



Bid Specifications: PA250v-T4F

MANUFACTURER	BOBCAT COMPANY		
BRAND	BOBCAT		
MODEL	PA250VWDO		
ENGINE	TIER 4 FINAL		
	Low Pressure Setting		High Pressure Setting
Make	Doosan		
Model	D2.4L		
# of Cylinders	4		
Displacement (cu in/l)	147 / 2.4		
Rated Speed (rpm)	2550		2200
Idle Speed (rpm)	1700		1700
BHP @ Rated Speed (SAE hp/kW)	74 (55.1)		72.6 (54.1)
Fuel/Cooling	DIESEL/WATER		
Electrical Voltage	12		
Engine Oil Capacity (US Quarts/Liters)	9.6 / 9.1		
Radiator Coolant Capacity (US Gal/Liters)	2.6 / 9.8		
Altitude Capability (Feet/Meters)	10,000 / 3048		
Fuel (GPH/LPH):			
75% Load	2.9 / 11.0		2.8 / 10.6
100% Load	3.3 / 12.5		3.1 / 11.7
Fuel Tank Capacity (gal/l)	34.5 / 130.6		
Min Operating Time (Hours)	8.7		
COMPRESSOR			
Type	ROTARY SCREW – SINGLE STAGE		
Free-Air Delivery (cfm/l-sec)	250 / 118		210 / 99
Rated Operating Press (psig/bar)	100 / 7		150 / 10.3
Pressure Range (psig/bar)	80 to 175 / 5.5 to 12.1		
Air Discharge Outlet Size (in/mm)	0.75" NPT		
Air Discharge Outlet Quantity	2		
Separator Tank Volume (US Gal/Litres)	5.0 / 18.9		
Oil Capacity (Initial Fill) (US Gal/Litres)	3.5 / 13.3		
DIMENSIONS W/RUNNING GEAR			
Overall Length (in/mm)	142.7 / 3625		
Overall Width (in/mm)	68.8 / 1746		
Overall Height (in/mm); less lifting eye	67.3 / 1710		
Track Width (in/mm)	60.3 / 1530		
Tire Size	15"		
Shipping Weight (lb/kg) no fuel	2357 / 1069		
Working Weight (lb/kg) with fuel	2595 / 1177		
DIMENSIONS WITHOUT RUNNING GEAR			
Overall Length (in/mm)	94.6 / 2403		
Overall Width (in/mm)	49.3 / 1252		
Overall Height (in/mm); add 5" (127 mm) for lifting eye	56.3 / 1431		
Shipping Weight (lb/kg) no fuel	2147 / 974		
Working Weight (lb/kg) with fuel	2385 / 1082		

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STANDARD FEATURES

PACKAGE

- Instrument and control panel with lockable door, front mounted.
- Shock mounted engine and compressor.
- Full length lockable side doors with pneumatic lift springs and no-rust aluminum hinges.
- Rear access panel for cleaning heat exchangers.
- Heavy-duty suspension running gear with 15" tires.
- E-Z lube axle-bearing fittings.
- "A" frame drawbar with safety chains and hooks.
- Detachable drawbar.
- 3 position adjustable height hitch-pintle eye type; (3" inside diameter).
- Retractable heavy-duty screw jack with pad foot.
- Removable resilient polyethylene fenders.
- Enclosure 14-gauge sheet metal with durable textured paint.
- Trailer running gear, 2 tail lights for running, brake, and turn signals; 4-wire cable, side marker lights, reflectors, and license plate light to comply with US DOT/Federal MVSS 49CFR571.
- Single point, external lifting bail.
- Galvanneal Enclosure.
- Large interior tool box (61" long x 10" wide x 14" deep).
- Engine mounted pusher fan (cool box).
- Rain cap exhaust.

COMPRESSOR

- The compressor type shall be a single stage, oil flooded, asymmetrical rotary screw.
- Two-stage, heavy duty, dry type air cleaner with replaceable element located inside the enclosure.
- 25-micron spin-on oil filter element.
- Oil separation system: Two-stage system with remote, no-spill, spin-on separator element and vertical tank with sight gauge and over-fill protection.
- Air-to-oil finned tube oil cooler.
- Engine direct driven flexible coupling.
- Two-year or 4000-hour warranty. Five years or 10,000-hour warranty available when Bobcat fluids and filters are used.

ENGINE

- Two-stage, heavy duty, dry type air cleaner with replaceable element located inside the enclosure.
- Oil drain access cover.
- Electric starting system with Glow Plugs and 1000 CCA batteries.
- A fuel/water separator, a replaceable fuel filter, and a fuel tank drain.
- Two-year or 4000-hour warranty. Five years or 10,000-hour warranty available when IR fluids and filters are used.
- See through, no rust, polyethylene, 34.5-gallon fuel tank.
- Rain cap.



SAFETY FEATURES

- Starter protection prevents engagement while alternator is turning.
- Automatic safety shutdowns: high discharge air temperature, low engine oil pressure, and high engine coolant temperature, and low fuel level.
- Manual and automatic blowdown valves.
- Minimum pressure device.
- ASME safety relief valve.
- Fan guard.
- Towing safety chains with safety hooks.
- Trailer lighting and electric brakes comply with US DOT/Federal MVSS 49CFR571.
- Operating and maintenance manual.
- Operating and safety decals.

COMPRESSOR

- The compressor type shall be a single stage, oil flooded, asymmetrical rotary screw.
- The actual air delivery in low pressure mode shall be 250 cfm (7.1 M³/min).
- The actual air delivery in high pressure mode shall be 210 cfm (5.9 M³/min).
- The rated operating pressure in low pressure mode shall be 100 psig (8.62 bar).
- The rated operating pressure in high pressure mode shall be 150 psig (10.3 bar).
- The pressure range shall be 80-175 psig (5.5-12.1 bar).
- The regulation system shall be 100% stepless.
- The air service valve shall be (2) ¾"

INSTRUMENT AND CONTROLS

- Large 5" LED lighted pressure gauge and CAN driven digital function interface display within the control panel that displays:
 - Engine RPM (Default Screen)
 - Ambient Temperature
 - Airend Temperature
 - Separator Tank Temperature
 - Coolant Temperature
 - Manifold Temperature
 - Engine Target RPM
 - Manifold Pressure
 - Engine Oil Pressure
 - Regulation System Pressure
 - Ambient Pressure
 - Battery Voltage
 - Diagnostic fault codes with text for trouble shooting
 - Fuel Level Percentage Option (Becomes Default Screen when fuel sender is plugged in)
- LED lighted power button.
- Hour meter
- Rubberized button interface that controls engine crank with oil pressure by-pass, engine stop, high/low pressure selection, service air, and digital screen enter key.
- Convenient start-up controls with unloaded warm up and push-button starting
- Dual pressure regulation. Two settings are 100 psig/low and 150 psig/high. The pressure range is 80 to 175 psig.



FACTORY INSTALLED OPTIONAL FEATURES

INSTRUMENT AND CONTROLS

- Fuel level display with low fuel level shutdown
- Air/oil separator element service indicator (on separator tank).

TOWING OPTIONS

- 2" or 2-5/16" ball coupler.
- Long drawbar (85").
- 8-position adjustable height hitch (19" to 33", 2" increments).
- Electric brakes; with or without parking brake, Hydraulic brakes; with or without parking brake, or parking brake only. Towing lights - four tail lights with reflectors.

MISCELLANEOUS OPTIONS--FACTORY INSTALLED

- Hose reel - 100' capacity for 3/4" (19mm) ID hose, single **OR** double reel with OSHA valve (s), and 3/4" globe type service valves. Plus, two extra 3/4"(19mm), 1/4 turn service valves on reel base.
- Hoses 50' (15.2m) or 100' (30.5m) either installed on reel or shipped loose.
- Hose bracket mounted on drawbar; holds up to 100'x3/4" hose.
- 2-quart line oiler; shipped loose or will be mounted if ordered with hose reel.
- Minimum pressure valve.
- Less running gear (less axle, fenders, wheels, and drawbar).
- Spare tire shipped loose.
- Spare tire mounted if space available on the long drawbar (85")
- Central drains (running gear and less running gear).
- Spark arrestor.
- Additional service outlets.
- Rear bumper.
- Mud flap on each fender.
- Rear stabilizer screw jack with padfoot.
- Pad foot or pneumatic wheel instead of caster wheel.
- OSHA valves (must be sized for cfm of the air-consuming device).
- Engine block heater (110volt/1ph/60hz).
- Air filter safety element (three stage filtration).
- Fuel tank strainer
- Fuel tank drain
- Locking fuel fill (lock not included).
- Key lock side doors with 2 keys.
- Special paint - lead free only (requires DuPont paint number for Elite®)
- Amber roof light; revolving or strobe.
- Extra manuals



SPECIFICATIONS WITH COMMON OPTIONS*

*indicates factory installed options in text below.

TYPE:

- Self contained, fully enclosed, diesel engine driven, heavy duty portable air compressor mounted on a two- wheel trailer with a minimum rated capacity of 210 cfm, free air delivery, at an operating pressure of 150 and of 250 cfm, free air delivery at an operating pressure of 100 psi in accordance with ISO 1217.
- The rated pressure shall be measured after oil separation.

GENERAL:

- The equipment shall be a standard product of the manufacturer. The compressor unit shall meet the US/EPA noise level regulations of 76 dBa at 7 meters.
- The manufacturer shall have local parts and service facilities capable of complete machine overhaul, ensuring minimum down time. Additionally, the compressor manufacturer shall have a flexible airend repair program; i.e., parts and training may be obtained to make repairs, or the airend may be exchanged for a new or remanufactured unit. The equipment shall adhere to the specifications contained herein.

ENGINE:

- The diesel engine shall be an industrial water-cooled four cylinder, with an intermittent rating of no less than 74 SAE brake horsepower, at 2550 rpm and 72.6 SAE brake horsepower at 2200 rpm.
- The engine shall have a 12-volt electrical system and the batteries shall have a minimum rating of 1000 cold cranking amps in accordance with SAE J537 specifications for a 30 second test.
- A dedicated heavy duty, two stage, dry type air cleaner, with replaceable element and an automatic filter maintenance indicator, shall be used to filter intake air.
- The fuel system shall include a no-rust polyethylene fuel tank with a minimum capacity of 34.5 gallons, a fuel/water separator, a replaceable fuel filter, and a fuel tank drain.
- Engine starting and warm up shall be achieved with Glow Plugs and the compressor in the no-load state.
- The engine oil drain shall have an access cover.

COMPRESSOR AIREND:

- The compressor airend shall be oil flooded rotary screw type with asymmetrical rotor profiles incorporating tapered roller thrust bearings.
- The airend shall be driven through a flexible coupling to isolate engine and compressor vibrations. The coupling shall be direct drive by the engine flywheel.
- An inlet unloader valve shall be used to provide step-less engine speed control to match demand.
- A dedicated heavy duty, two stage, dry type air cleaner, with replaceable element, and automatic filter maintenance indicator shall be used to filter intake air.



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COOLING SYSTEM:

- The engine and airend heat exchangers shall be finned tube type coolers arranged for easy cleaning. Access panel shall be on the rear enclosure for cleaning accessibility.
- The cooling air fans shall be mounted to drawing cool air through the compressor unit before entering the heat exchangers to maintain internal package temperatures of no more than 20 degrees F above that of the ambient.
- The radiator fill shall be easily accessible for routine maintenance and protected by a cover.

COMPRESSOR OIL SYSTEM:

- The compressor oil system shall incorporate a vertical separator tank, a temperature bypass valve, an oil cooler, and a 25-micron spin-on oil filter. The separator tank shall meet ASME Section VIII code requirements, have a minimum volume of 6 gallons (22L), and include an oil level sight gauge and over-fill protection.

TRAILER:

- The trailer shall be a two-wheel design using heavy duty suspension running gear with 15" tires, E-Z Lube axle bearing fittings, and a trackwidth of no less than 60".
- The trailer shall be of welded steel construction and include a replaceable, bolt-on "A frame" drawbar with three position hitch, safety chains with hooks, screw jack with caster wheel resilient polyethylene bolt-on fenders, electric brakes with break-away switch, with recessed towing lights, reflectors, side marker lights, and lighted license plate bracket.
- Trailer lighting and brakes to comply with US DOT/Federal MVSS 49CFR571.
- The engine and airend shall be rubber mounted directly to the trailer to minimize vibration.
- An external, single point, lifting bail capable of lifting the complete unit shall be included.

ENCLOSURE:

- A 14-gauge (.075"/1.91mm) galvanized sheet metal housing shall fully enclose the compressor unit providing protection as well as noise attenuation. Enclosure shall be protected by durable textured paint.
- A dedicated tool storage area with a minimum depth of 14"(.35m), minimum width of 10"(.25m), and length of 61"(1.54m), shall be incorporated within the enclosure.
- Access for routine maintenance and tool storage shall be provided through large full-length side doors.
- These doors shall be lockable and equipped with no-rust aluminum hinges and pneumatic lift springs.

INSTRUMENTS & CONTROLS:

- The instruments and controls shall be clearly labeled and located on the front of the unit, accessible without opening the main side doors, and protected with a separate unobstructed lockable door.
- Engine starting shall be achieved using a push button that includes engine oil pressure bypass and unloaded warm-up/start run.
- An electronic micro-processor control interface system shall provide digital data on operation, control, warning, and fault signal diagnosis of the compressor and engine.
- The instrument panel shall include the following LED lighted function displays: hour meter, tachometer, discharge air pressure, discharge air temp, engine oil pressure, engine coolant temp, optional low fuel level and shutdown, and all safety shutdowns.
- Diagnostic fault codes with text explanation shall indicate alternator charge malfunction warning, optional low fuel level shutdown, and all safety shutdowns.
- Multiple fault codes with text support shall be available for trouble shooting.

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SAFETY FEATURES:

- The compressor unit shall incorporate the following features to ensure operator safety and to protect the equipment: fan guards meeting OSHA recommendations, operating and maintenance manuals, operating and safety decals in accordance with ANSI Z535.4-1996, automatic and manual blowdown valves, an ASME approved pressure relief valve on the oil separator tank, a starter protection system to prevent cranking of the engine starter when the alternator is turning, safety shutdown devices in case of high compressor discharge air temperature, low engine oil pressure, high engine coolant temperature, and low fuel.

WARRANTY:

- The air compressor package shall be warranted to be free of defects in material and workmanship on all components for a period of one year or 2000 operating hours, whichever occurs first. Tires and battery carry the manufacturer's warranty. The engine/air end power train shall be warranted for two years or 4000 hours, whichever occurs first.

*indicates options in text above.