



**AIR N ARC® 330 DIESEL
ALL-IN-ONE POWER SYSTEM®
WITH LINCOLN ELECTRIC® WELDER
ROTARY SCREW AIR COMPRESSOR/WELDER/
GENERATOR/BATTERY BOOSTER/BATTERY CHARGER
BID SPECIFICATION
REVISED: August 20, 2024**

Type:	Vanair® Air N Arc® 330 Diesel with Lincoln Electric Welder. New and in current production.
Welder:	DC Multi-Process Arc Welder with Lincoln Electric Chopper Technology DC/CC welding, 330A CC: 35 – 330A operating range, CV: 14 – 40V
Generator:	Lincoln Electric AC generator. Brushed with AVR, copper windings, <5% distortion. Class H insulation.
Generator Capacity:	11.5kW peak, 10kW continuous AC power, 60 Hz @ 3600 RPM, single phase, Dual 20A 120V GFCI and Single 50A 240V outlet. Lincoln Electric® AC Generator.
Compressor:	Vanair® 40 CFM rotary screw air compressor system with clutch and electronic inlet control to maximize efficiency, save horsepower, and reduce fuel consumption when not actively using air power.
Compressor Capacity:	40 CFM @ 150 PSIG, up to 175 PSIG
Booster/Charger:	330A 12/24V boost, 50A 12/24V charge
Engine:	Electric start diesel engine, Kubota® model D902, liquid cooled, 24.8 HP tier 4 final with high temperature and low oil pressure shut down. Electronically governed for quick and accurate throttle response.
Fuel Capacity:	Tied to the host vehicle.
Air Intake Filters:	Separate two-stage, heavy duty, dry-type air filters with dust evacuators.
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 system to automatically disengage 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 125°F ambient temperatures. Cooler to be mounted in a powder coated galvanized sheet metal enclosure with a blower type brushless electric 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:	Automatic inlet control valve regulates output pressure to match desired set-point.
Host Vehicle Charge Back:	150A @ 14VDC

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Weight:	Dry weight (Lbs.): 750
Dimensions:	Platform - 47.5 L x 21.4 W x 25.6 H (In.)
Instrument Panel:	Panel to have quick disconnects and be remotely mountable. Panel to include: on/off function with removable key, thermal breakers, 120V GFCI and 240V receptacles, weld / battery boost connections and connectors for MIG/TIG weld processes. Also includes a display allowing user to select Charge / Boost / Weld / Compressor modes while viewing hours, compressor pressure and system faults, as well as a rotary selector knob for easy navigation and setting adjustment.
Drive System:	Direct coupled generator and heavy-duty belt-drive system. Belt for compressor to be poly-V serpentine belt with automatic tensioner.
Metal and Tanks:	Fully powder-coated with galvalume sheet metal enclosure, integrated lift hooks 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:	Lincoln Electric Accessories Welding Cables - 25, 50 Welding Helmet with Auto Darkening Lens Cable Extensions Battery Boost Cables Remote Fuel Tank Remote Air Tank Remote Condensation Drain Welding Rods 120V Engine Block Heater 3kW Inverter Maintenance Kits 240V GFCI Kit Bolt-On Frame Kit EPEQ® Portable EV Charger