



PremAire® Supplied-Air Respirator System

advanced air-line respirator

The PremAire Supplied-Air Respirator System provides the utmost in versatility. Modular system allows users to create literally thousands of different respirator configurations through one unit. As a result, workers can use MSA's PremAire System to match specific respiratory protection needs to the task at hand.

Features:

- Versatile, cost-efficient, supplied-air respirator.
- Thousands of respirator configurations possible using one unit.
- Lightweight, mask-mounted regulator provides high air flow; responds quickly to changing breathing requirements.
- Escape cylinder option makes system suitable for use in Immediately Dangerous to Life and Health (IDLH) environments.
- Dual-supply option improves worker mobility.
- Vortex tube option provides body temperature control when working in protective clothing, for either hot or cold environments.



The PremAire Respirator is a Type C, pressure-demand, supplied-air respirator as defined by NIOSH 42 CFR Part 84.

The PremAire Supplied-Air Respirator is recommended for users not requiring emergency escape capability. This unit's advantage over conventional air-supplied devices is that users can easily add those options needed for future applications.

The basic PremAire Respirator can be upgraded with any of three options. These include:

- an escape cylinder option (in either a five- or ten-minute-rated air supply) that permits emergency escape from Immediately Dangerous to Life or Health (IDLH) atmospheres.
- a dual-supply option that lets workers connect from one pressurized continuous air source to another without losing air flow continuity.
- Vortex tube option that delivers whole-body temperature control for added worker comfort.

Most options can be combined or used individually, giving users thousands of respirator configurations from which to choose. Because of its modularity and versatility, the system is well-suited for use in a broad range of applications, including hazardous material handling, confined space work, chemical and petrochemical processing, shipbuilding, utilities work, asbestos and lead paint abatement, nuclear applications, general industry, and fire service.

In operation, the PremAire System Supplied-Air Respirator provides respirable air to the user on demand - not constantly, as with a constant-flow type device. As such, it can be used with a large, compressed air cylinder of breathable air or a bank of cylinders set up in cascade fashion. Alternatively, the PremAire System can be used with a compressor system designed and configured to supply respirable breathing air to the respirator within the NIOSH-approved pressure range.

The PremAire System is designed to maintain slight positive air pressure inside the facepiece - whether the wearer is inhaling or exhaling - to prevent contaminants from entering the facepiece, should there be slight face-to-facepiece seal leakage.

Mask-Mounted Regulator (MMR)

The PremAire System features a pressure-demand regulator mounted at the facepiece. MMR maintains slight positive pressure within the facepiece while regulating and reducing air supply from NIOSH/MSHA-approved range of 60-100 psig of breathable pressure.

The result is a low-profile, high-performance unit that quickly responds to a user's changing breathing requirements. Unit also features a second-stage regulator bypass system and shutoff button, making it easier for users to deactivate the second-stage regulator.

The PremAire System features the Firehawk® MMR. Offered as both push- and slide-to-connect versions, the Firehawk MMR's design keeps the facepiece profile to a minimum while offering almost 100% field-of-vision.

MSA also offers the Solid-Cover Firehawk MMR for users not needing a purge button. Solid-Cover Firehawk MMR operates the same as the original Firehawk MMR.

Facepieces

MSA offers choice of two facepieces, the proven Ultra Elite® Facepiece or the new industrial Advantage® 4000 Facepiece for the PremAire Cadet Respirator. Choose from three facepiece sizes (small, medium, or large) in either Hycar™ Rubber or silicone rubber. Nosecups are available in two sizes, standard and large.



The **Ultra Elite Facepiece** features:

- A one-way check valve preventing exhaled air from entering the mask-mounted regulator.
- A rugged polycarbonate lens with scratch-resistant coating.
- A mechanical speaking diaphragm for short-range communications.
- Five adjustable rubber straps for exceptional head comfort, security, and safety.
- Optional heat-resistant Kevlar net-style head harness.

Ultra Elite Facepieces, with Nosecup, Push-To-Connect Adapter

	Rubber Head Harness		Speed-ON® Head Harness	
	Hycar	Silicone	Hycar	Silicone
Small	10037650	10043417	10043419	10043430
Medium	10037648	10043413	10043415	10043416
Large	10037652	10043431	10043433	10043434

The **Advantage 4000 Facepiece** features:

- Adapters to convert the Advantage Facepiece to a Twin-Cartridge Respirator (using Advantage Cartridges) or an RD40 Facepiece.
- A one-way check valve preventing exhaled air from entering the mask-mounted regulator.
- A rugged polycarbonate lens with scratch-resistant coating.
- Four-point silicone head harness for exceptional comfort and security.
- Optional polyester net or Kevlar net head harness.



Advantage 4000 Facepieces, with Nosecup, Push-To-Connect Adapter

	Rubber Head Harness		Polyester Net Head Harness	
	Hycar	Silicone	Hycar	Silicone
Small	10075911	10075910	10075915	10075914
Medium	10075905	10075904	10075909	10075908
Large	10075917	10075916	10075921	10075920

PremAire System Manifold

The heart of the PremAire System is its unique, patented manifold – the manifold serves as the air distribution center for the entire system. It is also the component that permits use of all PremAire System options.

Positioned near the wearer's waist, the manifold has five individual ports that permit connection of various PremAire System air-supply hoses and system options. These ports include an inlet for connecting the emergency-escape cylinder's high-pressure hose; an outlet for the vortex tube connection hose; an inlet for the main air-supply hose; an inlet for the dual-supply option; and an outlet used to connect the PremAire System manifold to the mask-mounted regulator.

PremAire Cadet Respirator users can choose from three **waist belts**: a standard, uncoated, nylon web belt if there are no decontamination factors; a polyurethane-coated nylon belt designed for easy decontamination; and a Nomex belt assembly that provides added flame and heat resistance. All three belts accommodate waists up to 48 inches.



Support Belts

Nylon web support belt	494020
Polyurethane-coated nylon support belt, black	492827
Nomex support belt	802811

PremAire System with Escape-Cylinder Option

The PremAire System escape cylinder option allows users to work in an IDLH (Immediately Dangerous to Life or Health) atmosphere by providing an emergency escape capability. The National Institute for Occupational Safety and Health (NIOSH) requires this capability for any supplied-air respirator used in an IDLH atmosphere.

IDLH means conditions that pose immediate threat to life or health, or conditions that pose an immediate threat of severe exposure to contaminants such as radioactive materials, which are likely to have adverse cumulative or delayed effects upon health.

PremAire System respirators equipped with this option feature a belt-mounted carbon fiber or aluminum air cylinder. In normal use, apparatus operates on same principles as PremAire System pressure-demand supplied-air respirators.

When connected to an air source, system provides continuous respiratory protection until users disconnect from air-supply hose. In emergency escape situations, cylinders activate by opening the cylinder valve. Should the primary air supply fail or be interrupted, cylinder provides an emergency escape air source.

Depending upon user needs, escape cylinders are available in either five- or ten-minute-rated air supply. Depending upon user preference, wearers also have choice of cylinder placement – positioned on either the left or right hip.

Note: The emergency escape air cylinder is the only PremAire Respirator configuration approved for use in IDLH conditions.

CAUTION: The emergency-escape air cylinder must **not** be used to provide respiratory protection while entering the working area. Entry must be made only when connected to the primary air source through the air-supply hose.

PremAire System with Dual-Supply Option

A major advantage of the PremAire System dual-supply option is improved mobility, as workers need not remain tethered to a single air-supply hose throughout the work period. To accommodate this option, the PremAire System manifold features two air-inlet ports: a **MAIN** inlet and a **DUAL-SUPPLY** inlet. Both are used to deliver respirable air to the user when connected to a pressurized air source.

With dual-supply capability, users can connect from one pressurized continuous air source to another without losing continuity of air flow. When the first length of air-supply hose has reached its limit, the wearer simply plugs into a second approved air source and disconnects from the first. This technique is known as "leap-frogging" as it gives workers the ability to move from station to station without disrupting the air supply.

Operating Principle:

The dual-supply option works on the same principle as the PremAire Supplied-Air Respirator. Whether a worker is using the **MAIN** inlet of the manifold, the **DUAL-SUPPLY** inlet, or both inlets simultaneously, the respirator will provide supplied-air respiratory protection as long as the user remains connected to one of the two air sources.

A Portable Air Supply

For even greater versatility, the dual-supply option is compatible with the TransportAire™ Portable Air-Supply System. The TransportAire System is available in two versions, one for high-pressure cylinders and one for low-pressure cylinders. Both versions consist of an impact-resistant handle with urethane-coated nylon straps that fit around standard self-contained breathing apparatus air cylinders. An Audi-Larm™ Audible Alarm warning device is standard on the high-pressure system and is available as an option for the low-pressure system.

With the TransportAire System connected to the dual-supply inlet of the PremAire System manifold, a worker can carry the portable air supply to a location where a second air source is available for longer-term use. After connecting the second air source into the **MAIN** inlet manifold, the user can disconnect the TransportAire System and keep it available until it's time to exit the area.

Applications where this feature can be used include hazardous material disposal and remediation sites where heavy equipment operators work. For additional information on the TransportAire System and MSA auxiliary cylinders, contact MSA Customer Service or an MSA authorized distributor.

When combined with the emergency escape cylinder option, the dual-supply option is suitable for use in IDLH environments. The dual-supply option can also be used in conjunction with the PremAire System vortex tube option, providing that a continuous air-supply source (such as an air compressor) is used.

Note: The TransportAire Portable Air-Supply System must not be used with vortex tubes, as the cooling system would exhaust the cylinder air supply at a higher than normal rate.



PremAire System with Vortex Tube Option

When protective suits are worn in conjunction with the PremAire System, the vortex tube option helps to improve worker comfort and productivity by providing temperature control. For example, when workers must wear chemical splash suits, they're provided with a cooling capability with this option.

Two vortex tube models are available: a **cool-only** version reduces the temperature of air flowing into the protective garment by as much as 60°F; and a **warm/cool** model which provides the same cooling capability, but also provides the option of increasing the temperature of air flowing into the garment by as much as 60°F. As such, the **warm/cool** model is well-suited for personnel who must work in cold climates or refrigerated rooms.

Operating Principle:

In operation, a single air-supply hose feeds the MAIN inlet of the PremAire System manifold, where the air path is then split in two: one portion flows to the mask-mounted regulator attached to the facepiece while a second portion is directed into the belt-mounted vortex tube. Inside the vortex tube, rapid expansion of air produces both cool and warm air. With the **cool-only** version, hot air is vented through the vortex tube's exhaust port while cool air is directed into the suit. With the **warm/cool** version, the worker can direct either the cool or warm air into the suit for temperature control.

Vortex tubes designed for the PremAire System are compatible with a wide range of chemical-resistant clothing.

Note: Vortex Tube Kits with 6-inch connection hose are compatible with all PremAire System Respirator configurations except those with an emergency-escape air cylinder positioned on the LEFT HIP. Vortex Tube Kits with 12-inch hose must be used when combined with the LEFT HIP emergency escape cylinder option. This option must be ordered in addition to the PremAire System ordered. The new ATO matrix does not feature a vortex tube column.

PremAire System Upgrade Kits	
Escape Cylinder Kits	
P/N	Description
800696	Kit with fully-wound, carbon-fiber, 5-minute cylinder, for right hip
800694	Kit with fully-wound, carbon-fiber, 5-minute cylinder, for left hip
800697	Kit with fully-wound, carbon-fiber, 10-minute cylinder, for right hip
800695	Kit with fully-wound, carbon-fiber, 10-minute cylinder, for left hip
Vortex Tube Kits	
P/N	Description
800706	Kit with 6-inch hose, cool-only version
800710	Kit with 6-inch hose, warm/cool version
801012	Kit with 12-inch hose, cool-only version
801014	Kit with 12-inch hose, warm/cool version
Dual-Supply Kit	
P/N	Description
800044	Includes 8-inch extension hose, less quick-disconnect assembly
PremAire System Air-Line Kit	
P/N	Description
811940	PremAire System Air-Line Filter Kit
811984	Replacement Filter Element and Gasket

Complete PremAire System Assemblies	
P/N	Description
10045160	PremAire System with Firehawk Slide-To-Connect MMR, with 5-minute aluminum cylinder, right-hip model, less case
10045161	PremAire System with Firehawk Slide-To-Connect MMR, with 10-minute aluminum cylinder, right-hip model, less case
10045162	PremAire System with Firehawk Push-To-Connect MMR, with 5-minute aluminum cylinder, right-hip model, less case
10045163	PremAire System with Firehawk Push-To-Connect MMR, with 10-minute aluminum cylinder, right-hip model, less case
10055164	PremAire System with Firehawk Slide-To-Connect MMR, with 5-minute aluminum cylinder, right-hip model, with case
10045165	PremAire System with Firehawk Slide-To-Connect MMR, with 10-minute aluminum cylinder, right-hip model, with case
10045166	PremAire System with Firehawk Push-To-Connect MMR, with 5-minute aluminum cylinder, right-hip model, with case
10045167	PremAire System with Firehawk Push-To-Connect MMR, with 10-minute aluminum cylinder, right-hip model, with case
10028600	Firehawk MMR Slide-To-Connect upgrade kit for Ultra Elite Facepiece (includes cover w/slide)
10038664	Firehawk MMR Push-To-Connect upgrade kit for Ultra Elite Facepiece

Note: When ordering via traditional MSA part numbers, please be sure to order the male quick-disconnect when constructing your air-line system.

Low-Pressure TransportAire Portable Air-Supply System	
P/N	Description
816693	TransportAire System assembly with cylinder carrier, regulator, and regulator-to-hose adapter
Option	
P/N	Description
85078	Low-pressure Audi-Larm Audible Alarm assembly
Low-Pressure (2216 psig) Cylinders	
P/N	Description
807586	30-minute, L-30 carbon-wrapped
469619	30-minute hoop-wrapped
809872	30-minute 3AL (aluminum)
Low-Pressure (3000 psig) Cylinder	
816115	Carbon-fiber L-30+, 30-minute

High-Pressure TransportAire Portable Air-Supply System	
P/N	Description
812217	TransportAire System assembly with cylinder carrier, regulator, regulator-to-hose adapter, and high-pressure Audi-Larm Audible Alarm
High-Pressure (4500 psig) Carbon-Fiber Cylinders	
P/N	Description
807588	H-60, 60-minute
807570	H-45, 45-minute
807587	H-30, 30-minute

Two Ways to Order Complete Assemblies:

Traditional MSA Part Numbers

For users who require faster delivery, the most commonly used PremAire System combinations are stocked and can still be ordered with a traditional MSA part number. All assemblies are sold less quick-disconnects. See page 6 of this bulletin for quick-disconnect ordering information. For air-supply hoses, see page 7.

The ATO System

MSA offers more PremAire System Respirator choices than ever before. All totalled, there are thousands of possible combinations so that workers can select just the right PremAire System for the job. MSA's Assemble-To-Order (ATO) System makes ordering the right unit easier and faster. Instead of choosing from a number of complete PremAire System assemblies, the ATO system (see page 8) works by allowing users to create their own part numbers. Each digit of an ATO part number will represent a specific component, so that the entire part number represents a finished respirator built exactly to the desired specifications.

PremAire Supplied-Air Respirator System*

Ordering Selection Matrix and Price List
All Prices in U.S. Dollars • Prices Effective April 16, 2010

Type	Belt Assembly	Escape Cylinders	Dual-Supply	MMR Regulator†	Facepiece Type	Facepiece	Facepiece Size	Nosecup	Head Harness	Quick-Disconnect	Case	
PS PremAire System	1 Nylon	0 None	0 None	E Firehawk STC 30" Solid Cover	0 None	0 None	0 None	0 None (only if you have no facepiece)	0 None	A None*	0 None	
	2 Urethane	1 5-Min Right Hip Carbon Fiber	1 8" Hose less QD	F Firehawk STC 42" Solid Cover	1 Non-NFPA	1 UE Hycar	S Small	UE-Medium	1 Rubber	B Snap-Tite Alum	1 Hard Case	
	3 Nomex	2 5-Min Left Hip Carbon Fiber	15" Hose less QD	2	G Firehawk PTC 30" Solid Cover	2 NFPA	2 UE Silicone	M Medium	1 UE-Large	2 EZ-DON Small	C Snap-Tite SST	2 Soft Case
	4	3 5-Min Right Hip Aluminum	J Firehawk STC 30" No By-Pass	K Firehawk STC 42" No By-Pass	L Firehawk PTC 30" No By-Pass	M Firehawk PTC 42" No By-Pass	Nosecup is standard with the Advantage 4000 Facepiece	4 EZ-DON Large	E Hansen SST	F Hansen Brass		
											5	4 5-Min Left Hip Aluminum
	6	5 10-Min Right Hip Carbon Fiber	Note: Must choose No By-Pass option when ordering a PremAire less an escape cylinder	* Unit requires use of a quick-disconnect to maintain approval.	H Foster SST							
						7	6 10-Min Right Hip Aluminum	Note: Firehawk slide regulators not compatible with Advantage 4000 Facepiece	I Foster Brass			
8	7 10-Min Left Hip Aluminum	Note: If you have selected the dual-supply option, you will need two of the same quick-disconnects. Just put one letter in the part number to indicate your selection, but when you calculate the price of your system, make sure you include a price for each quick-disconnect.	J Cejn Chrome									
								K Duff-Norton Brass				

*Note: This matrix must only be used for ordering complete PremAire Systems. This matrix cannot be used for ordering individual components (i.e., facepieces, escape cylinders, etc.). Please order components separately using their standard MSA part number.

†For applications strictly limited to non-IDLH atmospheres, NIOSH requires that the respirator system be configured without a bypass on the mask-mounted regulator (MMR). Please contact MSA Customer Service for more information.

C	—	PS													
Part Number														Quantity	

Ultra Elite Facepiece with Firehawk Push-To-Connect (PTC) MMR



PremAire System with vortex tube option



Ultra Elite Facepiece with Firehawk Slide-To-Connect (STC) MMR

Quick-Disconnects for Use with PremAire System:

Shown below are various quick-disconnect assemblies that can be used with the PremAire System. Quick-disconnects are required to connect air-supply hoses to the PremAire System manifold and to the air source. Additionally, locking-type quick-disconnects must be used to interconnect lengths of MSA air-supply hose when quick-disconnects are used. Otherwise, lengths of MSA air-supply hoses may be threaded together directly. Air-supply hoses can be interconnected up to a maximum length of 300 feet. Up to 12 sections of hose can be used to make up the maximum working length of hose. Locking quick-disconnects easily connect by pushing the plug and socket together. To separate, the plug and socket must first be pushed together, and then the sleeve retracted from the plug.

Locking Quick-Disconnects

Locking quick-disconnects can be used to interconnect lengths of MSA air-supply hose. For more systems, use up to 12 sections of hose to make up the maximum length.

P/N	Description
479009	CEJN Locking Quick-Disconnect Assembly, Socket, and Plug (Chrome)
476956	CEJN Locking Female Quick-Disconnect Socket (Chrome)
476955	CEJN Locking Male (w/Male X" NPT) Quick-Disconnect Plug (Chrome)
479010	Snap-Tite Locking Quick-Disconnect Assembly, Socket, and Plug (AL)
479032	Snap-Tite Locking Female Quick-Disconnect Socket (AL)
479015	Snap-Tite Locking Male (w/Male X" NPT) Quick-Disconnect Plug (AL)
479011	Snap-Tite Locking Quick-Disconnect Assembly, Socket, and Plug (SST)
479033	Snap-Tite Locking Female Quick-Disconnect Socket (SST)
479016	Snap-Tite Locking Male (w/Male X" NPT) Quick-Disconnect Plug (SST)

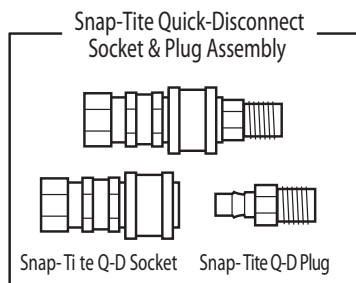
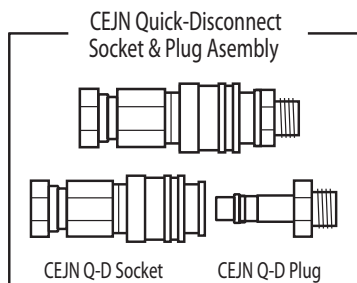
Quick-Disconnects and Adapters

AL-Aluminum; S-Steel; SST-Stainless Steel; BR-Brass

QUICK-DISCONNECT TYPE	Interchangeability †	1	2	3	4	5*
		Female Socket 1/4" NP	Male Plug/ Female 1/4" NP	Union Adapter 1/4" NPT x 3/4" UNF	Male Plug w/Male 1/4" NPT (used when connecting Inlet Pressure Gauge)	Female Socket Ass. (used to connect Air-Supply Hose to Male Plug on Respirator)
Snap-Tite (AL)	C	66272	66274	69542	66273	455019
Snap-Tite (SST)	C	629673	629672	808358	629671	471778
Snap-Tite (BR)	C	630305	630307	69542	630306	471777
Hansen (SST)	A	628768	628208	808358	473502	471779
Hansen (BR)	D	630311	630313	69542	630312	471501
Foster (S)	B	628770	55716	69542	56549	467044
Foster (SST)	B	636459	636460	808358	-----	801016
Foster (BR)	A	629980	629981	69542	473501	470194
Schrader (S)	B	See Foster(S)	See Foster(S)	See Foster(S)	See Foster(S)	See Foster(S)
CEJN Locking (Chrome-Plated -BR)	E	631870	479026	69542	479020	479001
CEJN Locking (Chrome)	E	-----	479026	69542	479020	476956
Snap-Tite Locking (AL)	F	-----	479027	69542	-----	479032
Snap-Tite Locking (SST)	F	-----	479028	808358	479022	479033
Snap-Tite Locking (BR)	F	-----	479029	69542	479023	479034
Foster Locking (SST)	D	636473	637851	808358	-----	800805

† Fittings with the same letter code are interchangeable.

* Socket assy consists of socket from column 1 and brass union adapter P/N 69541 (3/4" female x 1/4" npt male). Exception: A;; Sst fittings must have SST Union P/N 808360.



Accessories

Approved Air-Supply Hose

MSA 3/8-inch ID air-supply hose is available in smooth, reinforced, lightweight polyvinylchloride (PVC); chemical-resistant black neoprene; or smooth, coiled nylon. MSA hose must be used to maintain PremAire System NIOSH/MSHA approvals.

Approved Air-Supply Hose		
Neoprene		
P/N	Length	Hose Coupling Material
455022	50 ft.	Brass
481080	50 ft.	Stainless Steel
455021	25 ft.	Brass
481079	25 ft.	Stainless Steel
455020	15 ft.	Brass
481078	15 ft.	Stainless Steel
481071	8 ft.	Brass
481077	8 ft.	Stainless Steel
PVC		
P/N	Length	Hose Coupling Material
484225	100 ft.	Brass
471513	50 ft.	Brass
481060	50 ft.	Stainless Steel
471512	25 ft.	Brass
481059	25 ft.	Stainless Steel
471511	15 ft.	Brass
481058	15 ft.	Stainless Steel
481051	8 ft.	Brass
481057	8 ft.	Stainless Steel
Dual-Supply Kit		
P/N	Length	Hose Coupling Material
474043	50 ft.	Brass
491515	25 ft.	Brass
491514	15 ft.	Brass
491513	8 ft.	Brass



Air-Supply Hose Temperature Ranges

Neoprene	-25° to 212° Fahrenheit
PVC	32° to 120° Fahrenheit
Nylon	0° to 160° Fahrenheit

Pressure Regulator

When the PremAire System is used with a plant air compressor system, the MSA pressure regulator reduces compressor pressure to the desired operating pressure. The regulator maintains pressure on the outlet side until readjusted for use with inlet pressure of up to 125 psig.

P/N	Description
66716	Pressure Regulator

Inlet Pressure Gauge:

MSA offers an inlet pressure gauge that enables a user to check pressure at the inlet of the MSA air-supply hose, thereby helping to ensure that air pressure is within the certified range.

The gauge is supplied with quick-disconnect fittings to accommodate your PremAire System.

P/N	Description
476734	With Snap-Tite fitting
476735	With Foster or Schrader fitting
476737	With Hansen fitting
492586	Inlet pressure gauge less quick-disconnect plug and less union adapter

Manifolds

Manifolds are required whenever two to four PremAire System respirators are connected to a single air source. MSA manifolds have quick-disconnect assemblies with automatic shutoff outlets.

P/N	Description
47370	Four-outlet Manifold Assembly with Foster Quick-Disconnects
84416	Two-outlet Manifold Assembly with Foster Quick-Disconnects
93931	Four-outlet Manifold Assembly with Snap-Tite Quick-Disconnects
486053	Two-outlet Manifold Assembly with Snap-Tite Quick-Disconnects
478601	Four-outlet Manifold Assembly less Quick-Disconnects
84418	Two-outlet Manifold Assembly less Quick-Disconnects



Air-line Filter

The MSA air-line filter provides high-efficiency filtration of compressed air lines. In operation, it removes a minimum of 99 percent of 0.3 micron and larger particulates, including dusts, mists, fumes, smoke, and petroleum vapors. It does not remove carbon monoxide. The air-line filter can be used at inlet pressure up to 125 psig. The pressure drop is one psig at a maximum rated air flow of 25 cubic feet per minute (CFM).



P/N	Description
81857	Air-line Filter
484923	Replacement Filter Kit

Air Cylinder Pressure Regulator

An air cylinder pressure regulator is a required accessory when air-line respirators operate from a cylinder. This dual-gauge regulator receives varying outlet pressure from the cylinder, reduces it, and regulates it to a constant pressure of approximately 80 psig, the optimum pressure for regulator operation.

P/N	Description
68858	Air Cylinder Pressure Regulator, dual-gauge, 0-3000 psig
633352	High-Pressure Air Cylinder Regulator, dual-gauge, 0-5500 psig



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.



P/N	Description
1000991	Confidence Plus Germicidal Cleaner

Optional Spectacle Kit

For use by workers who must wear corrective lenses, the spectacle kit can be easily inserted into Ultra Elite or Advantage 4000 Facepieces. The kit includes a wire support, rubber guide, and one pair of metal frame spectacles. Desired adjustment is obtained by moving the spectacles in and out of the rubber guide and by moving the rubber guide up and down the wire support. One size of spectacle frame is used with universal bridge corrective lenses that can be obtained from local sources. The spectacle kit may be worn in conjunction with a noseclip. The Advantage 4000 Facepiece frame requires S-7 shape and 44mm lens; Ultra Elite Facepiece frame requires S-7 shape and 46mm lens.



P/N	Description
804638	Ultra Elite Spectacle Kit (side wire support)
493581	Ultra Elite Spectacle Kit (center support)
10029298	Advantage 4000 Spectacle Kit

Lens Covers

Lens covers, available in a variety of types, provide a convenient way to add a layer of protection. The self-adhesive covers can be easily installed and removed when necessary. The tinted versions are intended for applications in direct sunlight.

P/N	Description
491500	Ultra Elite clear cover lens (25 per pack)
805456	Ultra Elite smoke-tinted cover lens (25 per pack)
10031542	Advantage 4000 clear cover lens (25 per pack)
10031543	Advantage 4000 smoke cover lens (25 per pack)

Welder's Adapter

For eye protection in welding applications where respiratory protection is required, a welder's adapter can be easily installed over an Ultravue® Facepiece lens. The clip-on style adapter can be easily removed if needed, whereas the integral adapter model is used in place of the facepiece lens. Both models are made of polycarbonate and feature a flip-up lens with large 4 v" x 5 w" (11.4 cm x 13.3 cm) vision area.

P/N	Description
806482	Clip-on Welder's Adapter for Ultra Elite Facepiece
10065326	Clip-on Welder's Adapter for Advantage 4100 Single Port Facepiece; with cover lens, less filter plate
10068601	Auto-Change Electronic Welding Lens
696095	Polycarbonate cover plate (4 1/2 x 5 1/4)
88379	Cover lens
486328	Welder's hood, Kevlar

Heat-Treated Rayfoe™ Filter Plates w/Cover Lens

P/N	Description
38346	Shade 6
38347	Shade 10
38277	Shade 12
38348	Shade 14

Approvals and Standards

The PremAire Supplied-Air Respirator System has received National Institute for Occupational Safety and Health (NIOSH) Certification for use in atmospheres not immediately dangerous to life or health (Non-IDLH)*. When equipped with the emergency escape cylinder option and Advantage 4000 or Ultra Elite pressure-demand Facepiece, the PremAire System is also approved for use in IDLH atmospheres. For NIOSH approval matrices, please visit our website at www.MSAnet.com.

Units are approved for use with an operating inlet pressure of 60-100 psig, and only when used with MSA air-supply hose. The PremAire System requires a source of compressed air conforming to at least Quality Verification Level (Grade) D Compressed Gas Association, Inc., Commodity Specification for Air, G-7.1, which is now ANSI (American National Standards Institute) Z86.1-1973.

** Not immediately dangerous to life or health is defined in 42 CFR Part 84 as any hazardous atmosphere which may produce physical discomfort immediately, chronic poisoning after repeated exposure, or acute adverse physiological symptoms after prolonged exposure.*

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.



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