



AIR N ARC[®] 300H SERIES ALL-IN-ONE POWER SYSTEMS[®] ROTARY SCREW AIR COMPRESSOR GENERATOR, WELDER, BATTERY BOOSTER

BID SPECIFICATIONS

AIR N ARC 300 Hydraulic
Revised: JAN 2012

- Type:** Vanair[®] Air N Arc[®] 300 Hydraulic Series. New and in current production.
- Compressor:** Vanair encapsulated 40 cfm rotary screw air compressor system
- Compressor Capacity:** 40 CFM free air at 175 psig.
- Air Intake Filters:** Heavy duty, dry-type air filter shall be provided for air compressor.
- Air/Fluid Separator:** Separator to be externally mounted spin-on design. Vanair separator shall provide for enhanced air quality, reduced operating and maintenance cost and optimized compressor performance.
- Protective Circuit:** Machine will shutdown by bypassing hydraulic flow 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. Additional protections include a hydraulic flow bypass when belt access panel is opened, and when hydraulic fluid is over temperature. After any automatic safety shutdown, system reset must be pressed to re-engage.
- Compressor Cooling System:** Compressor cooling system shall allow rated air delivery and pressure operation continuously in 110 degree Fahrenheit ambient temperatures. Cooler to be mounted in a powder coated galvanneal sheet metal enclosure with a blower type fan assembly. Compressor fluid shall be filtered by a 25 micron full flow spin-on replaceable filter canister. A thermal valve and fan temperature switch are included to regulate compressor cooling.
- Inlet Controls:** Electric inlet control valve shall be integrated into compressor system and automatically modulate output from 0 to 100% in response to air demand
- Generator:** Totally brushless with capacitor, copper windings, bi-directional rotation, pure sine <6% distortion
- Generator Capacity:** 6800 watt continuous, 60Hz, single phase, 120V and 240V receptacles
- Welder:** 100 % duty cycle high frequency DC/CC Range 30 – 300 amps, DC/CV – Range 15 – 40 volts
- Booster:** 300 Amp 12 volt battery charge, 12 volt battery boost, and 24 volt battery boost
- Hydraulic Motor:** Gear type hydraulic motor with flow control valve to regulate flow to a designed flow of 19 GPM

Hydraulic Requirements:	19 gpm @ 2800 psi
Hydraulic Cooler:	Hydraulic cooling system shall allow rated functions up to 110 degree Fahrenheit ambient temperatures. Hydraulic fan and cooler are to operate when PTO is engaged and hydraulic temperature is over 100 degrees Fahrenheit to provide hydraulic cooling when unit and hydraulic system are loaded or unloaded.
Air Storage Tank:	4 gallon
Weight:	Unit dry weight 595 Lbs.
Dimensions:	Platform - 47.25 L x 21 W x 31 H (Inches)
Instrument Panel:	Panel to have quick disconnects and be capable of being remotely mounted. Panel to include display for AC generator displaying hertz and volts, hour meter, air pressure gauge, generator on/off switch, thermal breakers, 120V and 240V receptacles, weld cable connections, weld mode selector switch, digital display for welder amperage and welder and boosting voltage output, potentiometer for adjustment of amperage and voltage for weld mode, battery boost mode selector switch, battery booster cable connection, mode indicator lights and system fault lights.
Drive System:	Heavy duty belt-drive system. Belt to drive the generators to be poly-V serpentine belt with quiet channel technology and automatic tensionor. Belt for compressor to be poly-V serpentine belt with quiet channel technology and tensioner.
Metal and Tanks:	Fully powder coated with galvanneal sheet metal enclosure, ¼ plate steel main frame, integrated lift hook and full service access.
Warranty:	When following the prescribed maintenance schedule, the rotary screw compressor unit is warranted by Vanair for five (5) years, and all other major components are warranted for three (3) years. Consumable products such as filters and electrodes are not covered. This warranty does not cover damage caused by accident, misuse or negligence. If the unit is disassembled the warranty is void.
Service Centers:	Manufacturer MUST have factory authorized service centers located in each state of the United States of America and Canadian provinces
Options:	Remote panel connection harness's in 4 foot increments available in 6 foot to 22 foot lengths, cable extension segments, welding helmets with auto darkening lenses, vibration isolators, remote air tanks, maintenance kits.



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