



PremAire[®] Air-Supplied System

Advanced Air-Line Respirator



The **PremAire System** is a **Type-C supplied-air respirator** that provides unmatched flexibility in a supplied air respirator.

- Now approved with the G1 Facepiece which can be used to support a full respiratory program including Air-Line, SCBA, APR and PAPR.
- May be configured with an escape cylinder option that permits emergency escape from Immediately Dangerous to Life or Health (IDLH) atmospheres.
- Air Line-only configurations without escape cylinder available for non 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.



WE KNOW WHAT'S AT STAKE.

PremAire System Manifold

The Premaire System features a patented manifold for unmatched flexibility in an air-line system. Options include: a dual supply that lets users connect from one air source to another while maintaining continuous air flow, a vortex tube option to provide a cooling, and the ability to be configured with or without escape cylinder. Approved for use in IDLH conditions with the escape cylinder.



PremAire System Options

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.



PremAire System with Dual-Supply Option

Dual-supply capability allows users to connect from one pressurized air source to another without losing continuity of air flow. This allows workers station to station or through air locks without disrupting the air supply.



Complete PremAire System Assemblies

Part No.	Description
10249971	PremAire System with medium G1 Facepiece with rubber harness, with 5-minute aluminum cylinder, right hip mount with case
10249972	PremAire System w/Medium G1 Facepiece with rubber harness, with 10-minute aluminum cylinder, right hip mount with case
10055164	PremAire System with Firehawk Slide-To-Connect Ultra Elite, with 5-minute aluminum cylinder, right-hip model, with case
10045165	PremAire System with Firehawk Slide-To-Connect Ultra Elite, with 10-minute aluminum cylinder, right-hip model, with case

G1 Upgrade Kits for Premaire System

Part No.	Description
10249967	Premaire system G1 upgrade kit, 30" regulator hose, purge
10249968	Premaire system G1 upgrade kit, 42" regulator hose, purge
10249969	Premaire system G1 upgrade kit, 30" regulator hose, solid cover
10249970	Premaire system G1 upgrade kit, 42" regulator hose, solid cover

Note: any upgrade requires flow testing by an MSA Authorized CARE service center prior to return to service.

G1 Facepiece Options

Small	Medium	Large	Description
10188954	10188955	10188956	G1 Facepiece with 4-pt. polyester head harness
10156461	10156462	10156463	G1 Facepiece with rubber head harness
10156458	10156459	10156460	G1 Facepiece with 4-pt. Kevlar head harness
10161812	10161813	10161814	G1 Facepiece with 5-pt. Kevlar head harness

See G1 Facepiece Assemble to Order (ATO) matrix for additional options.

G1 Facepiece Accessories

Part No.	Description
10144231-SP	Single Port APR Adapter
10199720	Twin Port APR Adapter
10246693	G1 Lens Cover, clear
10246694	G1 Cover Lens, smoke
10144230	Spectacle Kit
805078	Quik-Check III Fit Test Adapter*
10056424	Advantage Fit Test Adapter**



G1 Facepiece

*Single port APR Adapter Required

**Twin port APR Adapter Required

Portable Air Supply

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.



PremAire System with Vortex Tube Option

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



Replacement Kits and Accessories

Part No.	Description
800696	Cylinder Kit w/fully-wound, carbon-fiber, 5-minute cylinder, for right hip
800706	Vortex Tube Kit with 6-inch hose, cool-only version
801012	Vortex Tube Kit with 12-inch hose, cool-only version
811940	PremAire System Air-Line Filter Kit
812217	TransportAire System assembly with cylinder carrier, regulator, regulator-to-hose adapter, and high-pressure Audi-Larm Audible Alarm
494030	Nylon web support belt
492827	Polyurethane-coated nylon support belt, black
802811	Nomex support belt

PremAire System Ordering Selection Matrix

<p>A Type PS Prem Aire System</p> <p>B Belt Assembly 1 Nylon 2 Urethane 3 Nomex</p> <p>C Escape Cylinders 0 None 1 5-min right hip carbon fiber 2 5-min left hip carbon fiber 3 5-min right hip aluminum 4 5-min left hip aluminum 5 10-Min right hip carbon fiber 6 10-min left hip carbon fiber 7 10-min right hip aluminum 8 10-min left hip aluminum</p> <p>D Dual-Supply 0 None 1 8" Hose less QD 2 15" Hose less QD</p> <p>E MMR Regulators ⁽²⁾ E Firehawk STC 30" solid cover F Firehawk STC 42" solid cover G Firehawk PTC 30" solid cover H Firehawk PTC 42" solid cover 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 N G1 Premaire Regulator, Solid, 30" O G1 Premaire Regulator, Solid, 42" P G1 Premaire Regulator, Purge, 30" Q G1 Premaire Regulator, Purge, 42" Notes: Must choose No By-Pass option when ordering a PremAire less escape cylinder. Note: Firehawk slide regulators not compatible with Advantage 4000 facepiece.</p>	<p>F Facepiece Type 0 None 1 Non-NFPA 2 NFPA Notes: NFPA facepiece is Ultra Elite (UE).</p> <p>G Facepiece 0 None 1 Ultra Elite hycar 2 Ultra Elite silicone E Advantage 4000, hycar, poly net harness F Advantage 4000, silicone, poly net head harness G Advantage 4000, hycar, rubber head harness H Advantage 4000, silicone, rubber head harness J Advantage 4000, hycar, Kevlar head harness K Advantage 4000, silicone, Kevlar head harness L G1 Rubber Head Harness M G1 Poly Head Harness N G1 4 PT Kevlar Harness P G1 5 PT Kevlar Harness</p> <p>H Facepiece Size 0 None S Small M Medium L Large</p> <p>I Nosecup 0 None (only if you have no facepiece) 1 UE-medium 2 UE-large</p>	<p>J Head Harness 0 None 1 Ultra Elite, Rubber 2 Ultra Elite, EZ-Don, small 3 Ultra Elite, EZ-Don, medium 4 Ultra Elite, EZ-Don, large 5 Ultra Elite, Speed-ON 6 Advantage 4000 rubber 7 Advantage 4000 poly net 8 Advantage 4000 Kevlar net 9 G1 Rubber A G1 Poly B G1 Kevlar 4PT C G1 Kevlar 5PT</p> <p>K Quick-Disconnect A None ⁽¹⁾ B Snap-Tite alum C Snap-Tite SST D Snap-Tite brass E Hansen SST F Hansen brass G Foster steel H Foster SST I Foster brass J Cejn chrome Notes: ⁽¹⁾ Unit requires use of a Quick-Disconnect to maintain approval. 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.</p> <p>L Case 0 None 1 Hard case 2 Soft case</p>	<p>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. An additional surcharge will be added to configurations that are classified as hazardous materials</p> <p>Key: ⁽¹⁾ 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.</p> <p>Note: G1 Facepiece selections will be supplied with G1 Regulator. Ultra Elite and Advantage 4000 facepiece selections will be supplied with Firehawk Regulator.</p>
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C-PS	PS																
	A	B	C	D	E	F	G	H	I	J	K	L		Qty			

PART NUMBER

Other Facepiece Options

Description	Small	Medium	Large
Ultra Elite Facepiece w/rubber head harness, Hycar	10037650	10037648	10037652
Ultra Elite Facepiece w/rubber head harness, silicone	10043417	10043413	10043431
Ultra Elite Facepiece w/Speed-ON® head harness, Hycar	10043419	10043415	10043433
Ultra Elite Facepiece w/Speed-ON® head harness, silicone	10043430	10043416	10043434
Advantage 4000 Facepiece w/rubber head harness, Hycar	10075911	10075905	10075917
Advantage 4000 Facepiece w/rubber head harness, silicone	10075910	10075904	10075916
Advantage 4000 Facepiece w/polyester net head harness, Hycar	10075915	10075909	10075921
Advantage 4000 Facepiece w/polyester net head harness, silicone	10075914	10075908	10075920



Ultra Elite Facepiece



Advantage 4000 Facepiece

Other Facepiece Accessories

Part No.	Description
804638	Ultra Elite Spectacle Kit (side wire support)
493581	Ultra Elite Spectacle Kit (center support)
10029298	Advantage 4000 Spectacle Kit
491500	Ultra Elite clear cover lens (25/pack)
805456	Ultra Elite smoke-tinted cover lens (25/pack)
10031542	Advantage 4000 clear cover lens (25/pack)
10031543	Advantage 4000 smoke cover lens (25/pack)

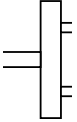






Welder's Adapters

Part No.	Description
806482	Clip-on Welder's Adapter for Ultra Elite Facepiece
10065326	Clip-on Welder's Adapter for Advantage 4100 Single Port Facepiece; w/cover lens, less filter plate

Quick-Disconnects for Air-Line Respirators and Air-Supplied Hoods




Standard Air-Line Setup

Note: Respirator approvals include all fittings and hoses from the respirator up to, but not including, the manifold/point of attachment to the air source. Breathing air couplings and fittings must be incompatible with other non-respirable air or other gas systems.

Manifold/ Point of Attachment	QD 1 Female Socket 1/4" NPT	QD 2 Male Plug w/Female 1/4" NPT	QD 3 Union Adapter 1/4" NPT x 3/4" UNF	Air-Line Hose	QD 4 Female Socket Assembly	Respirator
 <p>Dual outlet shown. Images not to scale.</p>						
Quick-Disconnects & Adapters (AL) = Aluminum (S) = Steel (SST) = Stainless Steel (BR) = Brass Interchangeability A B C D E F <i>Fittings with the same letter code are interchangeable</i>	Used at manifold or point of attachment to air source.	Plugs into the female socket (QD 1) at the manifold or point of attachment. Also installed on the respirator to plug into socket assembly (QD 4).	Used at the end of the air line hose to connect to the male plug (QD 2). Teflon tape used to attach to the male plug.	See air-line hose information on the following page. A maximum total 300' and 6 hose sections is allowed on most pressure demand and high pressure constant flow setups.	Used to connect air-supply hose to male plug (QD 2) on respirator.	Male plug (QD 2) connects respirator to female socket assembly.
Snap-Tite (AL) C	66272	66274	69542		455019	
Snap-Tite (SST) C	629673	629672	808358		471778	
Snap-Tite (BR) C	630305	630307	69542		471777	
Hansen (SST) A	628768	628208	808358		471779	
Hansen (BR) D	630311	630313	69542		471501	
Foster (S) B	628770	55716	69542		467044	
Foster (SST) B	636459	636460	808358		801016	
Foster (BR) A	629980	629981	69542		470194	
Schrader (S) B	SEE FOSTER (S)	SEE FOSTER (S)	SEE FOSTER (S)		SEE FOSTER (S)	
CEJN Locking (Chrome-Plated BR) E	631870	479026	69542		479001	
CEJN Locking (Chrome) E	—	479026	69542		476956	
Snap-Tite Locking (AL) F	—	479027	69542		479032	
Snap-Tite Locking (SST) F	—	479028	808358		479033	
Snap-Tite Locking (BR) F	—	479029	69542		479034	
Foster Locking (SST) D	636473	637851	808358		800805	

Approved Air-Supply Hose (3/8" ID)

Must be used with respirators to maintain NIOSH certifications

	Temperature Ranges	Brass Hose Coupling	Stainless Steel Hose Coupling	Length
Neoprene Air-Supply Hose 	-25° to 212°F	481071	481077	8 ft.
		455020	481078	15 ft.
		455021	481079	25 ft.
		455022	481080	50 ft.
PVC Air-Supply Hose 	32° to 120°F	481051	481057	8 ft.
		471511	481058	15 ft.
		471512	481059	25 ft.
		471513	481060	50 ft.
		484225	—	100 ft.
Coiled Nylon Air-Supply Hose 	0° to 160°F	491513	—	8 ft.
		491514	—	15 ft.
		491515	—	25 ft.
		474043	—	50 ft.

Locking Quick-Disconnects for Air-Supply Hose

Part No.	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 3/4" 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 3/4" 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 3/4" NPT) quick-disconnect plug (SST)

Note: Do not use non-locking quick-disconnects to interconnect air supply hoses. Locking quick-disconnects may be used or hoses may be threaded together directly.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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