

**VANAIR V3 MULTI-DRIVE INTEGRAL PTO UNDERDECK SYSTEM**  
**PATENTED 160 CFM 7.2 KW GENAIR® SYSTEM WITH HYDRAULIC PUMP PROVISION**

**BID SPECIFICATIONS**

MODEL: V3 MULTI-DRIVE 160/7.2/HPP

Revised: October, 2010

- Type:** Vanair V3 Multi-Drive Integral Underdeck Single PTO System.
- Capacity:** 160 CFM free air at up to 175 psig. 6200 watts continuous rating with peak of 7200 watts. Up to 40 GPM hydraulic pump provision.
- V3 Multi-Drive:** Vanair V3 Multi-Drive gear box driven by PTO. V3 gear box to be capable of direct driving an air compressor or air compressor-generator combo (Genair) and hydraulic pump simultaneously with no belts, pulleys or tensioning devices. Compressor to be direct mounted to V3 gear box via custom flange designed to accept Sullair 10 series air end. V3 gear box to have provision to direct mount a hydraulic pump via SAE B pump pad. Entire unit with compressor-generator and hydraulic pump to fit within the frame rails of the chassis and achieve maximum ground clearance.
- Compressor:** Sullair 10 series Powertech 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.
- Air Intake Filters:** Separate two-stage, heavy duty, dry-type air filters shall be provided for air compressor.
- Air Receiver:** The receiver shall be ASME code approved rated at a 225 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, ¼ inch service valve and a spin-on air compressor oil filter with built in by-pass protection.
- 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. Vanair separator shall provide for enhanced air quality, reduced operating and maintenance cost and optimized compressor performance. Separator element to be warranted for 5-years or 3000 hours whichever comes first.
- Instrument Panel:** Panel to include compressor air pressure gauge, hour meter, compressor oil temperature gauge and over-temperature/over-pressure reset switch.
- 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 valve.
- 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 powder 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.
- Compressor Controls:** Pneumatic inlet control valve shall be provided to regulate compressor output from 0 to 100% in response to operator input.



- Generator:** Vanair model Genair 6.2 capable of producing a continuous rating of 6200 watts A/C power and peak rating of 7200 watts A/C power. Unit to be integrally coupled to tapered output shaft of female rotor. No belts, pulleys or tensioning devices. Must be built in accordance with US Patent Number 5242278
- Generator Control:** Remote mount control panel with on/off toggle switch 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
- Speed Control:** Electronically controlled engines speed control shall allow modulation of engine speed to match air demand.
- Driveline:** 2 ½ inch 1310 series driveline with universal joint, yoke and companion flange
- General:** The compressor shall be manufactured in an ISO 9001 certified quality system.
- Warranty:** The air end is warranted for life when adhering to the prescribed maintenance schedule.  
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.
- Service Centers:** The air compressor manufacturer MUST have factory authorized service centers located in each State of the United States of America and Canadian Provinces
- Options:** Hydraulic gear type pumps from 4 to 40 GPM  
Dual Pressure 100/150 PSI electrically or pneumatically activated allowing operator to instantly select multiple pressure settings  
Service Line moisture trap /Control Line moisture trap  
2 Quart line oiler  
Hose reels Automatic/Manual or Electric rewind in various capacities and sizes  
OSHA excess flow valve  
120/240 Dual Voltage Genair capabilities



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