may be used for fire fighting.
4. None of the respirators described in this catalog except the 800 Series Self-Contained Breathing Apparatus and the 85500A Series Pressure Demand Airline Respirator (equipped with a fully charged emergency escape air cylinder) may be used:
  - In any atmosphere having less than the equivalent of 19.5% oxygen by volume at sea level.
  - In atmospheres having concentrations of any substances greater than the maximum use concentrations for the specific type of respirator as shown in applicable OSHA or EPA regulations, in any applicable NIOSH publication, the contaminant Material Safety Data Sheet (MSDS), a pesticide label, or in the North Respirator Selection Guide. For example, OSHA prohibits the use of disposable respirators in asbestos environments.
  - In poorly ventilated areas, or in confined spaces such as tanks, small rooms, tunnels, sewers or vessels, unless the confined space is well ventilated and the concentration of toxic contaminants is known to be, and will continue to be, below the maximum use concentration recommended for the respirator.
  - In atmospheres where the concentrations of toxic contaminants are unknown, or are Immediately Dangerous to Life or Health (IDLH). An IDLH atmosphere is an atmospheric concentration of any toxic, corrosive or asphyxiant substance that poses an immediate threat to life, would cause irreversible debilitating effects on health, or would interfere with the ability to escape from a dangerous atmosphere.
5. Do not use an air-purifying respirator in any atmosphere having less than the equivalent of 19.5% oxygen by volume at sea level.
6. Do not use any air-purifying respirator for protection against:
  - Air contaminants other than those listed on the air-purifying elements and on the NIOSH Approval Label which is supplied with each respirator and replacement air-purifying element;
  - Particulate contaminants in an atmospheres containing oil unless a NIOSH "R" or "P" class filter is used;
  - Gas or vapor contaminants unless the air-purifying elements are equipped with End-of-Service-Life-Indicators for that contaminant; or a cartridge change schedule is implemented based on objective service data;
  - Gases or vapors which generate high heats of reaction with the sorbent material in the cartridge.
7. Do not use a tight fitting respirator that has not been fit tested on the wearer. Fit testing of a potential wearer must be conducted before he / she is allowed to wear any tight fitting respirator. Fit testing instructions are given in Appendix A of OSHA Regulation 29 CFR §1910.134. Carefully follow instructions for conducting periodic user seal checks contained in the Instructions for Use which accompanies each respirator to make certain that the respirator facepiece-to-face seal has not been compromised and that the respirator operates properly.
8. Do not use a tight fitting respirator when conditions prevent a good facepiece-to-face seal. Examples of such conditions are:
  - a) the growth of beards, mustaches or sideburns which will pass between the facepiece sealing area and the face;
  - b) the use of spectacles, goggles or other devices which interfere with the respirator;
  - c) the use of head or face coverings which pass between the facepiece sealing area and the face; and
  - d) missing teeth or dentures, facial deformities or deep scars.
9. Do not use an air purifying element having End-of-Service-Life Indicators if you cannot see the End-of-Service-Life Indicators while wearing the respirator.
10. Do not alter or modify a North Respirator in any way.
11. Do not use any supplied air respirator without it being supplied with an adequate volume of Grade D or better breathing air.
12. Immediately leave the area and remove the respirator if:
  - a) breathing becomes difficult,
  - b) dizziness or other distress occurs,
  - c) the wearer senses irritation, smells or tastes the contaminants,
  - d) the air-purifying element is equipped with an End-of-Service-Life Indicator which has changed color to indicate expiration,
  - e) the respirator becomes damaged.; or
  - f) the air supply fails.
13. Any air-purifying respirator, when properly selected and fitted, will significantly reduce, but will not completely eliminate, the breathing of contaminant(s) by the respirator wearer. When working in atmospheres containing substances which are reported to cause cancer in amounts below the permissible exposure limit, the wearer will obtain better protection from a continuous flow or positive pressure air supplied respirator or self-contained breathing apparatus (an SCBA).
14. A respirator does not provide protection to exposed areas of the body. If the contaminated atmosphere contains vapors, gases or airborne particulate matter which may either irritate or burn the eyes or the skin, or can be absorbed by the body through penetration of the skin, the use of a full facepiece or specialized eye protection, hand and/or body coverings may be required for protection.

For more information on appropriate gloves and/or protective clothing, contact North Customer Service.

## Respiratory Protection

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[www.northsafety.com](http://www.northsafety.com)

It's more than a website, it's a philosophy

**"The Source"    Products    Knowledge    Solutions**

At North Safety Products we believe producing state of the art innovative safety and personal safety equipment is NOT enough. In order to enhance user safety, confidence and productivity it is also our responsibility to provide Qualified Training Personnel, In-House Training Facilities, Training Video programs and Literature.

**Selection Guide for Respiratory and Hand Protection.**  
Also calculates estimated cartridge service life.  
Click icon above for our 2.2 ezGuide software



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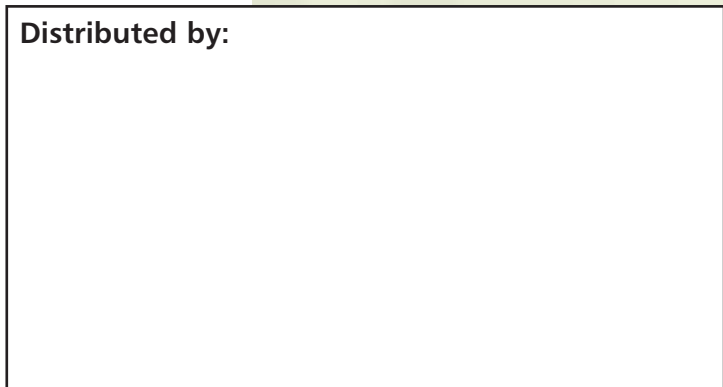
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