

## VMAC RAPTAIR-G30 Gas Engine Driven Air Compressor – Bid Specifications

*These specifications are for bid purposes only and are provided by VMAC.  
All specifications are subject to change without notice.*

### **AIR COMPRESSOR, 30 CFM Gas Engine Driven Standalone Above Deck Mounted Rotary Screw**

30 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 30 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 an auto-tensioned serpentine belt 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 lbs.

#### **Throttle Control:**

The automatic pneumatic throttle control 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 will be powered by a 14HP US CARB and EPA compliant gas driven engine with an overhead camshaft design that provides 360-degree airflow around both the exhaust and intake valve stem. The engine must have electric start with an upgraded 200W charging system. A 29.5" choke cable, hour meter, and key switch must be included. At full load, the engine RPM must not exceed 3,250. The engine fuel tank must provide a minimum capacity of 1.8 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.

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**Vehicle Mounted Air Compressor Systems**

**Package:**

The overall package size will be no greater than 20.3" (w) x 33.5" (l) x 20.7" (h). Total dry weight will not exceed 205lbs.

**Optional Integrated Accessories:**

*Low Profile Duel Air Receiver Tanks*

The duel 6 gallon air receiver tanks provide a total of 12-gallons of air storage. Tanks will add no more than 10" to total package height, and no more than 90lbs to total package weight.

*Remote Control Panel*

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

*Remote Engine Oil Drain*

The remote engine oil drain includes a length of hose that extends the engine oil drain away from the compressor.

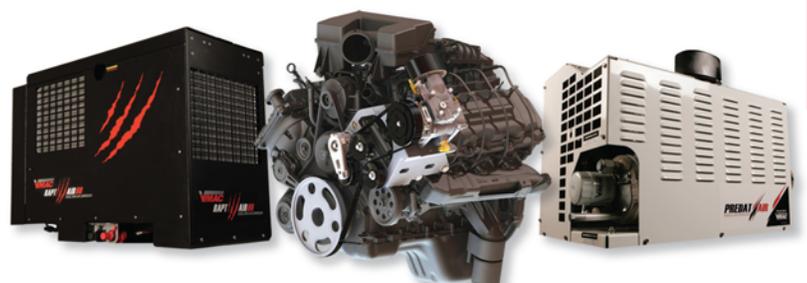
*Exhaust Resonator*

The exhaust resonator will mount to the exhaust port on the engine. The 5" tapered pipe will redirect the exhaust up and away from the engine and reduce the noise level of the engine.

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