3M | SCOTT™ Fire & Safety

Bid Specification

3M™ Scott™ RIT-Pak Fast Attack Emergency Air Supply System

General Cylinder Requirements

The purpose of this bid specification is to establish the minimum requirements for an auxiliary air source to be used by Rapid Intervention Teams. The air source shall consist of the following components: (1) a carrying bag; (2) external pressure gauge; (3) an audible low-pressure alarm; (4) a Universal Air Connection high-pressure emergency airline hose that will function with any manufacturer's NFPA 1981, 2002 compliant or newer self-contained breathing apparatus; (5) a low-pressure airline hose assembly with a low-pressure manifold that has a 3M Scott-style plug and socket quick disconnect fitting; (6) a RIT-style facepiece and (7) a mask-mounted breathing regulator.

The successful bidder agrees to provide, at their own expense, a factory trained instructor for such time as the respirator user shall require complete instruction in the operation and maintenance of the respirator. Any exceptions to these specifications must be detailed in a separate attachment. Failure to do so will automatically disqualify the bidder.

The successful bidder must be a sales distributor, authorized by the manufacturer, to sell the equipment specified herein.

Operational Requirements

Carrying Bag

1. The carrying bag material shall be a highly visible orange and resistant to heat and flame.
2. The carrying bag shall include reflective striping to increase visibility of the product in low-light conditions. The reflective striping shall be visible in both dry and wet conditions.
3. The length of the shoulder strap shall be adjustable.
4. The shoulder strap shall be equipped with two (2) seat belt-style buckles.
5. The shoulder strap shall be equipped with two (2) non-locking, captive bar carabiners.
6. The shoulder strap shall be equipped with a quick adjustment pull handle, which shall be easily identified by a tactile grip and a reflective strip.
7. The carrying bag shall be equipped with two non-locking, captive bar carabiners affixed to each end of the bag.
8. The carrying bag shall have two flap openings — (1) high-pressure access; (2) low-pressure access — that shall be differentiated by tactile and visual indicators.
9. The pull handle of the low-pressure access flap shall be differentiated from the pull handle of the high-pressure access flap through a tactile grip that can easily be detectable while wearing gloves. The pull handles shall also be identified by reflective strips for visibility in low-light conditions.
10. The carrying bag shall be equipped with a low-friction, protective bottom.

External Pressure Gauge

1. The external pressure gauge shall be secured to the top of the carrying bag.
2. The gauge face shall be luminescent for visibility and easier reading in low-light conditions.

Audible Low-Pressure Alarm

1. The air-source shall include an audible low-pressure alarm that is pneumatically activated at approximately 25% of the rated cylinder pressure.

Universal Air Connection High-Pressure Emergency Airline Hose Assembly

1. The Universal Air Connection (UAC) high-pressure emergency airline hose assembly shall be approximately five (5) feet in length.
2. The UAC High-Pressure Adapter shall have a highly visible, reflective marking on the quick-charge coupling.
3. The quick-charge coupling on the UAC high-pressure emergency airline shall include a rubber protective cap to protect from debris and contaminants.

Low-Pressure Airline Hose Assembly

1. The low-pressure airline hose assembly shall consist of a pressure reducer, a six (6) foot airline hose, and a low-pressure manifold block.
2. The low-pressure manifold block shall include a plug and socket, with two (2) additional ports to enable the use of multiple manufacturers' low-pressure quick disconnect fittings.
3. The low-pressure airline hose shall be able to accommodate an air pressure of 250 psi.
4. The socket shall be able to accommodate the plug end of a low-pressure hose coming off the regulator that is attached to the respirator user's full facepiece.
5. The low-pressure airline hose assembly shall be configurable to allow for connection to the Scott Dual Emergency Breathing Safety System (EBSS) or Universal Emergency Breathing Safety System (UEBSS).
6. The low-pressure manifold block shall have a highly visible, reflective marking.
7. The low-pressure manifold block shall be secured inside of the carrying bag using a hook-and-loop fastener.

RIT-Style Full Facepiece

1. The RIT-style facepiece shall be designed to increase the visibility of the wearer's face to the rescue team.
2. The RIT-style facepiece shall have a donning handle on the head harness and large d-rings on the lower adjusting straps to assist with donning the facepiece on a victim by the rescue team.

Mask-Mounted Breathing Regulator

1. The mask-mounted breathing regulator shall be able to connect to a RIT-style full facepiece or the respirator user's full facepiece.
2. The mask-mounted breathing regulator shall include a three (3) foot low-pressure hose.
3. The mask-mounted breathing regulator shall be equipped with an emergency by-pass knob.
4. The mask-mounted breathing regulator shall be equipped with a metal plate to prevent accidental activation of air flow.
5. The mask-mounted breathing regulator shall have a highly visible, reflective marking.

Pressure Reducer

1. The pressure reducer shall be designed to accommodate multiple operating pressures — 4500 psig and 5500 psig.
2. The pressure reducer shall have an adjustable seat for ease of serviceability.

Cylinder

1. The auxiliary air source shall be able to accommodate cylinders of varying operating pressures and rated durations –15-minute/4500 psig, 30-minute/4500 psig, 30-minute/5500 psig, 45-minute/5500 psig.
2. The cylinder shall be equipped with a 90 degree valve assembly to provide ease of access for opening and closing the handwheel when stored in the carrying bag.

3M Scott Fire & Safety
Personal Safety Division
Monroe Center, P.O. Box 569
Monroe, NC 28111

Phone 1-800-247-7257
Email US-3M-ScottMonroeCSR@mmm.com
Web 3M.com/ScottFire
3M.ca/ScottFire