



Nitrogen Generating Systems

March 25, 2009

# THE CVB MANCS-1 MOBILE AIR/NITROGEN CHARGING STATION

- ***A Multifunctional, Diesel Powered On-site Mobile Nitrogen Generator Air and Ground Transportable to Operational Areas***
- ***Furnished "Ready for Use" with High and Low Pressure Servicing Kits Transported to "Point of Need" with Backpack Cylinder and Carrying Harness Accessories***



MANCS-1  
Part Number: 702000-D  
NSN: 3655-01-463-8067



High Pressure Nitrogen Man Portable to "Point of Need" - 4500 psig Lightweight Backpack Cylinder - Part Number: 410780 and Harness - Part Number: 410735-1



LPSK-1A, Low Pressure Service Kit with Controls, Service Hose, Tire & Blade Fill Chucks - Part Number: 410717



HPSK-1A, High Pressure Service Kit with Controls, Service Hose & High Pressure Service Chuck - Part Number: 410727

## **The MANCS Manufactures Gaseous Nitrogen on site . .**

- Charges 4500 psig lightweight backpack cylinders for air and man transport to point of need or carrying in the air transportable or tarmac portable NDSK Nitrogen Deployment Sustainment Kit
- Supplies 0-5000 psig Nitrogen at regulated pressure for direct service to cylinders and cylinder carts.
- Supplies compressed air at 0-125 psig for use with air tools and other pneumatic services.

## **The MANCS is Small and Lightweight . .**

- Half the size of current Mobile Nitrogen Generators
- Air and surface vehicle transportable.
- Can be sling and fork lifted.

**PROCURABLE FROM**

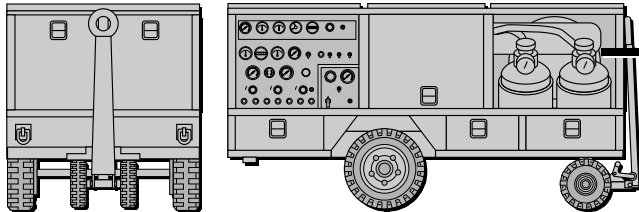
**DSCR BY STOCK NUMBER OR FACTORY DIRECT,  
Government Impact Cards Acceptable**



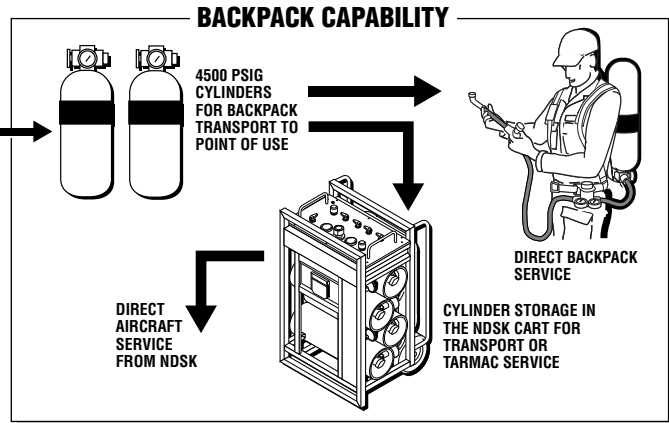
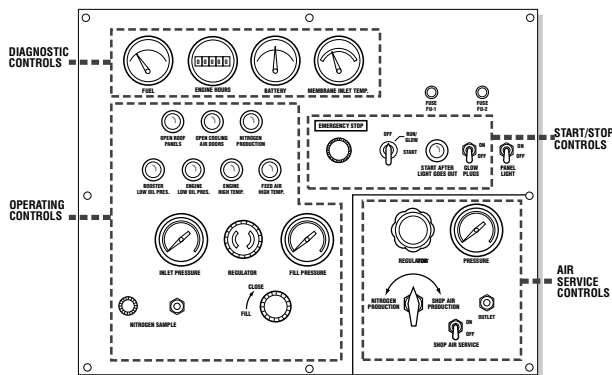
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## MULTI-FUNCTIONAL AGSE

The CVB MANCS-1: P/N 702000-D  
NSN 3655-01-463-8067



### OPERATIONAL SIMPLICITY



### Nitrogen Servicing Components Included:

- **All Nitrogen Connections** - are Quick Disconnect style.
- **4500 psig Backpack Cylinder** - CYL-74, Part Number: 410780 (*NSN 8120-01-572-6397*), lightweight 12 lbs. dry 28 lbs. filled at 88 scf.
- **Backpack Cylinder Harness** - HRN-3A, Part Number: 410735-1 (*NSN 3655-01-572-6308*), carries cylinder plus attachments for LPSK and HPSK Nitrogen Servicing Kits.
- **Low Pressure Servicing Kit** - LPSK-1A, Part Number: 410717 (*NSN 3555-01-572-6345*), with high pressure hose connecting Service Controls to Backpack Cylinder and a flexible 10 foot low pressure hose from the Service Controls to Tire and Rotor Blade Fill service chucks.
- **High Pressure Servicing Kit** - HPSK-1A, Part Number: 410727 (*NSN 3655-01-572-6314*), with high pressure hoses connecting Service Controls to Backpack Cylinder and to high pressure Service Chuck.
- **CGA-680 to QDC Adapter** - CGA-QD, Part Number: 410810 (*NSN 8140-01-572-6392*), enables use of earlier Backpack Cylinders using CGA-680 Connectors.
- **QDC to CGA-680 Adapter** - QD-CGA, Part Number: 410787 (*NSN 8120-01-572-6405*), enables use of earlier Pressure Controls using CGA-680 Connectors.
- **Reusable Transport Case** - RTC-1, Part Number; 410740 (*NSN 8140-01-572-6387*), a transport and storage case with molded foam inserts for all accessory parts and technical manual.
- **MANCS-1 Spare Parts Kit** - Part Number: 0181, for start-up and periodic maintenance.

### PERFORMANCE (Standard Day Conditions)

Nitrogen gas production rate (nominal) ..... 4-6 scfm  
 Service Pressure (Nitrogen) ..... regulated 0-5000 psig  
 Nitrogen Purity (% Oxygen free) ..... standard 97-98%  
 Service Pressure (Compressed Air) ..... regulated 0-150 psig  
 Diesel Engine/Multi-fuel/Liq. Cooled ..... Meets CARB-ULGE

### OPTIONS

Percent Oxygen Analyzer ..... Portable meter for analyzing nitrogen quality  
 Infra-red Coolant Gas Recharger (CGR) ..... Nitrogen charging for Infra-red missiles  
 Service Hoses ..... High and low pressure hoses with QDs and check valve  
 Inverter ..... 110 VAC for shop light

### PHYSICAL CHARACTERISTICS – SMALL FOOTPRINT

Length ..... 84 inches  
 Width ..... 40 inches  
 Height ..... 42 inches  
 Weight ..... 1700 lbs.  
 Running Gear ..... Solid axle with rotating hubs and steerable front gear