



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

Type:	Vanair® Air N Arc® I-300 Diesel Series. 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 175 PSIG at high speed 30 CFM free air at 175 PSIG at idle
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 with automatic glow plugs, Kubota® model DH902, liquid cooled, tier 4 final 25 HP with high temperature and low oil pressure shut down.
Fuel Capacity:	With included 12V fuel pump you can draw fuel from chassis tank (diesel only), or optional 12 gallon slimline tank.
Air Storage Tank:	4 gallon integrated
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, compressor relief valve, air 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
Hydraulic Circuit:	Variable displacement piston pump, Capable of closed or open center hydraulic crane systems. Output is up to 13 GPM maximum pressure output is 3000 psi. Rated at 10 GPM at 2000 PSI.

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- Truck/Body Interface:** Unit can be remotely started from crane remote. Unit ties to chassis battery to keep batteries charged when running safety and work lights. Unit designed to pull fuel from chassis fuel tank.
- Weight:** Dry weight with control panel (Lbs.): 852
- Dimensions:** Unit - 47.1L x 21.0.W x 33.4H (In.) Unit with fittings – 47.1W x 25.2W x 33.4H (In.)
- Instrument Panel:** Panel to have quick disconnects and be capable of being remotely mounted with use of factory supplied harness. Panel to include engine start/stop function, hour meter, air compressor on/off switch, air pressure gauge, 2 air discharge ports, hydraulic on/off switch, generator on/off switch, thermal breakers, 120V GFCI 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, and hydraulic pump 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 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 the lifetime of the air end with adherence to the prescribed maintenance schedule, generators are warranted for three (3) years. (NOTE: Engines are warranted separately by the engine manufacturer.) General, no wear components, are warranted for one (1) year. Consumable products such as filters 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
Hose Reels
Dry Cell Battery
Maintenance Kits
Welding Rods
Cold Weather Kits
GFCI Outlet for Protection of 120V/240V – Remote Panel Machines Only