



VMAC G30 Gas Powered Air Compressor With Generator – Bid Specifications

These specifications are for bid purposes only and are provided by VMAC.

All specifications are subject to change without notice.

AIR COMPRESSOR

25 CFM Gas Engine Driven Standalone Above Deck Mounted Rotary Screw

25 CFM and 150 PSI rotary screw air compressor system mounted above deck on a truck chassis or skid. Air compressor output will be measured to ASME standards.

Compressor Air End:

The air compressor must be an oil-injected rotary screw and must provide 100% duty cycle with continuous air flow of 25 CFM at 100 PSI, with a maximum of 150 PSI. The compressor must be tested to ASME standards for air output. The compressor must be driven by auto-tensioned serpentine belts and contain no gear case and no clutch. A thermal protection circuit must be integrated on the compressor.

Air Oil Separator Tank/Cooler:

The air oil separator tank/cooler must act as an oil/air separator and air/oil cooler. Material must be of high-grade aluminum and contain an integrated coalescing oil separator element. It must have a lubricant sight glass no smaller than 1 1/2" in diameter. It must have a replaceable spin on 25-micron oil filter with safety bypass feature. It must contain an integral pneumatically piloted blow down valve and 12V activated fan. The tank dimension must be no larger than 8" W x 17.5" H x 19.75" L and the weight must be no greater than 30 lb.

AC GENERATOR

3600 W Continuous AC Output

The AC generator must be a single-phase brushed synchronous 2 pole generator with electric automatic voltage regulation (AVR). Generator output must provide 3600 W continuous AC output, and will have one 20 A, 120V, 60 Hz single-phase circuit with GFCI duplex receptacle and one 20 A, 240V, 60 Hz single-phase circuit with L14-20 twist lock.

Throttle Control:

The 2-speed throttle control with manual throttle control valve must include Compressor Mode (auto idle) and Generator mode (high idle). Compressor Mode must be controlled by system pressure and idle the engine down when the air system reaches full air pressure and idle the engine up with air demand.



Engine:

The air compressor system will be powered by a 11.7 Net HP US EPA compliant gas driven engine with an overhead valve design for increased efficiency and optimal power transfer. The engine must have electric start with an upgraded 200 W charging system. A manual choke lever, hour meter, and key switch must be included. At full load, the engine RPM must not exceed 3,500. The engine fuel tank must provide a minimum capacity of 1.6 gallons.

Safety Features:

Safety features must include a compressor thermal protection circuit, automatic rapid blow-down valve on the tank, and a 200 PSI pressure relief valve. The generator must include additional safety features including 20 amp thermal breakers on the 120V and 240V circuits.

Package:

The overall package size will be no greater than 42.8" (l) x 21.4" (w) x 23.9" (h). Total wet weight will not exceed 295 lb.

Optional Integrated Accessories:

6-Gallon Air Receiver Tank

The air receiver tank wing tank will provide a total of 6-gallons of air storage. Tanks will add no more than 8" to total package height, and no more than 25 lb to total package weight. Tanks will be rated for a maximum 170 psi.

10-Gallon Air Receiver Tank

The air receiver tank with mounting feet will provide a total of 10-gallons of air storage. Tanks will add no more than 10" to total package height, and no more than 40 lb to total package weight. Tanks will be rated for a maximum 200 psi.

Remote Control Panel

The remote control panel provides a mounting plate that holds a key switch, an hour meter, an unloader, a throttle control valve, and an extended choke cable so the panel can be mounted up to 10 feet away from the compressor/generator.

Cold Climate Kit

The cold climate heater package assists in starting the compressor/generator in freezing climates; the package will assist in starting the compressor/generator at temperatures as low as -30°C (-22°F); (2) 120V AC Heaters will be provided; requiring 800 W total power.

800 W Power Inverter

The 800 W, 12V power inverter will power the compressor cold climate kit.