



**ADHD 125/160/185 CFM
ABOVEDECK HYDRAULIC DRIVEN
ROTARY SCREW AIR COMPRESSOR
BID SPECIFICATION
REVISED: April 17, 2019**

- Type:** Vanair® 125/160/185 ADHD hydraulically driven rotary screw air compressor. New and in current production.
- Capacity:** 125/160/185 CFM free air at up to 150 PSIG.
- Compressor:** Sullair® 8 series design oil injected 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:** Gear type hydraulic motor
- | | | | | | | |
|--------------------------|------|------|------|------|------|------|
| CFM | 125 | 125 | 160 | 160 | 185 | 185 |
| Air Pressure | 100 | 150 | 100 | 150 | 100 | 150 |
| Hyd. Flow (GPM) | 27.6 | 29.2 | 36.8 | 38.3 | 42.2 | 44.2 |
| Hyd. Press. (PSI) | 2100 | 2620 | 2200 | 2700 | 2400 | 2830 |
| Input Speed (RPM) | 1340 | 1370 | 1770 | 1780 | 2015 | 2040 |
- Ratings per CAGI/PNEUROP PN2CPTC3
- Compressor Drive:** Compressor hydraulic drive motor to be directly coupled to air compressor through a flexible coupling (no belt drives).
- Weight:** Dry weight (Lbs.):
730 standard side-mount receiver configuration with fittings
755 standard side-mount receiver configuration with fittings 185 CFM at 100 PSI
900 vertically stacked receiver with fittings
925 vertically stacked receiver with fittings 185 CFM at 150 PSI
- Dimensions:** 46.3L x 47.4W x 26.8H (In.) standard side-mount receiver configuration with fittings
46.3L x 47.4W x 26.8H (In.) standard side-mount receiver configuration with fittings 185 CFM at 100 PSI
45.9L x 35.7W x 42.9H (In.) vertically stacked receiver with fittings
48.4L x 35.7W x 42.9H (In.) vertically stacked receiver with fittings 185 CFM at 150 PSI
- Air Intake Filters:** Separate two-stage, heavy duty, dry-type air filters shall be provided for air compressor.
- Air/Fluid Separator:** Separator element to be located internally in air receiver tank. 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 provide provisions for automatic 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.



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- Cooling System:** Compressor cooling system shall allow rated air delivery and pressure operation continuously in 125 °F 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
- Mainframe and Enclosure:** Fully powder-coated galvanized mainframe and sheet metal enclosure with full service access.
- 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:**
- Dual Pressure 100/150 PSI Electric or Pneumatic
 - 20 - 60 Gallon Air Reservoirs
 - Aftercoolers
 - Air Hoses
 - Air Tools
 - Cold Weather Package to Prevent Freeze-Ups
 - Filter/Lubricator/Regulator (FLR)
 - Hose Reels and Fittings
 - OSHA Safety Valve (Velocity Fuse)
 - Post Drivers
 - Service/Control Line Moisture Separators
 - Tool Oiler/Lubricator