

ADVANTAGE[®] 4000

Twin-Port Respirator

Bid Specifications

General Product Characteristics	
Type	Full-facepiece twin-cartridge respirator shall be available with a wide variety of filters and cartridges. The complete respirator assembly shall be certified by NIOSH.
Component Parts	The respirator shall consist of a single, replaceable lens facepiece with a cover lens and instructions for use and maintenance of the respirator.

Facepiece	
Sizes	The facepiece shall be available in three sizes. The standard (medium-sized), will fit a wide range of face sizes. Small and large facepiece sizes shall be available to fit those few individuals who will not achieve the correct fit with the standard medium size. A specific size indication shall be marked on the facepiece.
Mounting locations	The facepiece shall have two mounting locations for the cartridge or filter, on both right and left sides. The facepiece shall have cartridge-mounting points using a bayonet attachment.
Suspension	An adjustable silicone rubber head harness with four points of suspension shall be used. An optional polyester net type harness with four points of suspension shall be available.
Lens	The facepiece lens shall be located on the unit to provide a satisfactory field of vision for persons of widely varying facial shapes and sizes. The lens shall be an easily field-replaceable polycarbonate lens with a scratch-preventative hard coating applied. The lens shall be of a non-shatter type design.
Exhalation valve	The facepiece will have a demand exhalation valve. The valve design will be on the umbrella type to limit the amount of back leakage. The valve assembly will be designed for easy cleaning.
Nose cups	Nose cups shall be available for use in reducing facepiece fogging in cold conditions. The nose cups shall fit a variety of face sizes and shapes. The nose cups shall be designed to be installed without special tools.
Cover Lens	A clear flexible cover lens shall be packaged with each facepiece. Optional cover lenses shall be available in at least four types: clear, smoke-tinted, mirror-reflective, and yellow-tinted.
Spectacle kit	A removable spectacle kit shall be available for mounting corrective lenses inside the facepiece.
Facepiece Blank	The facepiece blank shall be available in black silicone or Hycar rubber.

Cartridges and filters	
Cartridge Construction	<p>The cartridges shall be constructed as follows:</p> <ul style="list-style-type: none"> ▪ The chemical and combination cartridges shall be contained in a one-piece plastic permanent assembly with protection for the particulate filter from punctures ▪ The cartridge shall attach to the facepiece by hand (no tools), and use a bayonet-type means of attachment ▪ The canister shall have a low profile that minimizes interference with the overall facepiece vision ▪ Associated labels are to be located on the cartridge in such a manner to easily identify the cartridge type
Filter Construction	<p>Particulate filters shall be constructed as follows:</p> <p>Particulate filters shall be contained in a one-piece plastic permanent assembly with protection from punctures.</p> <ul style="list-style-type: none"> ▪ The cartridge shall attach to the facepiece by hand (no tools), and use a bayonet-type means of attachment ▪ The canister shall have a low profile that minimizes interference with the overall facepiece vision <p>Particulate filters not contained in a one-piece plastic permanent assembly shall be retained on the respirator by a reusable plastic filter retainer.</p> <ul style="list-style-type: none"> ▪ The cartridge shall attach to the facepiece by hand (no tools), and use a snap-on method of attachment ▪ The cartridge shall have a low profile that minimizes interference with the overall facepiece vision

Manual	
Instruction manual	An instruction manual shall be provided with each respirator. NIOSH approval information shall be available.

Accessories	
Spectacle Kit	A removable spectacle kit shall be available for mounting corrective lenses inside the facepiece.
Cover lens	Optional cover lens shall be available in at least two types: clear and smoke-tinted.
Carrier	A belt-mounted nylon fabric gas mask carrier shall be available.
Storage / carrier	A rigid plastic storage/carrier shall be available.
Welder's Adapter	A detachable, polycarbonate welder's adapter shall be available.

Certifications	
Approvals	The complete respirator assembly (respirator and appropriate filters and cartridges) shall be certified by the National Institute for Occupational Safety and Health (NIOSH) under Title 42, Code of Federal Regulations, Part 84.