G90 Gas Driven Air Compressor
Bid Specifications

These specifications are for bid purposes only.
All specifications are subject to change without notice.

AIR COMPRESSOR
90 CFM at 100 PSI and 50 CFM at 170 PSI, Gas Engine Driven, Standalone, Above Deck Mounted Rotary Screw Air Compressor with Dual Belt and Clutch System to Control High-Flow and High-Pressure Modes

General

The air compressor system shall be a standalone, above deck mounted rotary screw air compressor package suitable for installation on a truck chassis, service body, trailer, or skid. Air compressor output shall be measured to ASME standards.

Compressor Air End

The air end shall be an encapsulated, oil-injected, belt-driven rotary screw compressor capable of 100% duty cycle. The compressor shall provide up to 90 CFM at 100 PSI continuously and up to 50 CFM at 170 PSI for high-pressure applications. A high-temperature shutdown sensor shall be integrated with the compressor assembly. The compressor shall include an integrated inlet control system and minimum pressure check valve.

Automatic Airflow and Pressure Management

The compressor package shall include an automatic dual belt and dual clutch drive system that shifts belt lines to provide high air flow and high air pressure operating modes without operator intervention. The control system shall monitor air demand and engine load and automatically adjust drive modes to deliver the air output required for the application.

Air/Oil Separation and Filtration

The system shall include an air/oil separator assembly mounted within the enclosure. The separator assembly shall be constructed of corrosion-resistant metal and include a spin-on coalescing separator element, a replaceable spin-on oil filter with safety bypass feature, and a 200 PSI pressure relief valve. The air discharge circuit shall pass through a minimum pressure check valve.

Oil Cooling

The compressor package shall include a dedicated compressor oil cooling system mounted within the enclosure to control compressor operating temperature during continuous-duty operation.

Engine

The air compressor shall be powered by an electronic fuel injected, four-stroke, V-twin gasoline engine. Engine controls shall be integrated with the compressor control system to support automatic start, stop, standby, and restart functions.

Fuel System

The compressor package shall include an integrated fuel tank with a minimum capacity of 10 gallons. The fuel system shall be EPA compliant and include an external fuel level viewing means. A fuel nozzle holding hook shall be included with compressor package to allow for easier fueling.

Digital Control System

A 12-volt digital control system shall be provided with a removable OLED display module for remote mounting when required. The display shall provide real-time operating data, service notifications, and diagnostic fault messages. A separate momentary switch shall engage the air compressor. The control system shall automatically place the unit into standby mode after a sustained period of no air use, shut down the compressor and engine during standby, and automatically restart the system when air is demanded.

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Telematics and Communications

The system shall be capable of optional telematics integration through an industry-standard J1939 interface for remote system monitoring, diagnostic reporting, service interval tracking, hour tracking, and remote start/stop capability.

Cold Climate Protection

The control system shall include automatic cold climate protection logic that prevents loading of the compressor until minimum engine operating temperature has been achieved and restricts high-speed operation until minimum compressor operating temperature has been achieved. An optional cold climate kit shall be available for ambient temperatures below 14°F (-10°C).

Throttle / Speed Control

The system shall automatically adjust engine speed based on air demand and operating mode. The control system shall provide reduced-noise idle operation and automatic unloading when full system pressure is achieved.

Noise Level

The complete compressor package shall not exceed 73 dB at high idle when measured at 21 feet (6.4 m).

Safety Features

Safety features shall include compressor engine over-temperature shutdown, automatic rapid blowdown, 200 PSI pressure relief valve, battery protection, and automatic restart warning functions. The system shall also provide automatic shutdown and restart logic to protect the compressor and engine during standby and cold-weather operation.

Package

The overall package dimensions shall be no greater than 47 inches long x 20.9 inches wide x 31.5 inches high. Dry weight, including integrated fuel tank, shall not exceed 495 lb. The package shall be enclosed in a corrosion-resistant metal enclosure with powder-coated finish.

Warranty

The compressor air end shall be covered by a lifetime limited manufacturer warranty. Other major compressor package components shall be covered by a minimum two-year limited warranty. The engine shall be covered by a minimum three-year limited warranty.

Installation

Installation of the air compressor package shall be completed only by an authorized distributor or installer approved by the compressor manufacturer.

Air Receiver Tank (Optional)

A minimum 10-gallon air receiver tank shall be included for proper operation of all system functions. Air receiver tank is not required to be included within the compressor package.

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