

Purchase Description
For
2 USMC Stand Alone Air/Gen System
SAA/GS

1. System Interface:
 - a. The envelope dimensions of the SAA/GS shall not exceed 28"W x 24"H x 60"L. A system total package size smaller than that stated above is desirable.
 - b. Center of gravity of the SAA/GS system shall be located as close as possible to the bottom center of the package envelope.
 - c. SAA/GS System mounting points shall be configured so as to allow mounting of the SAA/GS system to the 5th Wheel Pallet. (A drawing of the mounting pallet will be provided.) The SAA/GS design shall also be capable of supporting either horizontal or vertical mounting. **The requirement is for one unit with vertical mounting and one unit with horizontal mounting.**
 - d. SAA/GS System noise level shall not exceed 85 dba at 7 meters.
 - e. SAA/GS Control panel shall be provided with at least the following items:
 - i. Hour meter
 - ii. High temp safety light
 - iii. On/Off switch
 - iv. Fuel gauge
 - f. The SAA/GS system shall use diesel and JP8 fuel.
 - g. The SAA/GS shall operate in all environmental conditions from – 30degrees F to +120 degrees F.

2. SAA/GS rotary screw air compressor requirements:
 - a. The rotary screw air compressor shall provide 70 SCFM at 175psi
 - b. The rotary screw air compressor shall provide a high temp cut off switch
 - c. The envelope dimension for rotary screw air compressor alone shall not exceed 7"x8"x12"
 - d. The rotary screw air compressor weight shall not exceed 50 lb.
 - e. The rotary screw air compressor system shall provide an air-cooled heat exchanger.
 - f. The rotary screw air compressor system shall provide automatic throttle control. This control will be used to match air demand.
 - g. The air receiver tank shall be incorporated in the system:
 - i. Tank size is to be 3 US Gallons
 - ii. 200psi high pressure relief valve
 - iii. Integrated coalescing oil separator element.
 - iv. Lubricant sight glass

- v. Replaceable spin on 25 micron oil filter with safety bypass feature.
- vi. 8 sec. Automatic blow down valve
- vii. Envelope dimensions shall not exceed 6.5" dia. X 31" long.
- viii. Weight shall not exceed 20 lb.
- ix. The rotary screw air compressor shall include an air-cooled aftercooler with integral trap and drain.

3. SAA/GS system electrical requirements:

- a. Both AC and DC power will be required.
- b. The AC requirement is 110 VAC 1 Ohm 60 Hz.
- c. The DC requirement is 24 VDC 60 Hz
- d. The AC power will be required to run the following electrical hand tools:
 - i. Electric Drill, Portable close quarter 3/8" VSR, 0-1300 RPM, 115 VAC; Milwaukee – 0375-6
 - ii. Electric Drill, portable, 3/8" VSR, 0-2500RPM, 115 VAC; DeWalt – DW100
 - iii. Electric Drill, portable, 1/2" VSR, 0-850 RPM, 115 VAC; DeWalt – DW239
 - iv. Electric, portable, sander, disk, 7 in. pad dia, elec mot, 115 VAC/VDC, 60 Hz, w/7" rubber backing pad; DeWalt – DW849
 - v. Electric, portable, sander, disk, 4 1/2" pad dia, elec mot, 115VAC/VDC, 60 Hz; DeWalt – DW818
 - vi. Electric, portable, saw, reciprocating, 115 VAC/VDC, 1 1/4" stroke, strokes per min 0-2900 w/cryg case furnished w/access: Dewalt – DW309K
 - vii. Grinding machine, bench mtd, 115 VAC, 60 Hz, 1ph, 3450 RPM, 8" dia grinding wheel, with work light: Westward – 4TM71
 - viii. Electric 3/4" impact wrench, 2500 impacts per minute, 380 foot lbs torque; Milwaukee-9075-20
 - ix. Electric, heater, gun type, 120 VAC, 60 Hz, 1ph, variable temperature heat gun, 90 degrees F to 1050 degrees F, LED digital readout display; Milwaukee – 8988-20
- e. The AC power source will also provide power for lighting up to 300 watts.
- f. The DC power source will power the standard US Army dome light system.
- g. Total system power shall be configured so as to allow the simultaneous startup and use of two or more of the highest current draw items at a time.