



**OPTION 1 – 185 CFM PTO DRIVEN AIR COMPRESSOR / GENERATOR:**

Underdeck PTO Air Compressors with 6.2 Kilowatt Integral Generator.

- A. TYPE  
185 UDEC PTO Driven Air Compressor new and in current production.
- B. CAPACITY  
185 CFM free air at 100 PSIG. Compressor to be capable of 90 to 175 PSIG operation.
- C. COMPRESSOR  
Sullair 10 Series Powertech (or equivalent) design oil flooded rotary screw. The air compressors shall be completely manufactured and assembled in the USA. Air compressor inlet control valve shall be an integral design incorporated in the cast iron housing. No bolt on inlet control valves.
- D. GENERATOR  
Model Genair 6.2 (or equivalent) capable of producing a continuous rating of 6.200 watts A/C power. Unit to be integrally coupled to tapered output shaft of female rotor. No belts, pulleys or tensioning devices.
- E. GENERATOR CONTROL  
Remote mount control with on/off toggle witch and indicator light. Control panel to include (1) 30 AMP circuit breaker, (2) 20 AMP circuit breakers, and (1) 45 AMP incoming circuit breaker. Unit to be equipped with (2) 20 AMP GFI 3-prong conventional outlets and (1) 30 AMP 3-prong twist-lock outlet.
- F. INPUT SPEED  
Air compressor shall produce 185 CFM at 1970 RPM input speed.
- G. GEAR RATIO  
Air compressor gear ratio shall be 3.94:1 to ensure lowest possible engine speed.
- H. AIR INTAKE FILTERS  
Separate two-stage, heavy duty, dry-type air filters shall be provided for the air compressor.
- I. AIR RECEIVER  
The receiver shall be ASME code approved rated at a 200 PSIG working pressure. It shall be equipped with an ASME air pressure relief valve located upstream of the final oil separator. The receiver shall be equipped with a fill cap and easily readable sight glass, ¾" service valve and a spin-on air compressor oil filter with built-in by-pass protection.
- J. AIR/FLUID SEPARATOR  
Separator to be located internally in air receiver tank. Separator shall be constructed with a pleated media, welded straps, scrim barrier, support screen, expanded metal outer wrap and internal and external grounding. Separator shall provide for enhanced air quality, reduced operating and maintenance cost and optimized compressor performance. Separator to be warranted for 5 years or 3000 hours.
- K. ELECTRONIC COMPRESSOR CONTROLLER & INSTRUMENT PANEL  
Panel to be an LED type displaying air pressure, hour meter, compressor oil temperature, and engine RPM. Gauges to be all electronic. No mechanical gauges. Panel to have a microprocessor built in and be capable of recording and displaying out of specification operations for ease of troubleshooting. Panel to have oil level sensing capability and be able to display low compressor oil warning. Panel also to be capable of indicating and displaying when routing compressor preventative maintenance is due for oil change intervals, air filter

change intervals, coalescing element change intervals, and oil filter change intervals.

- L. PROTECTIVE CIRCUIT  
Compressor to automatically shutdown in case of high compressor temperature or over pressurization. Additional protective features provided include automatic blow down valve, receiver relief valve and minimum pressure orifice.
- M. COOLING SYSTEM  
Compressor Cooling System shall allow rated air delivery and pressure operation continuously in 125 degree Fahrenheit ambient temperatures. Cooler to be mounted in a power-coated sheet metal enclosure with a suction type fan assembly. (No ABS plastic shrouding.) Compressor fluid shall be filtered by a 25 micron full flow spin-on replaceable filter canister. A fan temperature switch shall be provided to regulate compressor cooling.
- N. CONTROLS  
Pneumatic inlet control valve shall be integrated into compressor system and automatically modulate output from 0 to 100% in response to air demand.
- O. SPEED CONTROL  
Speed control designed to suit engine make/type/model and fuel delivery system. Electronically controlled engines speed controls shall emulate chassis manufacturer foot throttle position and allow modulation of engine speed to match air demand. No electronic control module (ECM) programming allowed. Wiring harness to utilize Packard (or equivalent) type connectors. Wiring harness to utilize color coded and numbered wire.
- P. DRIVELINE  
2 ½" Dana 1310 Series Driveline (or equivalent) with universal joint, yoke and companion flange.
- Q. GENERAL  
The compressor shall be manufactured in an ISO 9001 certified quality system.
- R. WARRANTY  
The rotary screw air compressor unit shall be warranted for 5 years against defects in materials and workmanship and against the loss of capacity due to wear. The unit will be replaced or repaired at manufacturer's option as a result of such defects. This warranty does not cover damage caused by accident, misuse, or negligence. If the compressor unit is disassembled, the warranty is void. All other parts, including the compressor unit shaft seal, are warranted for twelve months, subject to the same conditions mentioned above. A Lifetime Warranty on the air compressor unit is available at no additional cost with the purchase of an annual maintenance kit.
- S. SERVICE CENTERS  
Air compressor manufacturer MUST have factory authorized service centers located in the state of Missouri.
- T. OPTIONS  
Dual Pressure 100/150 PSI electrically or pneumatically activated allowing operator to instantly select multiple pressure settings:

Regarding electrical boxes, two front and two rear wired-in series is required. More specifically, one front and one rear electrical box is wired into one circuit and the other two electrical boxes (one front and one rear) are wired into the other circuit. A PTO and available PTO opening on the transmission housing is also required.

A quick-disconnect for air operation must meet the following requirements: One installed at the front of the truck, one at the rear of the truck, one on the street side, and one on the curb side.

**PTO SPECIFICATIONS -**

- 1. ONE PTO IS STANDARD EQUIPMENT – DIRECT-MOUNT FLANGE**
- 2. IF OPTION 1 IS CHOSEN, ONE PTO WITH 1 ¼” ROUND SHAFT FOR AIR COMPRESSOR / GENERATOR APPLICATION IS REQUIRED.**

Muncie CS20 Heavy Duty PTO or similar approved PTO is required.