

VMAC PTO 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.

DIRECT TRANSMISSION MOUNTED AIR COMPRESSOR, PTO, and COLD CLIMATE PROTECTION - PTO Driven, Transmission Mounted, Air Compressor System.

The air compressor will come as a complete kit with all components/functions described within. It will include the compressor, PTO, electronic components, mounting brackets, all applicable fasteners, compressor oil, hoses and installation, owner's, and illustrated parts manuals.

1. Air Compressor:

Air End

The air compressor must be installed on the transmission PTO port and must be direct driven from the PTO without the use of a belt. The compressor must be an oil injected, rotary screw capable of 100% duty cycle, and providing up to 70 CFM and 175 psi of air power. A high temperature cut off sensor is integrated with the compressor system. The compressor is equipped with a low profile integrated air inlet control valve. Air compressor output will be to ASME standards.

Gear Case

The compressor must be driven by a gear case, and the gear case must be lubricated by the compressor system.

Regulator

The regulator is remote mounted and must contain the pressure sensor. It must be mounted on the vehicles firewall in the engine compartment.

Air Filter

The air filter will be a dry paper type in a heavy-duty air filter housing.

Air/Oil Separator Tank

The tank is an air/oil separator. Material must be of high-grade aluminum material and contain an integrated coalescing oil separator element. It must have a lubricant sight glass no smaller than 1 1/2" in diameter. Must contain a 200 PSI high pressure relief valve. It must have a replaceable spin on 25-micron oil filter with safety bypass feature. It must contain an 8 seconds or less integral pneumatically piloted blow down valve. The tank dimension must be no larger than 6" diameter X 31" length and the weight must be no greater than 18 lbs.

Heat Exchanger

The Heat Exchanger must be a liquid-to-liquid cooler that is integrated with the engine cooling system. The overall dimensions should be no greater than 4" x 3-3/4" x 9" in size and the weight must be no greater than 17lbs without fluid.

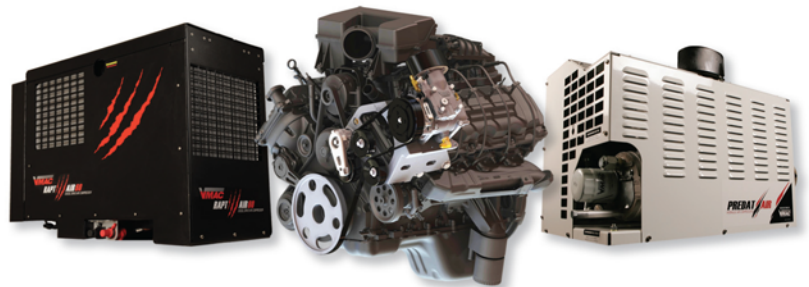
Warranty

The Compressor Air End will include a manufacturer lifetime warranty.

1333 Kipp Road
Nanaimo, BC
V9X 1R3 Canada

Tel: 250-740-3200
Toll Free: 1-800-738-8622
Fax: 250-740-3201

www.vmacair.com



Vehicle Mounted Air Compressor Systems

2. Power Takeoff:

The Power Takeoff will be an Chelsea PTO, capable of 200ft-lbs of continuous torque and 58 HP.

4. Cold Climate Protection:

Cold climate protection will include the inverter, and 110V AC cold climate heaters that are built into the package allowing the air compressor to operate in ambient temperatures below -10°C (14°F).

5. Digital Control System:

A 12 volt digital control box with LCD display will be included that will show system hours, service reminders and safety/functional messages. The control system will integrate with the PTO to engage and disengage the PTO when the compressor is turned on and off. Compressor over-temperature shutdown, failed temperature probe, high idle activation and error messages will all be controlled by the control system. The digital control system will also monitor compressor temperature and automatically start the cold climate kit if the temperature drops below -10°C (14°F).

6. Throttle Control:

Throttle control must be an infinitely variable speed control and must automatically modulate engine RPM to match the air demand. It must have a vehicle Drive Disable Circuit (DDC) for vehicles equipped with an automatic transmission and a park brake safety shut off switch.

7. Package:

Total wet weight will not exceed 150lbs.

8. Safety Features:

The system must include a compressor thermal protection circuit, automatic rapid blow-down valve on the tank, 200 PSI pressure relief valve, drive disable circuit, parking brake safety, and a PTO indicator light.

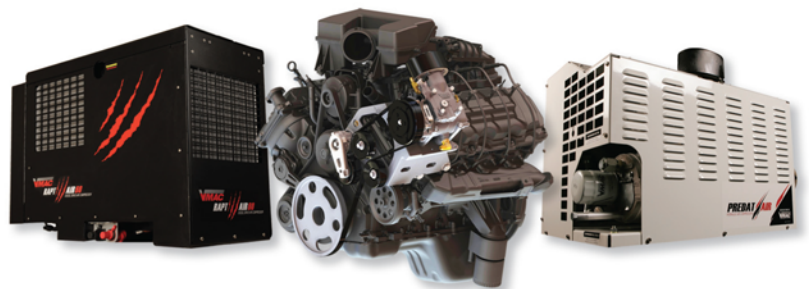
9. Installation:

Installation of the air compressor system must only be completed by a factory authorized distributor of the air compressor manufacturer.

1333 Kipp Road
Nanaimo, BC
V9X 1R3 Canada

Tel: 250-740-3200
Toll Free: 1-800-738-8622
Fax: 250-740-3201

www.vmacair.com



Vehicle Mounted Air Compressor Systems