

# UTILITIES DEPARTMENT PURCHASE REQUISITION FORM



General Information to be included in the PO. It is required that the information be complete to ensure that the requestor receive the requested service.

Name:	360 Energy Solutions LLC	Requisition No.**	
Vendor # OR Address:	8510 nw 68 st	**Note: Provided by ADMIN	
	Miami, FL 33166	Supervisor's Name	Akin Ozaydin
		Requestor's Name	Michael Stanton
Phone:	786-348-2156		
Fax:	786-348-2166		

## INSTRUCTIONS

- \* Requisition must be complete and printed legibly. Incomplete or illegible requisitions will be returned.
- \* Include both quantity and unit of measure, i.e., cases, pkg, boxes, etc.
- \* ITEM must include vendor item number (if applicable), and specific description.
- \* Estimated shipping and handling must be included, if applicable.
- \* Justification/Comments must be filled out completely, with resolution number, if applicable.
- \* **Date of Approval to be filled out by the Utility Administrative Officer.**

## NO PURCHASES SHALL BE MADE PRIOR TO RECEIVING PURCHASE ORDER.

Initial Request Date:		Section:	
Date Needed:		Delivery Location***:	
Date of Approval:			

Note \*\*\* ☐ Same as address in General Info.

QUANTITY	UNIT	REQUESTED ITEM	UNIT COST	TOTAL
1		2025 PA185VWDO-T4F Portable Air Compressor Package	\$27,465.00	\$27,465.00
Total:				\$27,465.00

## Checklist: The following items must accompany all requisition requests OR be identified

Quote Attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Budgeted Item <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Freight Charges Listed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	New Vendor? <input checked="" type="checkbox"/> Yes * <input type="checkbox"/> No
City Contract/Piggyback/Sole Source	Is a transfer required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

\*Note: Requires a W-9

## Justification/Comments:

This new air compressor will replace our old, worn-out unit, enabling us to carry out critical fieldwork with greater efficiency, reliability, and cost-effectiveness.

## If requisition exceeds \$10,000 MUST BE SIGNED by the Director or Deputy Director of Utilities.

Resolution Number:		Supervisor Signature:	
Account Number:	450-910-564700-533	Assistant Director's Signature:	
Account Name:	Equipment & Machinery-Equipm	Administrative Manager Signature:	
Account BALANCE:	\$90,000	Director's Signature:	
BS&A Contract Number:			



360 Energy Solutions LLC  
8510 NW 68 St  
Miami, FL. 33166  
Phone: 786-348-2156  
Fax: 786-348-2166  
www.360energysolutions.net

COMPANY:	SOURCEWELL - CITY OF COOPER CITY	DATE:	3/26/2025
CONTACT:	STEVE BLANCHARD	CUST. PO#	QUOTE
ADDRESS:	11791 SW 49 STREET	CUST. ACCT. #	
CITY, ST, ZIP:	COOPER CITY	FLORIDA	33330
PHONE #	954-434-5519	QUOTE #	-2549
EMAIL:	<a href="mailto:SBLANCHARD@COOPERCITY.GOV">SBLANCHARD@COOPERCITY.GOV</a>		

SHIP TO:	360 ENERGY SOLUTIONS INC	FOB:	Statesville, NC
ADDRESS:	8510 NW 68TH STREET	PREPAID: ( )	
CITY, ST, ZIP:	MIAMI	FLORIDA	33166
COLLECT: ( )			

ITEM	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1 - New	Year- 2025 PA185VWDO-T4F Portable Air Compressor Package	\$ 26,315.00	\$ 26,315.00
	Standard Machine Package		
	OPTION # 46864302		
	Pricing provided is per the Sourcewell Contract # 020923-CEC		
	List Price per unit is \$41,117.00 - Discount 36% = \$26,315.00		
	Member Number- 26859		
1	Pre Delivery Inspection-	\$ 750.00	\$ 750.00
1	Freight to Florida (From Factory in Statesville)	\$ 400.00	\$ 400.00
	Dealer: 360 Energy Solutions		
	8510 NW 68 St		
	Miami, FL. 33166		
	Adrian.Lee Sang - 786-968-5849 <a href="mailto:adrian.lee@360energysolutions.net">adrian.lee@360energysolutions.net</a>		
	TOTALS - QUANTITY (1)	\$ 27,465.00	\$ 27,465.00

CUSTOMER SIGNATURE:	
* Availability subject to change. Please confirm lead time before ordering.	ORDER TOTAL \$ 27,465.00

IF TAX EXEMPT, FURNISH TAX EXEMPTION CERTIFICATE FOR IR FILES

**MEMO:** Please note that the leadtime is subject to change. Approximately 17-21 weeks

## GENERAL TERMS AND CONDITIONS OF SALE

### 1. GENERAL

Unless otherwise expressly notified by Doosan Infracore Portable Power (DIPP), in writing, all of CUSTOMER's order acknowledgments by DIPP and all sales made by DIPP to CUSTOMER shall be governed by these general terms and conditions of sale, which supersede and replace, in all respects, any general terms and conditions of purchase proposed by CUSTOMER. DIPP hereby gives notice of its objection to any additional or different terms included in any purchase order or other form submitted by CUSTOMER. Such additional or different terms shall not be included in this contract.

### 2. PRICES

(a) Unless otherwise specifically stated by DIPP, prices are in accordance with DIPP's price list in effect at the time of delivery, in U.S. dollars, and do not include the cost of special packing, insurance fees, taxes or duties, or any other charges which may be applicable to the sale, export or import of the goods.

(b) All prices are subject to alteration to conform with the published prices in effect at the date of delivery. Such prices are subject to increase by DIPP at any time upon thirty (30) days notice.

### 3. SHIPMENT

(a) Unless specified by CUSTOMER, DIPP shall select the method of transportation, including place or places of storage, if necessary, in accordance with the shipping conditions current at the time of or during shipment. Upon CUSTOMER's request and subject to availability, DIPP will arrange to obtain ocean freight space, marine insurance (which shall include standard warehouse to warehouse coverage), war risk insurance and forwarder's services. All such charges shall be payable by CUSTOMER.

(b) All shipments are made for CUSTOMER's account. If shipments are delayed because of delayed payments or insufficient or delayed shipping instructions from CUSTOMER, CUSTOMER shall be charged for storage costs beginning one month after DIPP's notice that the PRODUCTS ordered are ready for shipment and, if PRODUCTS are stored in DIPP's factory, such charge shall be not less than one-half percent (1/2%) per month of the amount involved.

(c) Partial shipments may be made and payments therefore shall become due in accordance with the terms hereof, as shipments are made and invoices rendered.

(d) Claims for shortages must be made by CUSTOMER immediately upon receipt of goods.

### 4. DELIVERY DATE

(a) All dispatch, shipping and delivery dates are estimates only and all such estimates are given on the understanding that CUSTOMER will promptly give all necessary instructions or information to DIPP, including satisfactory assurance to DIPP that CUSTOMER will be able to comply with the agreed terms of payment.

(b) DIPP shall not be liable for loss or damage due to delay in delivery or manufacture resulting from any cause beyond DIPP's reasonable control, including but not limited to, compliance with any government regulations or orders, acts of God, acts or omissions of CUSTOMER, fire, strikes, and factory shut-down. Any delay resulting from any such cause shall constitute cause for extended delivery dates and shall not entitle CUSTOMER to cancel its order.

### 5. TITLE AND RISK OF LOSS

Title and risk of loss or damage to the PRODUCTS shall pass to CUSTOMER upon tender of delivery F.O.B. DIPP's manufacturing facility, even if transportation or shipping costs are payable by DIPP, unless otherwise agreed upon by the parties, except that a security interest in the PRODUCTS shall remain in DIPP, regardless of mode of attachment to realty or other property, until full payment has been made therefore. CUSTOMER agrees upon request to do all things and acts necessary to perfect and maintain such security interest and shall protect DIPP's interest by adequately insuring the PRODUCTS against loss or damage from any cause wherein DIPP shall be named as a loss payee.

### 6. WARRANTY

DIPP warrants each new PRODUCT sold by it hereunder shall be free from defects in material and workmanship for the periods of time specified in the applicable warranties of DIPP for such PRODUCTS, which are incorporated herein by reference. This warranty shall be conditioned upon:

- (a) The return of the defective parts (transportation charges prepaid), if DIPP so desires; and
- (b) Recognition by DIPP of the warranty claims as justified.

The warranty does not cover normal wear and tear, damages due to overloading or other misuse or due to negligence in service or maintenance, climatic influence or acts of God, nor does the warranty apply to machines or accessories or attachments which have been repaired or altered without DIPP's consent.

DIPP's obligation under the warranty is expressly limited to the replacement or repair of such part or parts which have proven to be defective.

DIPP does not bear any transportation costs of parts or assemblies in connection with warranty service.

Parts and accessories used in the PRODUCTS, but not manufactured by DIPP, shall be subject to the warranty regulations of the manufacturer.

THE FOREGOING WARRANTY IS EXCLUSIVE. DIPP DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. DIPP SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, LOSS OR INTERRUPTION OF BUSINESS, LOST PROFITS AND LOSS OF USE, WHETHER BASED ON CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY, STATUTE OR OTHERWISE, EVEN IF DIPP HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE TOTAL LIABILITY OF DIPP WITH RESPECT TO THE PRODUCTS FURNISHED HEREUNDER SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCTS UPON WHICH SUCH LIABILITY IS BASED.

### 7. ASSIGNMENT

DIPP may assign any contract of sale, any individual right thereunder or the receivable resulting therefrom, to any third party without CUSTOMER's consent.

### 8. PAYMENT

(a) Except as otherwise agreed, standard terms of payment shall be cash or a confirmed irrevocable letter of credit (to be confirmed at a bank acceptable to DIPP), for the entire purchase price payable in full upon delivery of the PRODUCT. Any deviation from such

standard payment terms shall be subject to DIPP's credit approval with respect to the terms of any credit or deferred payment.

(b) In the event of CUSTOMER failing to pay the full amount due on the stated maturity date, CUSTOMER shall pay to DIPP late interest on the unpaid portion of the purchase price at the annual rate of 2% over the prime rate as established by the Federal Reserve in effect on the date of the unpaid invoice for CUSTOMERS located in the United States, Canada or Mexico and five percent (5%) over London Interbank Rate (LIBOR) in effect on the date of the unpaid invoice for all other CUSTOMERS.

(c) It is expressly agreed that in case of nonpayment or delayed payment, the amount due is automatically increased by ten percent (10%) as liquidated damages; in addition, all legal costs (including attorney's fees) incurred by DIPP as a result of CUSTOMER's nonpayment or delayed payment shall be borne by CUSTOMER.

(d) If, prior to payment, CUSTOMER's financial position is, in DIPP's reasonable judgment, deteriorating, DIPP shall, upon its request be granted adequate security.

(e) CUSTOMER alleging a counterclaim may not withhold payment or offset against payments owed to DIPP, unless CUSTOMER's counterclaim is undisputed by DIPP or adjudicated by a final court decision.

(f) If, in the event of an installment sale, CUSTOMER should fail to pay one of the installments within eight (8) days after the stated maturity date, the outstanding aggregate balance shall accelerate and fall due immediately.

(g) DIPP may, in its sole discretion, accept drafts, bills of exchange, promissory notes or other negotiable payment instruments in lieu of payment; however, they constitute a payment only when honored by CUSTOMER. Fees and taxes incurred in connection with such instruments or a protest thereof shall be borne by CUSTOMER. In case such instruments are protested or turn out not to be rediscountable, DIPP may return them to CUSTOMER and demand immediate cash payment.

(h) DIPP reserves the right to allocate payments made by CUSTOMER against any amounts due from DIPP's business relations with CUSTOMER, irrespective of the purpose of the payment stipulated by CUSTOMER.

### 9. EXPORT AND RESALE RESTRICTIONS

CUSTOMER will not sell or export the PRODUCTS, or knowingly sell the PRODUCTS for export, to persons or territories prohibited by the export laws of the United States of America.

### 10. NO WAIVER

No waiver, modification or addition to any of the above terms and conditions will be binding, unless in writing by DIPP, and no waiver of one breach will operate as a waiver of any subsequent breach.

### 11. CHOICE OF LAW AND JURISDICTION

These terms and conditions shall be construed, and the legal relations between CUSTOMER and DIPP shall be determined, in accordance with the substantive laws of the State of North Carolina for CUSTOMERS located in the United States, Canada or Mexico and in accordance with the substantive laws of Ireland for all other CUSTOMERS, except that any rules with respect to conflict of laws and the United Nations Convention on Contracts for the International Sale of Goods shall not apply. All disputes arising in connection with any order by any CUSTOMER located in the United States, Canada or Mexico hereunder shall be finally settled by arbitration conducted in Charlotte, North Carolina under the Rules of the American Arbitration Association by one or more arbitrators appointed in accordance with such rules. All disputes arising in connection with any order by all other CUSTOMERS hereunder shall be finally settled by arbitration conducted in Dublin, Ireland under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with such rules.

### 12. CANCELLATION

CUSTOMER may cancel its order, reduce quantities, revise specifications or extend schedules only by mutual agreement with DIPP as to reasonable and proper cancellation charges which shall take into account expenses already incurred and commitments made by DIPP, and CUSTOMER shall indemnify DIPP against any loss resulting therefrom.

### 13. PATENTS AND TRADEMARKS

DIPP shall defend, or in its sole discretion, effect settlement of any litigation or claim brought against CUSTOMER so far as based on a contention that any PRODUCT of DIPP's design sold to CUSTOMER by DIPP constitutes an infringement of any patent, or on a contention that the DIPP trademarks infringe upon the rights of third parties, provided that DIPP is notified promptly in writing of such litigation or claim and is given the authority, information and assistance (at DIPP's expense) reasonably requested by DIPP for the defense or settlement of same. In such event, DIPP shall pay any final and non-appealable judgment and any costs awarded against CUSTOMER in any such litigation to the extent such judgment or costs relate solely to such alleged patent or trademark infringement. The foregoing states the entire liability of DIPP for patent and trademark infringement by any PRODUCT. CUSTOMER agrees to hold DIPP harmless from all liability and litigation expense based upon alleged infringement of any patent or other intellectual property right resulting from equipment added to or changes made in PRODUCTS after they have left DIPP's plant or based on designs furnished by CUSTOMER.

### 14. SPECIFICATIONS AND IMPROVEMENTS

Unless expressly otherwise provided, DIPP's specifications concerning PRODUCTS are subject to change by DIPP in the course of manufacture without notice to CUSTOMER. It is DIPP's policy to constantly strive to improve its PRODUCTS. DIPP therefore reserves the right to make changes in design, and other changes, whenever DIPP believes its PRODUCTS will be improved thereby, but without any obligation to incorporate any such changes retroactively.

### 15. TOOLS

The title and right to and possession of any tools, dies, jigs, fixtures or patterns shall remain in DIPP, whether or not the cost, or any part thereof, is charged to CUSTOMER, unless DIPP otherwise specifically agreed in writing.



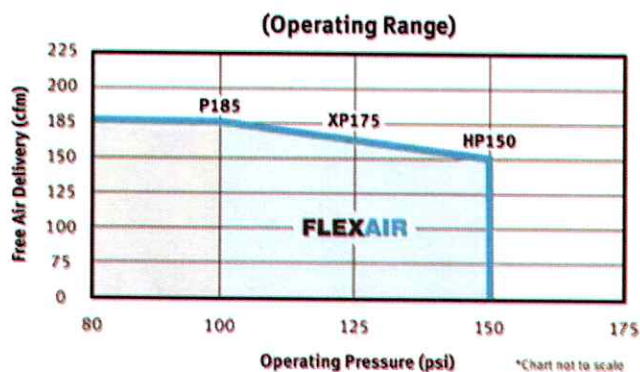


## Bid Specifications: PA185VWDO-T4F

<b>MANUFACTURER</b>	BOBCAT
<b>BRAND</b>	BOBCAT
<b>MODEL</b>	PA185VWDO-T4F
<b>ENGINE</b>	TIER 4 FINAL
<b>COMPRESSOR ROTARY SCREW/SINGLE-STAGE</b>	PA185V
Rated Free-Air Delivery – cfm (m3/min)	185 (5.2)
Rated Operating Pressure – psig (bar)	100 (6.9)
Pressure Range – psig (bar)	80 –150 (5.5 - 10.3)
FlexAir Flow Range <sup>(1)</sup>	184-150 (5.2-4.2)
Air Discharge Outlet NPT Size – in (mm)	0.75 (19)
Air Discharge Outlet Quantity	2
Separator Tank Volume (gal/l)	5.25 (19.87)
Oil Capacity (gal/l)	3.5 (13.24)
<b>ENGINE</b>	
Make/Model	Doosan D24
Emissions Tier Level	Tier 4 Final (T4F)
Number of Cylinders	4
Cylinder Bore (in/mm)	3.5 (90)
Cylinder Stroke (in/mm)	3.7 (94)
Displacement – cu in (L)	147 (2.4)
Rated Speed – rpm	2600
Idle Speed – rpm	1400
Bhp @ Rated Speed (kW)	49 (36.6)
Fuel / Cooling	Diesel / Water
Engine Oil Capacity (gal/l)	2.4 (9.1)
Radiator Coolant Capacity (gal/l)	2.6 (9.8)
Electrical – volts	12
Fuel Consumption 100% Rated Load (GPH/LPH)	2.8 (10.6)
Fuel Tank Capacity (gal/l)	34.5 (130.6)
Hours of Operation @ Full Rated Load	12.2
Altitude Capability	15,000 feet
Rated Limiting Ambient Temperature Range (LAT)	10°F – 120°F (-10°F w/ cold weather options)
FlexAir Range LAT	Varies between 110°F-120°F based on set pressure

<b>DIMENSIONS WITH RUNNING GEAR</b>	
Length – in (mm)	137.4 (3490)
Width – in (mm)	68.5 (1740)
Height – in (mm)	67.5 (1715)
Track Width – in (mm)	60 (1524)
Tire Size – in	15
Shipping Weight – w/o fuel – lb (kg)	2269 (1029)
Working Weight – w fuel – lb (kg)	2477 (1124)
<b>DIMENSIONS WITHOUT RUNNING GEAR</b>	
Length – in (mm)	88.5 (2248)
Width – in (mm)	49.3 (1252)
Height – in (mm)	56.3 (1431)
Shipping Weight – w/o fuel – lb (kg)	2059 (934)
Working Weight – w fuel – lb (kg)	2267 (1028)

(1) See FlexAir chart below for pressures at given flows



## **STANDARD FEATURES**

### **PACKAGE**

- Instrument and control panel with lockable door, front mounted.
- Shock mounted engine and compressor.
- Lockable side doors with pneumatic lift springs and no-rust aluminum hinges.
- Rear access panel for cleaning heat exchangers.
- Heavy-duty independent rubber torsion suspension axle with high ground clearance and 15" wheels.
- E-Z lube axle-bearing fittings.
- Detachable drawbar.
- Drawbar with safety chains and hooks.
- 3 position adjustable height hitch-pintle eye type; (3" inside diameter).
- Retractable heavy-duty screw jack with caster wheel.
- Removable resilient polyethylene fenders.
- Enclosure 14-gauge galvanized sheet metal with durable textured paint.
- Trailer running gear, 2 tail lights for running, brake, and turn signals; plus 4-wire cable, side marker lights, reflectors, and license plate light to comply with US DOT/Federal MVSS 49CFR571.
- Durable composite material end panels.
- Single point, external lifting bail.
- Large interior tool box (61" long x 10" wide x 14" deep).
- Engine mounted pusher fan (cool box).
- Co-flow exhaust pipe (raked exit exhaust pipe)
- The air service valves shall be (2) 3/4" (1/4 turn).

### **DOOSAN FLEXAIR**

Doosan FlexAir System allows users to have complete control over flow and pressure at their fingertips. It allows user to select a larger range of pressures from the control panel, without the need for tools to adjust pressure inside the package. (See *FlexAir flow and pressure range in the FlexAir chart above*)

### **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.

### **SAFETY**

- Starter protection prevents engagement while alternator is turning.
- Automatic safety shutdowns: high discharge air temperature, low engine oil pressure, high engine coolant temperature, and low engine speed.
- Manual and automatic blowdown valves.
- Minimum pressure device.
- ASME safety relief valve.
- Fan guard meets OSHA requirements.





## Bid Specifications: PA185VWDO-T4F

- Towing safety chains with safety hooks.
- Trailer and lighting comply with US DOT/Federal MVSS 49CFR571.
- Operating and maintenance manuals.
- Operating and safety decals.

### ENGINE

- Two-stage, heavy duty, dry type air cleaner with replaceable element located inside the enclosure.
- Oil drain access cover.
- Glow-plug preheat system for cold weather starting.
- Fuel/water separator with electronic detection and fault code.
- Electric starting system with 700 CCA battery.

### PERFORMANCE

- The rated free air delivery shall be 185 cfm
- The rated operating pressure shall be 100 psig
- The machine pressure range shall be 80-150 psig
- FlexAir flow range 184-150cfm (*see chart for pressures at given flows*)
- FlexAir pressure range 101-150 psig

### INSTRUMENT AND CONTROLS

- Large 5" LED lighted pressure gauge and CAN driven digital function interface display within the control panel that displays:
  - Fuel Level (if fuel sender option is present)
  - Engine Speed
  - Set Pressure (this is the screen used to adjust the machines set pressure)
  - Ambient Temperature
  - Aired Discharge Temperature
  - Engine Coolant Temperature
  - Engine Intake Manifold Temperature
  - Fuel Temperature
  - Engine Percent Load
  - Engine Target RPM
  - Fuel Rate
  - Fuel Filter Pressure
  - Engine Intake Manifold Pressure
  - Engine Oil Pressure
  - Separator Tank Pressure
  - Ambient Pressure (Barometric Pressure)
  - Battery Voltage
- LED lighted power button.
- Hour meter
- Rubberized button interface that controls engine crank with oil pressure by-pass, engine stop, service air, and digital screen enter key.
- Convenient start-up controls with unloaded warm up and push-button starting



## Bid Specifications: PA185VWDO-T4F

### 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" 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.
- 1000 CCA battery.
- 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 cap
- 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





## Bid Specifications: PA185VWDO-T4F

### **SPECIFICATIONS WITH COMMON OPTIONS (OPTIONS NOTED)**

#### **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 185 cfm, free air delivery, at 100 psi. 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 more than 49 SAE brake horsepower, at 2600 rpm.
- The engine shall have a glow-plug preheat system.
- The engine shall have a 12-volt electrical system and the battery shall have a minimum rating of [700]<sup>1</sup> 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, 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, and a replaceable fuel filter.
- The engine oil drain shall have an access cover.
- CAC Charge air cooler
- (DOC) Diesel oxidation catalyst engine exhaust after treatment

#### **COMPRESSOR AIREND:**

- The compressor airend shall be an 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 engine flywheel shall direct drive the coupling.
- A dedicated heavy duty, two stage, dry type air cleaner, with replaceable element, shall be used to filter intake air.

<sup>1</sup> 1000 CCA battery option available



## Bid Specifications: PA185VWDO-T4F

### COOLING SYSTEM:

- The engine and airend heat exchangers shall be finned tube type coolers arranged in a side-by-side configuration for easy cleaning. Access panel shall be on the rear enclosure for cleaning accessibility.
- The cooling air fan shall be engine mounted, 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 3 gallons(11.4L), and include an oil level sight gauge and over-fill protection.
- Second-stage air/oil separation shall utilize a remote, no-spill, spin-on oil coalescing separator element.

### TRAILER:

- The trailer shall be a two-wheel design using heavy duty independent rubber torsion suspension running gear with 15" tires, high ground clearance, [E-Z Lube axle bearing fittings]<sup>2</sup>, and a track width of no less than 60". The trailer shall be of welded steel construction and include a replaceable, bolt-on drawbar with [three position hitch]<sup>3</sup>, safety chains with hooks, [screw jack with caster wheel]<sup>4</sup>, resilient polyethylene bolt-on fenders, rear reflectors, towing lights, side marker lights, and lighted license plate bracket.<sup>5</sup>
- Trailer and lighting 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 with durable composite material end panels 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 shall be incorporated within the enclosure.
- Access for routine maintenance and tool storage shall be provided through large 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, discharge air pressure gauge, and in an LCD digital display shows the discharge air temp, engine oil pressure, engine coolant temp, optional low fuel level and shutdown, and all safety shutdowns.

<sup>2</sup> Optional electric brake or hydraulic brake axle configurations available

<sup>3</sup> Optional 8 position adjustable height hitch (19" to 33" in 2" increments) available

<sup>4</sup> Optional pneumatic wheel or pad foot screw jack available

<sup>5</sup> Optional rear bumper (with or without rear stabilizer screw jack) available



- 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.

**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 in accordance with ANSI Z535.6-2011, and operating and safety decals in accordance with ANSI Z535.4-2011, 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, low fuel level (if optional fuel level sensor is equipped), and low engine speed.

**WARRANTY<sup>6</sup>**

- 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 3000 operating hours, whichever occurs first. Engine, tires and battery carry the manufacturer's warranty. The airend shall be warranted for two years or 4000 hours, whichever occurs first.



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<sup>6</sup> Optional five year / 10,000 hour extended powertrain warranty available (see sales representative for details)