Fire & Safety

Bid Specification

3M™ Scott™ RIT-Pak III 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 that will function with any manufacturers 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 and additional ports to allow the use of other SCBA manufacturer's low-pressure fittings; (6) a RIT-style facepiece (optional) and (7) a pressure regulator (optional).

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.
3. The carrying bag shall be equipped with ten (10) D-rings.
4. Located on the top of the carrying bag shall be a tool pouch.
5. Located on the top of the carrying bag shall be a rope pouch capable of holding 75 feet of 3/8" rope.
6. The length of the shoulder strap shall be adjustable.
7. The shoulder strap shall be equipped with two (2) seat belt-style buckles.
8. The shoulder strap shall be equipped with two (2) non-locking carabineers.
9. The carrying bag shall have three flap openings: (1) high-pressure access; (2) low-pressure access and (3) cylinder access.
10. The tab of the low-pressure access flap shall be differentiated from the tab of the high-pressure access flap through a tactile grip that can easily be detectable while wearing gloves.
11. The carrying bag shall be equipped with a highly-durable, low-friction skid plate.

External Pressure Gauge

1. The gauge face shall be luminescent for easier reading in low-light conditions.
2. The external pressure gauge shall be equipped with pressure indicator light emitting diodes (LED): (2) green LEDs when cylinder pressure is 100% to 76%; (1) green LED when cylinder pressure is 75% to 51%; (1) amber LED when cylinder pressure is 50% to 26%; and (1) blinking red LED when cylinder pressure is below 25%. An additional orange LED shall be included to indicate low battery alarm.
3. An LED shall be cast across the gauge face to increase readability in dark environments.
4. The external pressure gauge shall be powered by two (2) AA batteries.
5. The external pressure gauge shall be tethered to the carrying bag.

Audible Low-Pressure Alarm

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

Universal Air Connection High-Pressure Emergency Airline

1. The Universal Air Connection (UAC) high-pressure emergency airline assembly shall be approximately five (5) feet in length.
2. The UAC Adapter assembly shall have a highly visible stripe 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 psig.
4. The socket shall be able to accommodate the plug 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 Emergency Breathing Safety System (EBSS) or Universal Emergency Breathing Safety System (UEBSS).

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 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.
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.

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