



**POWERFLEX™ AE GAS
MODULAR SYSTEM
ROTARY SCREW AIR COMPRESSOR/GENERATOR**

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

Type:	Vanair® PowerFlex™ AE Gas. In current production.
Compressor:	Vanair® encapsulated rotary screw air compressor system with clutch to eliminate horsepower consumption during unloaded condition. Automatic throttle control with air demand.
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.
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: 675 lbs. with fuel tank. 630 lbs. without fuel tank.	
Dimensions:	47.1L x 21.1W x 30.9H (In.) 47.5L x 24.2W x 34.1H (In.) with fittings	
Control Panel:	Panel to be capable of being remotely mounted with use of optional factory supplied harness. Panel to include engine start/stop function, engine fault lights, fuel gauge, hour meter, air compressor ON/OFF switch, and generator ON/OFF switch.	
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, ¼" plate steel main frame, integrated lift hook and full-service access.	
Warranty:	The air compressor unit shall be warrantied for life when following 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.	
Cold Weather:	Optional 12V heater blankets for compressor inlet valve, engine oil pan, and compressor sump.	
Options:	Remote control panel Remote panel harness extensions Air hoses, hose reels & fittings OSHA safety valve (velocity fuse) Filter/lubricator/regulator (FLR) Air reservoirs Service/control line moisture separators Tool oiler/lubricator Air aftercooler Remote condensation drain AC generator outlet box Vibration isolator kits GFCI kits Maintenance kits - engine & compressor	
	Cold weather kits Machine covers	