



# AIR N ARC<sup>®</sup> 300 SERIES ALL-IN-ONE POWER SYSTEMS<sup>®</sup> ROTARY SCREW AIR COMPRESSOR GENERATOR, WELDER, BATTERY BOOSTER

## BID SPECIFICATIONS

AIR N ARC 300 Gas  
Revised: August 2011

- Type:** Vanair<sup>®</sup> Air N Arc<sup>®</sup> 300 Gas Series. New and in current production.
- Compressor:** Vanair encapsulated 40 cfm rotary screw air compressor system with clutch to eliminate horsepower consumption during unloaded condition.
- Compressor Capacity:** 40 CFM free air at 175 psig.
- Air Intake Filters:** Separate two-stage, heavy duty, dry-type air filters with dust evacuators 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:** 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 110 degree Fahrenheit ambient temperatures. Cooler to be mounted in a powder coated galvaneal sheet metal enclosure with a suction type fan assembly. Compressor fluid shall be filtered by a 25 micron full flow spin-on replaceable filter canister. A fan temperature switch is included to regulate compressor cooling. An additional fan temperature switch is included to regulate enclosure 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
- Engine:** V-twin fuel injected, electric start gasoline engine, Kohler model Command Pro 29 EFI, air cooled, 29 HP per SAE J1940 specification, automatic electronic throttle control

<b>Battery:</b>	12 volt sealed lead acid – Per DOT specification 49 CFR 173.159 - Optional
<b>Fuel Capacity:</b>	12 gallon
<b>Air Storage Tank:</b>	4 gallon
<b>Weight:</b>	Unit dry weight 700 Lbs.
<b>Dimensions:</b>	Platform - 47.25 L x 21 W x 31 H (Inches)
<b>Instrument Panel:</b>	Panel to have quick disconnects and be capable of being remotely mounted. Panel to include engine start/stop function, digital fuel gauge and hour meter, air compressor on/off switch, air pressure gauge, generator on/off switch, thermal breakers, 120V and 240V receptacles, weld cable connections, weld mode selector switch, digital display for amperage and 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.
<b>Drive System:</b>	Heavy duty belt-drive system. Belt to drive the generators to be poly-V serpentine belt with quiet channel technology and automatic tensioner. Belt for compressor to be poly-V serpentine belt with quiet channel technology and tensioner.
<b>Metal and Tanks:</b>	Fully powder coated with galvanneal sheet metal enclosure, ¼ plate steel main frame, integrated lift hook and full service access.
<b>Warranty:</b>	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. (NOTE: Engines are warranted separately by the engine manufacturer.) Batteries are warranted for one (1) year. 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.
<b>Service Centers:</b>	Manufacturer MUST have factory authorized service centers located in each state of the United States of America and Canadian provinces
<b>Options:</b>	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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*\*specs subject to change without notice*

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