



Stryker NBCRV



CCS

### KEY FEATURES:

- 100 CFM Filtered Air
- 1,500 CFM Re-Circulation Air
- 15.5 KW Net Cooling Capacity



OPS

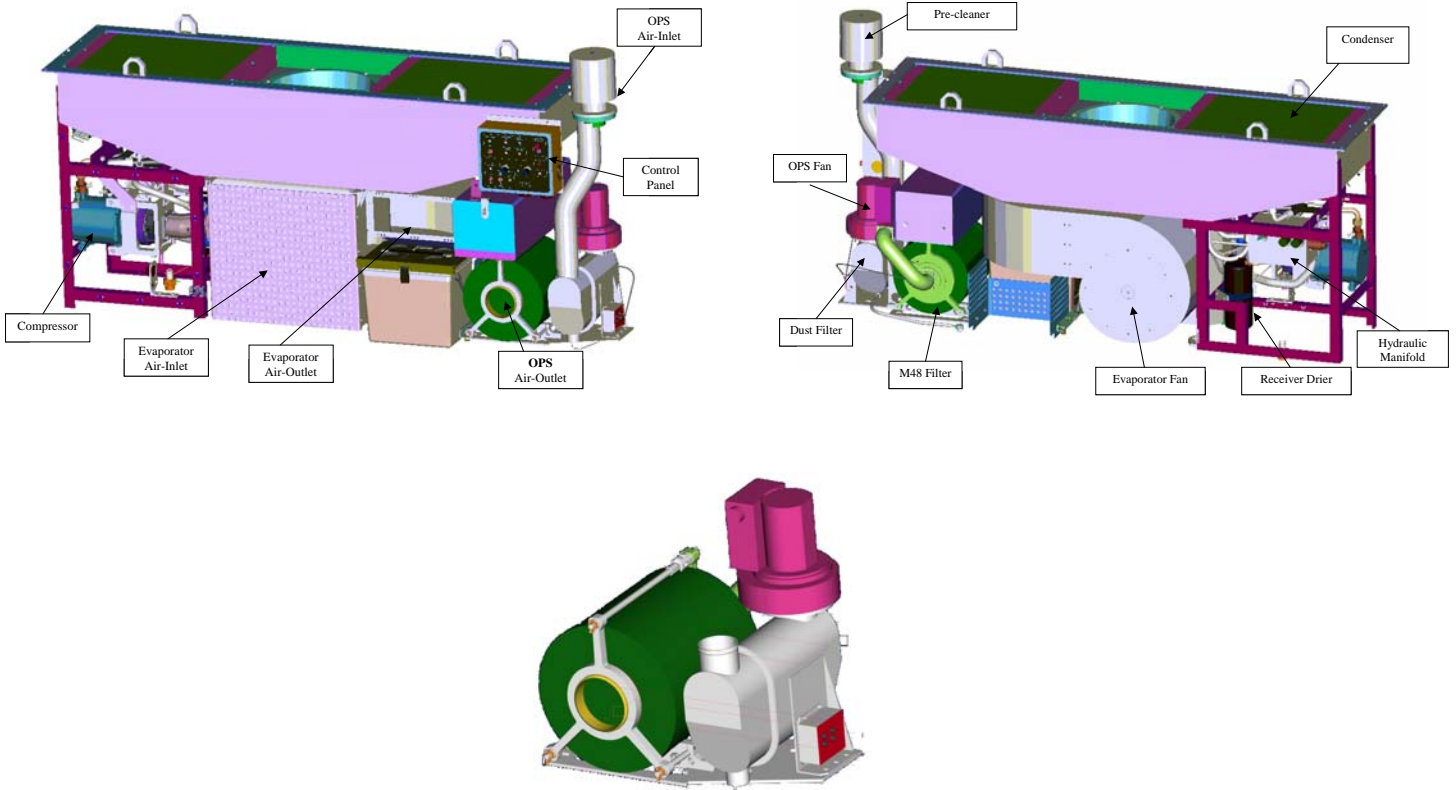
### GENERAL PRODUCT DESCRIPTION:

The Stryker NBCRV CCOPS system was developed by MLS under contract GUA046000 to meet the GDLS CIDS SB-IV15220. The NBCRV variant provides NBC situational awareness with an onboard-integrated NBC sensor suite and integrated meteorological system. The CCOPS includes a Climate Control System (CCS), Over Pressure System (OPS), and control panel.

The OPS provides positive overpressure to minimize cross-

contamination of samples and detection instruments and provides crew protection to allow extended operation at MOPP-4. The OPS supplies 100 cfm of filtered air through a pre-cleaner, dust filter and M48A1 filter. The CCS provides the crew and squad compartments with 1500 cfm filtered and conditioned air. The 15.5 kW cooling capacity system utilizes a 200 cc scroll compressor, custom heat exchangers, and is hydraulically driven.

The control logic and user interface panel provide all the operation and safety features for the hydraulic, refrigerant and AFES circuits. The CCOPS has met all the performance requirements and verification testing specifications. MLS has performed the cooling capacity and system recovery tests at our facilities using a specialized calorimeter, simulating the vehicle layout and interfaces.



Overall CCS/OPS Specifications:

|   |                    |
|---|--------------------|
| Exterior Dimensions (L x W x H).....    | 75" x 21" x 36"    |
| Gross Weight .....                      | 500 Lbs            |
| Electrical Input .....                  | 24 VDC, 15 Amps    |
| Air Re-Circulation .....                | 1,500 CFM          |
| Cooling Capacity .....                  | 15.5 KW            |
| Refrigerant Type .....                  | R 134a Refrigerant |
| Compressor (Hydraulically Driven )..... | 200 cc Scroll      |
| Over- Pressurization System (OPS)       | (see below)        |
| Filtered Air Flow .....                 | 100 CFM            |
| Dust Filtration & Pre-Cleaner .....     | NBC M48 (GFE)      |

Operating Parameters:

|                   |                        |
|-------------------|------------------------|
| Temperature ..... | 40 °F to 125 °F        |
| Altitude .....    | Sea level up to 10,000 |
| Slope Angle ..... | 0 ° to 60 °            |