



## Breathing Air Systems Industrial Cart

### *Bid Specifications*

General Product Characteristics	
Description	The cylinder cart for the Breathing Air Distribution System (BRADS) permits up to four NIOSH-approved airline respirators to be connected to 2 one-hour 4500 psig breathing apparatus cylinders (NOT INCLUDED). The cart may be used in a portable or stationary position.
Component Parts	The unit shall have two wheel poly powder coated steel cart, two sets of double cylinder straps, airline hose rack, and adjustable pull handle.
Certification	NIOSH 87-116 compliant

Operations Panel Characteristics	
Description	<p>Panel face color is white with black letters. Each item is to be identified.</p> <p>Panel includes:</p> <ul style="list-style-type: none"> <li>• A 5500 psig pressure regulator to reduce the 4500 or 2216 psig cylinder air to the proper air line respirator inlet pressure.</li> <li>• Low cylinder pressure whistle.</li> <li>• Cylinder pressure gauge.</li> <li>• Outlet pressure gauge that operates in 0-160 psig range.</li> <li>• 4-outlet manifold with 1/4" NPT.</li> <li>• ASME CERTIFIED relief valve set at 125 psig with manual pull ring.</li> <li>• Two cylinder pigtails with bleeder valves for disconnecting, CGA universal hand-tightening nuts (Accepts CGA 346 and 347 Threads), and a check valve to prevent back flow. This prevents the air from moving between cylinders.</li> </ul>
Fittings	<p>Units can be ordered with union adapters (male 3/4 inch – 16 UNF going into a 1/4 NPT female manifold thread) to connect directly to the MSA NIOSH-approved breathing hose or quick-disconnects and hose. The union adapters can be removed and replaced with a suitable fitting with a 1/4 inch NPT male thread. The manifold has 1/4" NPT. However, the union adapter is necessary to make connection to MSA breathing hose. Units can be ordered with aluminum Snap-Tite quick-disconnect sockets, steel Foster quick-disconnect sockets and brass Hansen quick-disconnect sockets (see parts list).</p> <p>All components are panel mounted.</p>

Physical Characteristics	
Size	35" high x 21" wide x 15.25" depth.
Weight	38.5 pounds without cylinders.
Operation Label	The label shall be located on top front of main frame.
Packaging	Carton must be double wall C flute corrugated, with an ECT value of 51 or greater
Cushioning	Cushioning shall be "sealed foam" as required to protect product.
Instruction Manual	Manual will be packaged inside unit. Manual instructions will be available in English, French and Spanish.

## Industrial Cart Description (see diagram below)

- |   |                                   |
|---|-----------------------------------|
| 1. Pull pin for handle  | 8. Pressure regulator             |
| 2. (2) 8-inch wheels  | 9. Cylinder pressure gauge        |
| 3. Nylon cylinder strap   | 10. Low pressure cylinder whistle |
| 4. 125 psig ASME pressure relief valve  | 11. Pull pin for hose support     |
| 5. Outlet connections:<br>Union adapter<br>Snap-tite socket<br>Foster steel socket<br>Hansen brass socket | 12. CGA-347 nut, hand tightening* |
| 6. Dust cap   | 13. Bleeder valve*                |
| 7. Outlet pressure gauge  | 14. Check valve*                  |

\*Included in Whip Assembly: hose, bleeder valve, check valve, 90 degree elbow, CGA 347 hand connection nut & nipple

