



## 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.  |

| 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 pigtailed with bleeder valves for disconnecting, CGA universal handtightening 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

