



POWERFLEX™ AE
DIESEL DRIVEN ROTARY SCREW
AIR COMPRESSOR/GENERATOR
BID SPECIFICATION
REVISED: July 22, 2025

Type:	Vanair® PowerFlex™ AE. In current production.
Compressor:	Vanair® encapsulated 40 CFM 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 150 PSIG.
Air Intake Filter:	Separate, 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:	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 galvanneal 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.
Generator:	Totally brushless with capacitor, copper windings, bi-directional rotation, <6% distortion.
Multifunction:	Rated continuous duty based on engine HP = 40 CFM @ 100 PSI + 3000 Watts (<104°F ambient, <2000 ft. altitude)
Generator Capacity:	6.8kW continuous, 60Hz, single phase, 120/240V
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. 60A alternator and energize to run fuel solenoid.
Fuel Capacity:	12-gallon or tied to chassis.
Air Storage Tank:	4-gallon integrated.
Weight:	Dry weight (Lbs.): 790
Dimensions:	47.6L x 21.0W x 33.4H (In.)

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Instrument 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 quiet channel technology. Belt for compressor to be poly-V serpentine belt with quiet channel technology.
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 has a lifetime warranty by Vanair®, generator is warranted for three (3) years. (NOTE: Engines are warranted separately by the engine manufacturer.)
Service Centers:	Manufacturer MUST have factory authorized service centers located in each state of the United States of America and Canadian provinces.
Cold Weather:	Includes 12V heater blankets for compressor inlet valve, engine oil pan, compressor sump.
Options:	Remote Control Panel Maintenance Kits Air Hoses, Hose Reels and Fittings OSHA Safety Valve (Velocity Fuse) Filter/Lubricator/Regulator (FLR) Battery Harness Air Reservoirs Service/Control Line Moisture Separators Tool Oiler/Lubricator Air Aftercooler