



**AIR N ARC® 300 DIESEL
ALL-IN-ONE POWER SYSTEM®
ROTARY SCREW AIR COMPRESSOR/WELDER/
GENERATOR/BATTERY BOOSTER/BATTERY CHARGER
BID SPECIFICATION
REVISED: June 26, 2019**

Type:	Vanair® Air N Arc® 300 Diesel. New and in current production.
Welder:	High frequency DC/CC welding, 270 AMP at 100% duty cycle, CC: 40 – 300 AMP operating range, CV: 15 – 30V
Generator:	Totally brushless with capacitor, copper windings, bi-directional rotation, <6% distortion
Generator Capacity:	7 kW peak, 6.8 kW continuous, AC power, 60 Hz, single phase, 120V and 240V outlets.
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 up to 175 PSIG
Battery:	12V sealed lead acid – Per DOT specification 49 CFR 173.159
Booster/Charger:	300 AMP 12V/24V boost, 50 AMP 12V charge
Engine:	Electric start diesel engine, Kubota® model DH902, liquid cooled, 25 HP tier 4 final with high temperature and low oil pressure shut down.
Fuel Capacity:	12 gallon integral tank or plumb to the chassis
Air Storage Tank:	4 gallon integrated
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 valve.
Cooling System:	Compressor cooling system shall allow rated air delivery and pressure operation continuously in 110 °F ambient temperatures. Cooler to be mounted in a powder coated galvanized 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 is 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.



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Weight:	Dry weight (Lbs.): 870
Dimensions:	Platform - 47.5L x 21.0W x 33.4H (In.)
Instrument Panel:	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, 120 V and 240 V 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.
Drive System:	Heavy duty belt-drive system. Belt to drive the generators to be poly-V serpentine belt with quiet channel technology. Belt for compressor to be poly-V serpentine belt with quiet channel technology and tensioner.
Metal and Tanks:	Fully powder-coated with galvanized 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 the lifetime of the air end with adherence to the prescribed maintenance schedule, 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.
Service Centers:	Manufacturer MUST have factory authorized service centers located in each state of the United States of America and Canadian provinces.
Options:	Welding Cables - 25', 50' Welding Helmet with Auto Darkening Lens Cable Extensions Battery Boost Cables Fuel Tank – Slimline 11 Gallon Remote Air Tank – 30 Gallon Remote Condensation Drain Maintenance Kits Welding Rods Cold Weather Kits GFCI Kit Available