



125/160/185/200 CFM UNDERDECK HYDRAULICALLY DRIVEN AIR COMPRESSOR

BID SPECIFICATIONS

125-160-185-200D
Revised: June 2011

- Type:** Vanair 125/160/185/200 UDHD PTO Driven air compressor. New and in current production
- Capacity:** 125 to 200 CFM free air at 100 psig. Compressor to be capable of 90 to 150 PSIG operation
- 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
- Hydraulic Motor:** Directly coupled gear type hydraulic motor.

Hydraulic Requirements & Input Speed:

CFM	125	125	160	160	185	185	200	200
Air Pressure	100	150	100	150	100	150	100	150
Hyd. Flow (GPM)	27.6	29.2	36.8	38.3	42.2	44.2	45.6	47.8
Hyd. Press. (PSI)	2100	2620	2200	2700	2400	2830	2510	2930
Input Speed (RPM)	1340	1370	1770	1780	2015	2040	2180	2205

Ratings per CAGI/PNEUROP PN2CPTC3

- Gear Ratio:** Air Compressor gear ratio shall be 3.94:1 to ensure lowest possible engine speed
- Air Intake Filters:** Separate two-stage, heavy duty, dry-type air filters with dust evacuators shall be provided for air compressor.
- Air Receiver:** The receiver shall be ASME code approved rated at a minimum of 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, 3/4 inch service valve and a spin-on air compressor oil filter.
- 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 to be warranted for 5-years or 3000 hours.
- 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 orifice.
- 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.
- Controls:** Pneumatic inlet control valve shall be integrated into compressor system and automatically modulate output from 0 to 100% in response to air demand
- General:** The compressor shall be manufactured in an ISO 9001 certified quality system.
- Warranty:** The rotary screw air compressor unit shall be warranted for life when following 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:**
- 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



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**specs subject to change without notice*

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