



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Replacement SCBA System		
Presenter & Title:	Michael K. Antenore, Fire Chief		
Date:	June 3, 2024		
Please Check Appropriate Box:			
<input type="checkbox"/>	Committee of the Whole Meeting	<input type="checkbox"/>	Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting	<input type="checkbox"/>	Special City Council Meeting
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	Other -
Associated Strategic Plan Goal/Objective: EMS-II/III			
Estimated Cost: \$ 429,315	Budgeted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>If "Other Funding," please explain how the item will be funded:</i>			
Executive Summary:			
<p>This requested purchase is to replace the fleet of SCBA (Self Contained Breathing Apparatus) that are used during firefighting and various other rescue activities that have IDLH (Immediately Dangerous To Life or Health) compromised breathing atmospheres.</p> <p>With the change of NFPA standards we can no longer use rescue breathing in an emergency due to the fact that our SCBA units are not compatible with our surrounding communities newer units.</p> <p>We also have older SCBA units that are no longer serviceable, numerous air bottles that are reaching their end of life and significant reliability issues that are driving increased maintenance costs.</p> <p>MSA provided the lowest cost and best technology solution on the approved vendor quote list. Air One Equipment, Inc. the exclusive MSA dealer for this geography.</p>			
Attachments: <i>(please list)</i>			
<ul style="list-style-type: none"> • Geneva Fire Department – SCBA Quote Summary • Resolution 			
Voting Requirements:			
<p><i>This motion requires a simple majority of affirmative votes for passage. (City Council Only)</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the alderpersons has resulted in a tie; (b) when one half of the alderpersons elected have voted in favor of an ordinance, resolution, or motion even though there is no tie vote; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.</i></p>			
Recommendation / Suggested Action: <i>(how the item should be listed on agenda)</i>			
Recommend Approval of Resolution Authorizing The Purchase Of Replacement SCBA System From Air One Equipment, Inc. through the HGAC (Houston-Galveston Area Council) buying consortium.			

Replacement SCBA System

Geneva Fire Department

Quote Summary

		<u>Total</u>
Air One Equipment, Inc.	MSA G1	\$429,315
Municipal Emergency Services	Scott X3	\$661,699
Municipal Emergency Services	Scott X3 w/radio direct interface	\$749,260

RESOLUTION NO. 2024-61

**RESOLUTION AUTHORIZING THE PURCHASE OF
REPLACEMENT SCBA SYSTEM**

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS, as follows:

SECTION 1: That the City Administrator is hereby authorized to execute, on behalf of the City of Geneva, the purchase of a MSA G1 SCBA system from Air One Equipment, Inc. (Exhibit A) in the amount of \$429,315.00 for use by the Fire Department.

SECTION 2: This Resolution shall become effective from and after its passage as in accordance with law.

PASSED by the City Council of the City of Geneva, Kane County, Illinois, this ____ day of June 2024.

AYES: ____ **NAYS:** ____ **ABSENT:** ____ **ABSTAINING:** ____ **HOLDING OFFICE:** 10

APPROVED by me as Mayor of the City of Geneva, Kane County, Illinois this ____ day of June, 2024.

Mayor

ATTEST:

City Clerk



Air One Equipment, Inc.

360 Production Drive, South Elgin IL 60177
 Telephone: (847) 289-9000 Fax: (847) 289-9001
 website: www.aoe.net

**G1 SCBA
 QUOTATION**

FOR: GENEVA FIRE DEPARTMENT
 200 EASTSIDE DR
 GENEVA, IL 60134

DATE: 5/23/2024

ATTN:

REF: G1 2018 EDITION SCBA

Qty	Part Number	DESCRIPTION:	Each	Extended
44	* ATO *	MSA G1 FIRE SERVICE SCBA; 2018 EDITION; TO INCLUDE: 4500 PSI, QC REMOTE CONNECTION, STANDARD HARNESS WITH REMOVABLE SHOULDER & CHEST STRAPS, METAL CYLINDER BAND, ADJUSTABLE SWIVELING LUMBAR PAD, SOLID COVER REGULATOR UNIVERSAL RIT CONNECTION, HEADS UP DISPLAY SYSTEM, INTEGRATED VOICE AMPLIFIER SYSTEM, RIGHT SHOULDER PASS ALARM, and RECHARGEABLE BATTERY PACK	\$5,595.00	\$246,180.00
6	* ATO *	MSA G1 HAZMAT SCBA; SAME AS ABOVE BUT LESS PASS DEVICE	\$5,595.00	\$33,570.00
78	10175707	30-MINUTE (4500PSI) CARBON CYLINDERS W/QUICK CONNECT	\$895.00	\$69,810.00
13	10175710	60-MINUTE (4500PSI) CARBON CYLINDERS W/QUICK CONNECT	\$1,095.00	\$14,235.00
SCBA UPGRADE OPTIONS:				
44	* EXT II *	MSA EXTENDAIRE II UEBSS/BUDDY BREATHER W/RESCUE HOSE	\$550.00	\$24,200.00
PERSONNEL FACEPIECES				
78	10156459	MSA G1 FACEPIECE; NFPA 2018 EDITION; WITH 4-PT HARNESS	\$375.00	\$29,250.00
G1 SCBA ACCESSORIES				
2	10158385	G1 RECHARGEABLE BATTERY 6-BANK CHARGER	\$745.00	\$1,490.00
12	10148741-SP	G1 RECHARGEABLE BATTERY	\$375.00	\$4,500.00
4	10206313	G1 RIT SYSTEM: QF & UEBSS HOSE, REGULATOR, FACEPIECE,	\$4,250.00	\$17,000.00
4	RBL303	TRUE NORTH L3 RIT BACK	\$300.00	\$1,200.00
8	10162403	QUICK CONNECT FILL STATION ADAPTER	\$450.00	\$3,600.00
32	10083875	G1 DATA TAGS	\$40.00	\$1,280.00
10	G1 STRAPS	G1 REMOVEABLE SHOULDER STRAP KIT	\$550.00	\$5,500.00
-1	TRADE-IN	TRADE-IN EXISTING SCBA WITH CYLINDERS AND FACEPIECE	\$10,000.00	-\$10,000.00
-50	FDIC PROMO	FDIC 2024 PROMO-MUST BE PURCHASED BEFORE JUNE 30TH 2024	\$250.00	-\$12,500.00
Total of All Equipment:				\$429,315.00

NOTES:

1. ALL SCBA MEET NFPA 1981 & 1982 - 2018 EDITION.
2. ALL SCBA HAVE MSA 15 YEAR WARRANTY.
3. INCLUDES IN-SERVICE TRAINING
4. QUOTE VALID FOR 60 DAYS FROM DATE LISTED ABOVE

Thank You!

Estimated Delivery:

Martin J. Svihra
 Director of Operations

MSA G1 SCBA

109
MSA
The Safety Company



WHEN YOU GO IN, WE GO IN WITH YOU.

Fire Service **Equipment**

Products for today that drive the future

As your emergency responder duties expand, as well as your exposure to hazards, MSA continues to provide more emergency response products to exceed your expectations and requirements. MSA supports firefighters and recognizes your role as the front line of protecting others. We are constantly improving products that you have come to rely upon as the best in the industry, to make your job safer and easier. For your protection, you can count on MSA for the most technologically advanced products, and for the best support and training assistance.

We are committed to you

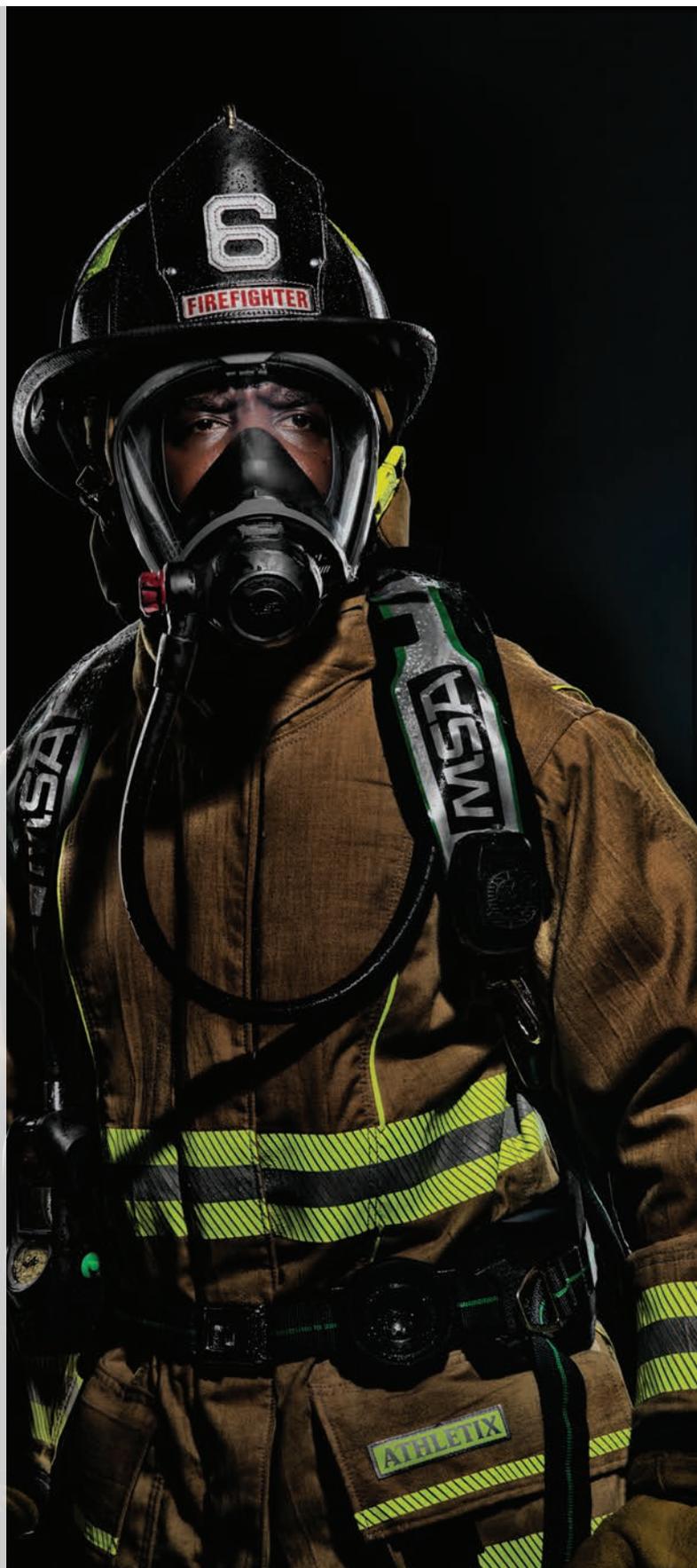
Working closely with firefighters and rescue teams for over 100 years, MSA's premier focus continues to be the fire service for product innovations, improvements and service. From our Cairns® Fire Helmets, Evolution® Series Thermal Imaging Cameras and breakthrough ALTAIR® Gas Detectors, to the most advanced, safety driven breathing apparatus we've ever produced, the G1 SCBA, you can rely upon MSA to offer the very best in personal protective equipment. Your options in gas detection instruments and fall protection/rescue systems are more numerous and better than ever. Our MSA-U® Training Center online training tool provides in-depth product training with team-tracking capability that allows 24/7 instruction for your entire squad. And now Globe, the world's leading maker of innovative protective clothing for firefighters, is part of MSA. Equipping firefighters with the highest level of protection—head to toe, Cairns helmet to Globe boots—no one is as committed to your health and safety as we are.

Our people set us apart from the competition

MSA's SCBA are manufactured at our award-winning Murrysville, PA facility. Whether your needs include the revolutionary G1 SCBA, an Evolution® TIC from our Cranberry, PA plant or a Cairns® Helmet made in Jacksonville, NC, you can be sure that each of them has been made with the dedicated care and skill of an MSA associate whose average time on the job of 18 years means consistent quality, time after time.

Assistance is everywhere

Your personalized service starts locally with your trained MSA-authorized distributor and MSA's fire service field sales managers. To locate your nearest MSA fire service distributor, or find an answer to an urgent technical question, our award-winning, dedicated team of customer service professionals is ready to help, as they understand your hazards as well as regulatory compliance. Contact them at 1-877-MSA-FIRE or visit us at www.MSAFIRE.com.





FIND THE HOT SPOTS. AND THE HEARTBEATS.

MSA provides personal thermal imaging to every firefighter—from 360 to rescue; egress to overhaul.

The FIRST and ONLY TIC Integrated Directly into the SCBA

- No additional bulky equipment added to your facepiece or hanging from your gear
- Compatible with all G1 SCBA via simple field upgrade
- Powered by the G1 SCBA's single integrated power source—never check multiple battery locations again
- Single button functionality allows for simple, intuitive use

Take Advantage of the Latest Technology

- Lightweight—only adds 4.2 oz. compared to standard MSA G1 Control Module
- Up to five user-selectable palettes—10+ additional palettes available via MSA A2 Software
- 220 x 176 resolution ensures crystal clear images
- Compliant to the 2018 version of the NFPA 1981 and 1982 standards
- A full five-year warranty on thermal imager—Additional 15 years extended warranties available



3

The MSA G1 SCBA stands out from the crowd.

1. FACEPIECE

- Open port design with cross-contamination protection
- Comfortable and easy to use, with low breathing resistance on and off air
- Zero electronics, reducing weight, snag hazards and cost

2. CONTROL

- Integrated Thermal Imaging Camera (TIC) allows firefighter to see within dark, smoke-filled environments
- Five user-selectable palettes—10+ additional programmable palettes available via MSA A2 Software
- Compatible with all G1 SCBA via simple field upgrade
- Control module provides both color LCD and analog displays
- Display automatically turns on when control module is lifted into viewing position
- No matter which button is pressed, necessary information displays
- Improved visibility through buddy lights

3. SITUATIONAL AWARENESS

- Wide field of view through the G1 Facepiece
- Seven three-stage buddy lights providing 360-degree visibility of pressure status
- Highly reflective material on shoulder straps and cylinder band
- Optional integrated TIC provides visibility when it is needed most

4. INFORMATION

- HUD provides more information than ever before and can be customized to meet your SOP; cylinder pressure, battery status, evacuation (optional), and so much more

5. COMMUNICATIONS

- Loud and clear communications are included with every G1 SCBA
- Intelligently removes background and inhalation noise, helping your commands to be heard





6. COMFORT

- Swiveling, adjustable lumbar pad properly positions SCBA weight
- Improved comfort, balance, fit

7. MSA G1 5500 SCBA

Staying at the forefront of safety means constantly evolving to meet the ever-changing demands you face each day on the job. Helping meet these demands MSA's tried-and-trusted G1 SCBA now comes available in a 5500 psig operating system. The MSA G1 offers our lowest profile, most comfortable, streamlined, balanced and configurable SCBA with the lightest weight 5500 psi cylinders on the market today

8. POWER

- Single power source
- Uses alkaline or rechargeable battery
- Eliminates the need to maintain multiple battery sizes or multiple battery locations
- Low cost of ownership

9. READY FOR THE FUTURE

- Bluetooth connectivity, RFID, Near Field Communication (NFC), long-range radio
- Quickly update the G1 SCBA with the latest advancements through Bluetooth technology, ensuring the SCBA you buy today can easily adapt to meet your needs far into the future

10. BUILT JUST FOR YOU

- Control module and HUD display required information; easily customized to meet your existing standard operating procedure
- Modular designs allows for quick component change

MSA G1 SCBA Components

About FACE.

The G1 Facepiece was designed without electronic components to minimize weight, reduce your stress and fatigue and improve your overall performance level. There are **no** electronic components on the outside of the facepiece that may result in snag and entanglement hazards. What's more, by eliminating costly electronic components, the price is reduced substantially, allowing personal-issue facepieces to be a cost-effective measure. Cross-contamination prevents the contamination of shared mask-mounted regulators. But MSA didn't stop there. The MSA G1 SCBA is also equipped with a speaking diaphragm to increase speech clarity while off air.

Taking the preferred features of the Ultra Elite Facepiece - Comfort, Field of View, Superior Communications, and Fit, we've taken the G1 Facepiece to the next level with an Open-Port that provides low breathing resistance in standby modes.

The G1 Facepiece can help you to conserve energy for when you need it most.



Be Heard.

Electronic Voice Amplification Shouldn't Be Optional.

Every MSA G1 SCBA is equipped with electronic voice amplification because high quality fireground communications shouldn't be optional. With patent-pending design, dual microphones integrated into the regulator eliminate the Darth Vader-like inhalation sound. This unique feature automatically activates and shuts down with the unit. Shoulder strap-mounted speaker module provides loud and clear communications from the regulator microphone while maintaining low profile to aid in reducing snag points. Every MSA G1 SCBA is equipped with this cutting edge technology.

Designed to fit YOUR needs.

Cutting edge technology. The MSA G1 SCBA with Integrated TIC meets and exceeds your demands, providing more functionality and safety than ever before. G1 Control Module integrates TIC technology to eliminate the need to carry more gear while adding speed and effectiveness. The iTIC draws power from G1 Power Module—no separate battery is necessary. Module offers both analog and color digital LCD displays to make certain that your status is available at all times. Auto-start motion control mechanism built into the control module intuitively provides the information you need when you need it. Adding yet another layer to ease-of-use: no matter which button is pressed, your information displays.

Highly configurable and customizable. The MSA G1 SCBA's user-selectable configurations are an industry first: pressure, time remaining calculation, breathing time, temperature (the ability to set your own temperature alarm), and pressure drop (to alert you to leaks, either primary or secondary). What's more, the control module and HUD can be programmed to display information required by your particular specification. But best of all, electronics can be adjusted to YOUR needs. The MSA G1 SCBA provides the ability to configure this device to follow any standard operating procedure, with alarm settings, lights and information provided on the control module. The MSA G1 SCBA...designed for the flexibility you need!



Heads up.

Internal HUD display. No facepiece electronics? It's not only possible, it's here. By placing electronics that power the heads up display within the regulator, MSA has effectively reduced weight, profile, pairing, and cross talk. The HUD is inside the facepiece, so external contaminants cannot block the view and vital displayed relayed information. This design means that you no longer have to buy HUDs for each facepiece, reducing costs and maintenance. By using revolutionary light pipes, the MSA G1 SCBA heads up display is clear and simple to understand; it's a HUD system made easy!



Always in Demand.

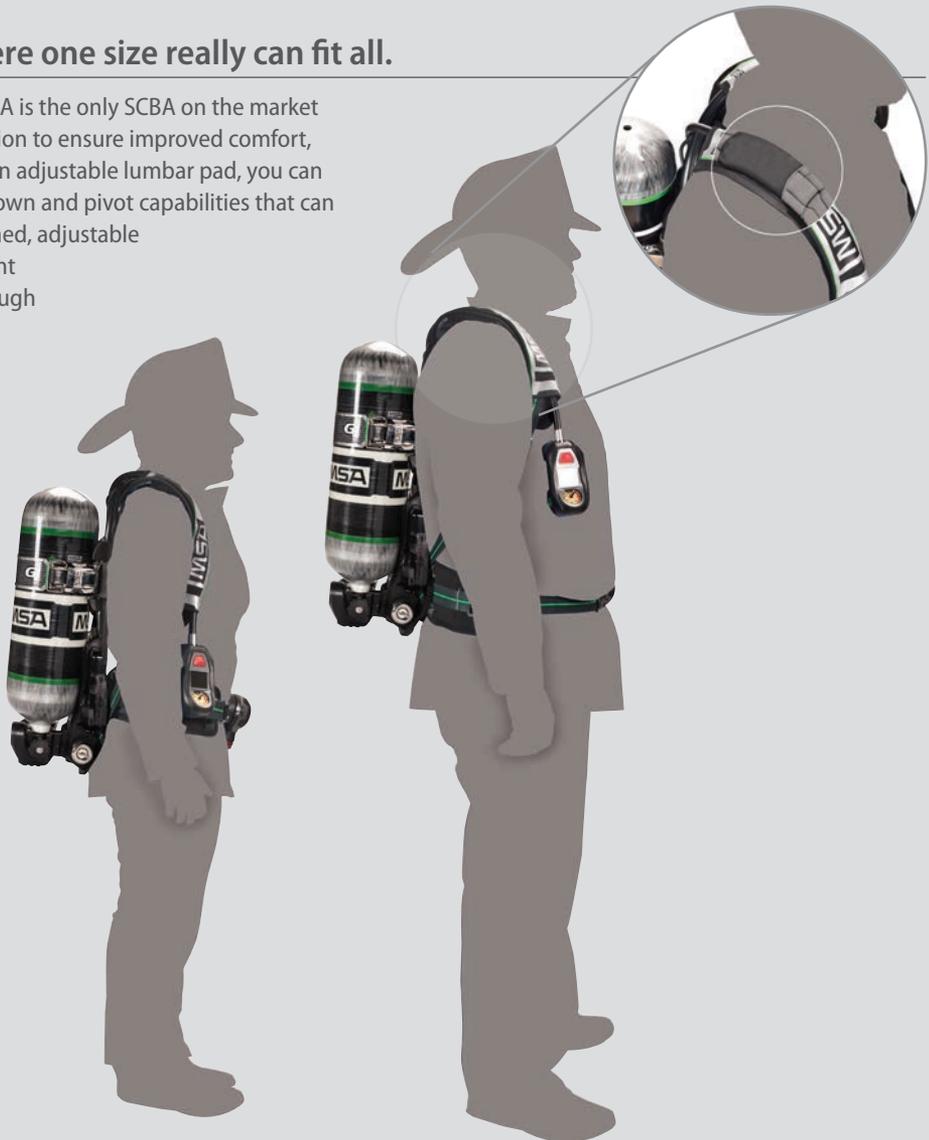
G1 Mask-Mounted Regulator. The G1 Regulator houses easy-to-operate heads up display and communications, yet is the smallest and lightest regulator available. The G1 Regulator has an optional purge cover that can be used to start air flow during emergency situations. The G1 Regulator can also be shut off and removed from the mask with one simple action!

The G1 Regulator is always in DEMAND!



Finally, an SCBA where one size really can fit all.

Ergonomics. The MSA G1 SCBA is the only SCBA on the market that offers harness customization to ensure improved comfort, balance and fit. By providing an adjustable lumbar pad, you can have a tailored unit with up/down and pivot capabilities that can actually move with you. Widened, adjustable shoulder straps enhance weight distribution and comfort. Through use of interlocking shoulder straps and strategically-placed friction pads, the MSA G1 SCBA provides increased fit and stability while allowing for easy donning and doffing. The G1 Control Module, G1 Regulator and G1 Speaker Module can be configured on either shoulder, easily integrating into any standard operating procedure.



The Power of One.

Central Power System. With only one centralized power source, you can use either alkaline or an industry-first rechargeable battery. As the ONLY manufacturer to offer rechargeable batteries, we've taken SCBA protection to a whole new level — finally, an SCBA that doesn't require multiple battery sizes! No need to manage battery types, compartments and change-outs, resulting in lower cost of ownership.



Make a Connection.

Pressure Reducer. Designed to work with quick-connect or CGA threaded cylinders, there's a connection to meet your needs. Adding to this flexibility are available direct and remote quick-connect attachment options to enable effortless cylinder change-outs. Pressure reducer accessory ports allow for future upgrades, including the high pressure Quick-Fill® System. The MSA G1 SCBA is available in both quick-connect and threaded-connection options. With minimal parts, you can easily upgrade from one option to the other! All in all, this unit provides each user with many choices, all of which result in lower cost of ownership.

When Air is Low, Seconds Matter.

Universal Air Connection (UAC). When air is low and you must access the UAC for emergency purposes, seconds matter. That's why MSA invented the patent-pending RIT light to shine a bright white LED on the UAC connection, making it easier to find and connect to a rescue air source. The primary UAC illuminates when end of service time indicator (EOSTI) reaches 35%.



MSA G1 SCBA Integrated Technology for Future Expansion



Find the Hot Spots. And the Heartbeats.

The MSA G1 SCBA with Integrated Thermal Imaging Camera provides EVERY firefighter with the ability to see within dark and smoke-filled environments, aiding in your operation's speed and effectiveness from the initial 360, to working the fire, overhaul and rescue. This sight is provided through a thermal imaging camera that is integrated into the G1 SCBA Control Module, eliminating the need to carry additional equipment and the concern of snag hazards.

- Compatible with all G1 SCBA via simple field upgrade
- Powered by the G1 SCBA single integrated power source – never check multiple batteries again
- Single button functionality allows for simple, intuitive use
- Lightweight - Adds only 4.2 oz. as compared to standard G1 Control Module
- Up to five user-selectable palettes
 - 10+ additional palettes available via MSA A2 Software
- 220 x 176 display ensures crystal clear images

A Faster Responder

Conditions faced by firefighters on a daily basis have changed dramatically through the years. The MSA G1 SCBA is designed with technology to drive firefighting into the future. Use of Bluetooth, Radio-Frequency Identification (RFID), Near Field Communication (NFC), and long-range capability allows for fast and easy integration of current and future technologies, providing firefighters with the latest tools available to get their job done.

- MSA G1 SCBA Bluetooth module uses audio and data channels to communicate with Motorola APX and MSA ALTAIR 5X Detectors with PID. Use of the same Bluetooth connection lets users connect to the G1 SCBA via MSA A2 Software for custom configuration to your department's standard operating procedures.
- RFID reader/writer stores comprehensive tag information and enables pairing with Bluetooth devices. Incorporated Bluetooth provides data link capability for SCBA data log retrieval and electronics troubleshooting.
- Long-range radio communication provides incident command with specific personnel information through MSA A2 Software.



- Bluetooth link status
- Long-range radio status
- Configurable display

MSA G1 5500 SCBA

Staying at the forefront of safety means constantly evolving to meet the ever-changing demands you face each day on the job. Helping meet these demands MSA's tried-and-trusted G1 SCBA now comes available in a 5500 psig operating system. The MSA G1 offers our lowest profile, most comfortable, streamlined, balanced and configurable SCBA with the lightest weight 5500 psi cylinders on the market today, providing its users:

- Reduced stress and fatigue
- Increased maneuverability in tight spaces, reducing your chance of getting snagged, improving your mobility, and keeping you safer in dangerous environments
- 30-, 45-, or 60-minute duration cylinders allows you to keep the same operating system, while reducing weight, profile, additional training time and overall expenses.



MSA G1 SCBA Accessories

MSA G1 SCBA Rechargeable Battery

MSA offers the first NIOSH-approved and NFPA-compliant SCBA platform to provide a rechargeable battery, eliminating the need for disposable replacement batteries. Portable and compact rapid charger can charge up to six batteries at once; batteries can reach full charge in just six hours.

- Reduced cost of ownership, never waste money on disposable batteries
- No need for multiple battery sizes in multiple locations
- Never waste time on alkaline battery replacement
- Single source powers entire SCBA
- Save 1/2 lb. when compared to alkaline battery pack
- Rapid charging with available smart charger

Ordering Information

Part Number	Description
10148741-SP	MSA G1 Rechargeable Battery*
10158385	MSA G1 Smart Charger

*Charger not included



The Quick-Fill System

The Quick-Fill System lets MSA air mask users refill and transfill air cylinders* while SCBA is worn, without removing the air cylinder—even in IDLH atmospheres. Use this MSA option to:

- Fill SCBA cylinder from a mobile compressor or cascade system in less than a minute.
- Transfill between two cylinders, providing emergency breathing system.*
- Extend air supply over longer durations, using a remote compressed-air source.

Air masks compliant to recent NFPA standards have Quick-Fill System URC fitting located at the Audi-Larm Audible Alarm warning device. Quick-Fill System hose with quick-disconnect connects air source to adapter for air transfer. See Bulletin 0105-92-MC for a Quick-Fill System Q&A.



Ordering Information

QUICK-FILL SYSTEM REPLACEMENT	10156465	Waist-mounted Quick-Fill System for MSA G1 SCBA
	10156467	Replacement Quick-Fill System pouch for MSA G1 SCBA
	10156468	3-ft. Quick-Fill System hose in pouch for MSA G1 SCBA

	25-ft.	12-ft.	10-ft.	8-ft.	6-ft.	3-ft.	
QUICK-FILL SYSTEM HOSES	485332	802690	802689	802688	802687	485331	FQD x FQD *
	487907	802677	802675	802673	802671	492796	FQD x CGA-347 outlet
	487909	802685	802683	802681	802679	487427	FQD x CGA-347 CN
	487906	802704	802703	802702	802701	802705	FQD x SAE-4
	487908	802678	802676	802674	802672	492797	FQD x CGA-346 outlet
	487910	802686	802684	802682	802680	487428	FQD x CGA-346 CN

* SCBA to SCBA Transfilling is not available with the 5500 psig operating system 25-ft. lengths are stocked; other custom lengths are available on special material basis. All SAE fittings are for high-pressure service. Female quick-disconnect fittings have dust covers.

MSA G1 ExtendAire™ II System

MSA G1 ExtendAire II System is a Universal Emergency Breathing Supply System (UEBSS) accessory that uses intermediate-pressure air to provide firefighters with emergency breathing air by allowing firefighters to quickly and easily interconnect to fellow firefighter’s air supply. System integrates into G1 SCBA, providing unrestricted mobility and easy access during emergency situations. Locking quick-connects with integrated check valve prevent contamination of breathing air pathway by ambient atmosphere.

G1 ExtendAire II System features integrated rescue hose and manifold assembly that uses both male and female quick-connect fittings, and stows in low-profile pouch that mounts on carrier assembly.

G1 ExtendAire II System is NIOSH-approved and NFPA 1981-2018 edition-compliant.



Ordering Information

EXTENDAIRE II SYSTEM	10205767	ExtendAire II System Conversion Kit for G1 SCBA, UEBSS, 2018 ed.
	10203820	Replacement pouch for G1 ExtendAire II System, UEBSS, 2018 ed.
	10156464	ExtendAire II System Conversion Kit for G1 SCBA, 2013 ed.
	10156466-SP	Replacement pouch for G1 ExtendAire II System, 2013 ed.

MSA G1 RIT Systems

The G1 RIT System has everything needed for RIT response. Internal pneumatics include G1 RIT System quick-connect pressure reducer that mounts directly onto user-supplied SCBA cylinder. Available in 2216, 4500, and 5500 psi operating pressures, cylinders are sold separately.

G1 RIT System includes:

- Six-foot high pressure supply line that terminates with female Quick-Fill System fitting.

- Six-foot intermediate pressure supply line that terminates with ExtendAire II System manifold assembly.
- Quick-connect second-stage G1 MMR.
- Remote external gauge for easy cylinder pressure readings.
- Medium size G1 Facepiece with four-point Speed-ON® Head Harness.
- URC fitting on G1 RIT System pressure reducer that allows for interconnection of G1 RIT Systems.

Ordering Information

Part Numbers	Operating Pressure	Description
10206310	2216	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (UEBSS, 2018 ed.), remote gauge, URC, Quick-Connect
10169710	2216	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (2013 ed.), remote gauge, URC, Quick-Connect
10206311	4500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (UEBSS, 2018 ed.), remote gauge, URC, Thread Connect
10206313	4500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (UEBSS, 2018 ed.), remote gauge, URC, Quick-Connect
10169711	4500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (2013 ed.), remote gauge, URC, Quick-Connect
10192465	4500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (2013 ed.), remote gauge, URC, Thread Connect
10206312	5500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (UEBSS, 2018 ed.), remote gauge, URC, Quick-Connect
10197179	5500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (2013 ed.), remote gauge, URC, Quick-Connect

Note: This RIT system does NOT include cylinder. Please see cylinder ordering information.

G1 RescueAire® II System

The MSA G1 RescueAire II System for Rapid Intervention Teams (RITs) provides firefighters with emergency breathing air, including air supply to trapped firefighters wearing SCBA with compatible system(s). Built for extreme fire service conditions, G1 RescueAire II System offers two operating pressures, 2216 and 4500 psi. Optional-use shoulder strap provides hands-free carrying.

System incorporates G1 Regulator; RIT teams can provide air to downed firefighter wearing G1 Facepiece. G1 Regulator connects directly to G1 Facepiece for maximum rescue capability, supported by flame and heat-resistant carrying harness of Nomex and Kevlar materials.

G1 RescueAire II System includes:

- SuperLite® Cylinder
- 36" Quick-Fill System EBS Connection
- ExtendAire System EBS Connection
- G1 PR-14 Pressure Reducer
- G1 Regulator
- Carrying harness with adjustable shoulder strap
- Audi-Larm™ Audible Alarm low pressure warning device



Ordering Information

Part Numbers	Description
10161130	RescueAire II System, 4500, 60-Min Cylinder
10161142	RescueAire II System, 4500, Less Cylinder
10161141	RescueAire II System, 2216, 30-Min Cylinder
10161143	RescueAire II System, 2216, Less Cylinder

MSA A2 Monitoring Software

MSA A2 Software offers the ability to customize your SCBA to meet your SOP, analyze use data and reliably enhance firefighter safety and accountability on the fire scene. Software monitors firefighter status remotely from incident command. In-depth reporting capabilities include data log search for incident reports by date and/or alarm type; reports can be exported, filtered, printed, and more. Users can also retrieve event logs for any recorded incidents.

- Software provides the ability to configure alarm, control module, accountability, speaker module, and HUD settings.
- MSA G1 SCBA stores 25 hours-of-use data; MSA A2 Software allows viewing of incident date, duration, air used, alarm status, and more.
- Tag creation allows G1 SCBA customization to meet your needs and track the location of each component. Incident event logs include date, time, duration, incident number, dispatch center number, firefighter name, firefighter team, PASS device serial number, time firefighter went on-air, any event recorded, and pressure remaining when event occurred.



MSA Rescue Belt II System for MSA G1 SCBA

MSA's innovative device for emergency egress, the Rescue Belt II System for the G1 SCBA, is an integrated personal escape system that allows firefighters to rappel to safety should they become trapped in a building's upper level. G1 Rescue Belt II System is NFPA 1983-certified for use as a personal escape system for emergency escape when installed on MSA-approved air masks. Device can also be used as a standalone product when not installed on an air mask. The Rescue Belt II System can be ordered as an MSA G1 SCBA option or as an individually-sold component for upgrade of your existing MSA G1 SCBA.

Key Features

- Ergonomically-contoured Ara-Shield rescue belt pouch stores:
- 50-ft. FireTech 32 rescue rope.
- Auto-locking Sterling F4 Descender.
- Choice of Crosby, Lightning, Lightning GT hook, or carabiner.



Rope	Connectors			
				
	Crosby hook	Carabiner	Lightning hook	Lightning GT hook
50-ft. FireTech 32	10173088	10173089	10173090	10173101
50-ft. MSA SafeTech	10173102	10173103	10173104	10173105

MSA G1 SCBA Cylinders

MSA G1 SCBA Cylinders for Threaded Remote Connection

Cylinder Pressure	Cylinder Duration	Connection Type	Air	Less Air
2216 psig	30-minute	Threaded	10156422-SP	10156431-SP
4500 psig	30-minute	Threaded	10156423-SP	10156432-SP
4500 psig	45-minute LP ¹	Threaded	10156424-SP	10156433-SP
4500 psig	45-minute	Threaded	10156425-SP	10156434-SP
4500 psig	60-minute	Threaded	10156426-SP	10156435-SP
5500 psig	30-minute	Threaded	10185508	10185602
5500 psig	45-minute	Threaded	10185509	10185603
5500 psig	60-minute	Threaded	10185510	10185604

¹Low profile version of the 45-minute, 4500 psig cylinder



Threaded remote connection

MSA G1 SCBA Cylinders for Quick-Connect Remote Connection

Cylinder Pressure	Cylinder Duration	Connection Type	Air	Less Air
2216 psig	30-minute	Quick-connect	10175706	10175711
4500 psig	30-minute	Quick-connect	10175707	10175712
4500 psig	45-minute LP ²	Quick-connect	10175708	10175713
4500 psig	45-minute	Quick-connect	10175709	10175714
4500 psig	60-minute	Quick-connect	10175710	10175715
5500 psig	30-minute	Quick-connect	10181628	10181708
5500 psig	45-minute	Quick-connect	10181629	10181709
5500 psig	60-minute	Quick-connect	10181630	10181710

²Low profile version of the 45-minute, 4500 psig cylinder

PLEASE NOTE: Quick-connect cylinder adapter must be ordered for each cylinder separately.



Quick-connect remote connection

MSA G1 SCBA Accessories

Part Number	Description
10148740-SP	Replacement alkaline battery pack
10148741-SP	Replacement rechargeable battery pack
10158385	Rechargeable battery charging station
10149701-SP	Quick-connect adapter for 2216 psig cylinders
10149702-SP	Quick-connect adapter for 4500/5500 psig cylinders
10158389	Retainer Kit for H-30 carbon (807587) 4500 psig (Type 2 - dovetail)
10158390	Retainer Kit for H-45 LP carbon (10035644) 4500 psig (Type 3 - dovetail)
10158401	Retainer Kit for L-30 carbon (807586) 2216 psig (Type 4 - dovetail)
10162403	Quick-connect adapter for fill station

Part Number	Description
10158401	Retainer Kit for H-45 carbon (807570) 4500 psig (Type 4 - dovetail)
10158402	Retainer Kit for H-60 carbon (807588) 4500 psig (Type 5 - dovetail)
10158408	Quick-connect adapter for fill station
10164940	G1 Custom Tool Kit
10083875	RFID Tag
10158407	RFID reader/writer (primary use with A2)
10186214	RFID read only (primary use with AIMS)
10175010-SP	G1 Control Module w/ Integrated TIC upgrade kit - 2216 psig
10175021-SP	G1 Control Module w/ Integrated TIC upgrade kit - 4500/5500 psig
10183992	Kit, Protective Cap & Boot for 30 min cylinder
10183993	Kit, Protective Cap & Boot for 45 min LP cylinder

MSA G1 SCBA Facepieces

Part Number	Type	Size	Nosecup Size	Head Harness	ATO Configuration
10156458	Fire service	Small	Small	4-pt. adjustable	G1FP-F-S-1-S-4-0-1
10156459	Fire service	Medium	Medium	4-pt. adjustable	G1FP-F-M-1-M-4-0-1
10156460	Fire service	Large	Large	4-pt. adjustable	G1FP-F-L-1-L-4-0-1
10156461	Fire service	Small	Small	Rubber	G1FP-F-S-1-S-R-0-1
10156462	Fire service	Medium	Medium	Rubber	G1FP-F-M-1-M-R-0-1
10156463	Fire service	Large	Large	Rubber	G1FP-F-L-1-L-R-0-1
10161812	Fire service	Small	Small	5-pt. adjustable	G1FP-F-S-1-S-5-0-1
10161813	Fire service	Medium	Medium	5-pt. adjustable	G1FP-F-M-1-M-5-0-1
10161814	Fire service	Large	Large	5-pt. adjustable	G1FP-F-L-1-L-5-0-1

MSA SCBA Facepiece Accessories

Part Number	Description
496081	PAPR Type H filter cartridge (6-pk.)
10042346	PAPR Type H filter cartridge (20-pk.)
10067469	P100/OV canister (1-pk.)
10094315	P100/OV canister (12-pk.)
10144230	Spectacle Kit for G1 Facepiece
10152979	Riot control P100/CN/CS canister (1-pk.)
10160594	Multigas GME/CS/CN/P100 cartridge (1-pk.)
805078	Quik Chek® Fit Test Adapter

Part Number	Description
10144220-SP	Replacement cloth neck strap
10159699-SP	Replacement rubber neck strap
10144231-SP	APR filter adapter assembly
10189322	G1 CBRN Nosecup, Large
10189323	G1 CBRN Nosecup, Medium/Small
10046570	CBRN Canister
10144230	G1 Spectacle Kit

Assemble-To-Order System for MSA G1 SCBA Facepiece

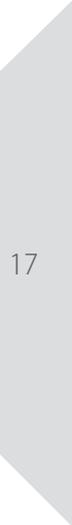
A	B	C	D	E	F	G
Application	Size	Material	Nosecup	Head Harness	Neckstrap	Regulator Connection
F Fire	S Small M Medium L Large	1 Hycar	0 None S Small M Medium L Large	0 None 4 4-pt. adjustable 5 5-pt. adjustable R Rubber	0 None C Cloth R Rubber	1 Fixed push-to-connect

Note: Part numbered facepieces are also available.

Column: A B C D E F G

A-G1FP **F** **1** **1**

PART NUMBERS (BOLD LEFT HAND COLUMNS) QUANTITY



G	H	J	K	L
Regulator Hose Type	Emergency Breathing Support	Speaker Module	PASS	Battery Type
<p>C Continuous</p> <p>Q Quick Connect</p>	<p>0 None</p> <p>1 Waist Mounted Quick-Fill ♦</p> <p>2 ExtendAire II</p> <p>3 Waist Mounted Quick-Fill and ExtendAire II ♦</p> <p>4 Hose and pouch</p> <p>5 Waist-mounted Quick-Fill w/hose and pouch♦</p> <p>6 ExtendAire II w/ hose and pouch</p> <p>7 Waist-mounted Quick-Fill w/hose and pouch, ExtendAire II ♦</p> <p>A Pouch only</p>	<p>L Left Chest †</p>	<p>A PASS Right Shoulder †</p> <p>C PASS Telemetry Right Shoulder †</p> <p>E PASS Right Shoulder w/ Integrated TIC †</p> <p>G PASS Telemetry Right Shoulder w/Integrated TIC †</p> <p>No PASS Right Shoulder †#</p> <p>H †#</p> <p>No PASS Telemetry Right Shoulder †#</p> <p>J †#</p> <p>No PASS Right Shoulder w/ Integrated TIC †#</p> <p>K †#</p> <p>No PASS Telemetry Right Shoulder</p> <p>L w/ Integrated TIC †#</p>	<p>A Alkaline</p> <p>R Rechargeable *</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><i>If Telemetry is ordered R must be selected.</i></p> </div>

MSA—The Safety Company

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

Our **Mission**

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

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 operates in over 40 countries worldwide. To find an MSA office near you, please visit [MSAsafety.com/offices](https://www.MSA.com/offices).