
Type:	Vanair® Air N Arc® 300 Hydraulic Series. In current production.
Welder:	High frequency DC/CC welding, 270A @ 100% duty cycle, CC: 40 – 300A operating range, CV: 15 – 30V
Generator:	Totally brushless with capacitor, copper windings, bi-directional rotation, <6% distortion
Generator Capacity:	7kW peak, 6.8kW continuous, AC power, 60 Hz, single phase, 120V and 240V outlets.
Compressor:	Encapsulated 40 CFM rotary screw air compressor system. The compressor is equipped with advanced Auto Start/Stop Technology for optimized performance when in air compressor mode. After 2 ½ minutes of inactivity, the system automatically bypasses hydraulic flow to minimize noise and reduce wear on components. When air demand is detected, the system seamlessly increases hydraulic flow to meet the required air output, ensuring efficient and responsive operation. Includes 7W, 12VDC air inlet heater.
Compressor Capacity:	40 CFM free air at up to 175 PSIG
Charger/Booster:	300A 12V/24V boost 50A 12V charge
Hydraulic Motor:	Gear type hydraulic motor with flow control valve to regulate flow to a designed flow of 19 GPM or 14.5 GPM on reduced flow models
Hydraulic Requirements:	Multifunction: 19 GPM @ 2800 PSI, Single function: 14.5 GPM @ 2500 PSI
Hydraulic Cooler:	Hydraulic cooling system shall allow rated functions up to 110°F ambient temperatures. Hydraulic fan and cooler are to operate when PTO is engaged, and hydraulic oil temperature is over 100°F to provide hydraulic cooling when unit and hydraulic system are loaded or unloaded.
Air Storage Tank:	4 gallon, integrated
Air Intake Filters:	Heavy duty, dry-type air filter 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:	Machine will shut down by bypassing hydraulic flow in case of high compressor temperature or over pressurization. Additional protective features provided include automatic blow down valve, air tank relief valve and minimum pressure valve. Additional protections include a hydraulic flow bypass when belt access panel is opened, and when hydraulic fluid is over temperature. After any automatic safety shutdown, system reset must be pressed to re-engage.

**AIR N ARC® 300 HYDRAULIC
ALL-IN-ONE POWER SYSTEM®**

Compressor Cooling System:	Compressor cooling system shall allow rated air delivery and pressure operation continuously in 110°F degree 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 and fan temperature switch are included to regulate compressor cooling.
Inlet Controls:	Electric inlet control valve shall be integrated into compressor system and automatically modulate output from 0 – 100% in response to air demand.
Weight:	Dry weight with control panel (Lbs.): 621
Dimensions:	48.7L x 21.0W x 30.9H (In.)
Instrument Panel:	Panel to have electrical quick disconnects and be capable of being remotely mounted. Panel to include display for AC generator displaying hertz and volts, hour meter, air pressure gauge, generator on/off switch, thermal breakers, 120V and 240V receptacles, weld cable connections, weld mode selector switch, digital display for welder amperage and voltage, boosting 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. Belt for compressor to be poly-V serpentine belt 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. 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 Remote Air Tank – 30 Gallon Remote Condensation Drain Welding Rods