



**AIR N ARC® 300 GAS
ALL-IN-ONE POWER SYSTEM®
RECIPROCATING AIR COMPRESSOR/WELDER/
GENERATOR/BATTERY BOOSTER/BATTERY CHARGER**

**BID SPECIFICATION
REVISED: August 24, 2026**

Type:	Vanair® Air N Arc® 300 Gas. In current production.
Compressor:	Vanair® encapsulated rotary screw air compressor system with clutch to eliminate horsepower consumption during unloaded condition.
Compressor Capacity:	40 CFM at up to 175 PSI max. Factory set to 150 PSI.
Generator:	Totally brushless with capacitor, copper windings, bi-directional rotation, <6% distortion.
Generator Capacity:	7kW peak, 6.8kW continuous at 60Hz, AC power, single phase, 120V/240V.
Engine:	Vanair® VNR750EFI: V-twin, electric start gasoline engine, air cooled, 25 HP, electronic fuel injected, and automatic electronic throttle control.
Welder:	High frequency DC welding, 270A at 100% duty cycle. CC: 40-300A, CV: 15-30V.
Battery:	12V sealed lead acid – per DOT specification 49 CFR 173.159.
Battery Boost/Charge:	300A, 12/24V boost and 50A, 12V charge.
Fuel Capacity:	12 gallon integral tank or tied to 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 costs 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 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.

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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.
Weight:	Dry weight: 700 lbs.
Dimensions:	47.1L x 21.5W x 30.9H (in.) 47.1L x 24.6W x 30.9H (in.) with fittings.
Control 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, 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.
Drive System:	Heavy-duty belt-drive system. Belt to drive the generators to be poly-V serpentine belt with automatic tensioner. Belt for compressor to be poly-V serpentine belt with tensioner.
Metal and Tanks:	Fully powder-coated galvanized sheet metal enclosure, 1/4" plate steel main frame, integrated lift hook and full-service access.
Warranty:	The air compressor unit shall be warranted for life when following the prescribed maintenance schedule, and all other major components are warranted for three (3) years. 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 Welding rods Battery boost cables Cable extensions Fuel tank – slimline 11 gallon Remote air tank – 30 gallon Remote condensation drain GFCI kits Maintenance kits – engine and compressor Cold weather kits Machine covers
