



J & L SUPPLY CO.
SALES - SERVICE - RENTALS
1444 Madison Ave. Huntington, WV 25704
Ph: (304) 525-8167 Fax: (304) 529-1653

December 9, 2019

QUOTATION NO.: 02-6463

WV Division of Highways
Equipment Division Rt 33
83 Brushy Rd Crossing, PO Box 610
Buckhannon, WV 26201
Attention: Crystal Hustead
Reference: Solicitation No CRFQ DOT2000000063

RECEIVED

2019 DEC 10 AM 11:04

WV PURCHASING
DIVISION

We are pleased to have the opportunity to offer the following equipment for your consideration:

QTY = 1 100 HORSEPOWER AIR COMPRESSOR

Model# ST-100 Gardner Denver, air cooled, Electra-Saver II, rotary screw air compressor package complete as follows:

Oil-Flooded, single stage, rotary screw air compressor with modulating capacity control.

Patented, intensive oil injection, energy saving, lube system.

100 HP; 208 volt; 3-PH.; 60HZ; 1780 RPM; EISA premium efficient (94.1%), O.D.P. electric motor with a 1.15 service factor and Nema C-flange.

Heavy duty canister type inlet air filter with replaceable 5 micron element.

Factory fill AEON-9000TH lubricant.

Eliminator Air/Oil Separator (2 PPM)

ASME coded oil reservoir with level gauge & 10 Micron full flow oil filter.

Thermal mixing valve.

Stainless steel, corrosion resistant control line tubing.

Carbon steel piping and fittings.

Air-cooled, heavy duty radiator type oil/air coolers.

Minimum discharge/pressure check valve.

Automatic blowdown muffler.

AirSmart Controller:

NEMA 4 standard enclosure

Automatic start/stop or load/unload operation with modulation.

Compressor sequencing with optional communication module.

Auto Blow-Down with Adjustable timed stop.

Full text liquid crystal display (LCD).

Selectable Restart.

Displays for Hourmeter (loaded and total), discharge air temperature, system/reservoir pressure.

Nema 4 electrical control enclosure including:

Mounted and wired 460 volt, wye delta motor starter.

24 Volt Direct Current Power Supply

Emergency stop button.

December 9, 2019
QUOTATION NO: 02-6463
WV Division of Highways
Page 2 of 3

Compressor Performance:
434 ACFM @ 150PSIG

Compressor Price includes the following:

- Quiet sound enclosure {75 dBa}
- Moisture Separator - For removal of liquid water at the discharge of the air compressor {shipped loose}
- AEON9000TH - Hi Temp Synthetic Lubricant {12,000 hr} **

**Lubricant will achieve 12,000 under normal operating conditions

-ICONN remote monitoring device: This is a new Gardner Denver feature that allows remote monitoring of your compressor condition. With the ICONN, you and your service agency can receive notifications via email or text alerting you to service due warnings, minor or critical machine faults and other types of machine status updates. There are no monitoring fees and this does not work through the customer's network. The service is provided by Gardner Denver's cellular network.

QTY = 1 Non-Cycling Refrigerated Air Dryer

Model #GSRN500 Gardner Denver, air cooled, High efficiency, non-cycling refrigerated air dryer. 208 volt; 3-phase 60HZ refrigeration compressor. 2"NPT inlet and outlet connections.

* American Made

* Stainless steel thermostatic expansion valve: This modulates refrigerant flow in fluctuating ambient temperatures and compressed air loads preventing premature refrigeration compressor failure.

* Stainless steel heat exchanger

*Full suction and discharge refrigeration service valves for easy maintenance.

DRYER PERFORMANCE:

500 CFM flow capacity @ 100 PSIG {Maximum 220PSIG} inlet air pressure, 100 Deg. F inlet compressed air temperature, 100 Deg. F ambient temperature to a +35 Deg. F pressure dewpoint.

Dryer price includes the following:

-Model GIL500H Hi Performance Coalescing Filter (.01PPM) - 99.999% Efficiency with differential pressure gauge and zero air loss automatic drain.

QTY = 1 600 Gallon Vertical Air Receiver

ASME 600 Gallon - Carbon Steel - Vertical air receiver with base ring - 200 WP-PSI.

Price includes ASME safety relief valve and automatic drain.

TOTAL PACKAGE PRICE \$ 58,177.00

December 9, 2019
QUOTATION NO: 02-6463
WV Division of Highways
Page 3 of 3

The following are exceptions taken to the bid spec:

- 3.1.1.6 Compressor air filter is 5 micron instead of 4
- 3.1.1.7 Maximum operating temperature is 104 Deg. F
- 3.1.1.9 dBa rating is 75 instead of 73
- 3.1.1.14 Dimensions are slightly large than requested {see attached engineering data sheet}
- 3.1.2.4 Dryer dimensions are 49"H X 34"W X 46"D

Note:

Pricing includes field startup services and training. Startup service shall be scheduled at least one week in advance and is to be performed during normal working hours, Monday thru Friday. One eight hour day will be allotted for this startup service. All equipment must be properly piped to air system and electrical wiring must be completed prior to startup.

J&L currently employs two certified service technicians, who are residents of Buckhannon, WV. Response time will be minimal for future service requests.

DELIVERY: 8-10 Weeks, ARO
FOB: Delivered - Price includes freight charges
TERMS: Net 30 days

We are enclosing literature to familiarize you with the quoted equipment. If you have any questions or need any additional information, please feel free to call me at 1-800-676-0815.

Sincerely,
J & L SUPPLY CO.

Deron Lambert



Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Request for Quotation
19 — Highways

Proc Folder: 641614

Doc Description: COMPLETE SHOP AIR COMPRESSOR W/DRYER (7020E017)

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2019-11-04	2019-12-10 13:30:00	CRFQ 0803 DOT2000000063	1

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

J&L Supply Company, Inc.

1444 Madison Ave.

Huntington, WV 25704

PH: 304-525-8167

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead

(304) 558-2402

crystal.g.hustead@wv.gov

Sue Ramsey

Digitally signed by Sue Ramsey
DN: cn=Sue Ramsey, o=J&L Supply Co., Inc., ou,
email=sramsey@jlsupplycompany.com, c=US
Date: 2019.12.09 13:38:46 -05'00'

Signature X

FEIN # 55-0646252

DATE 12-9-19

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO ESTABLISH A CONTRACT FOR THE ONE-TIME PURCHASE OF A COMPLETE SHOP AIR COMPRESSOR WITH DRYER PER THE ATTACHED DOCUMENTS.

QUESTIONS REGARDING THE SOLICITATION MUST BE SUBMITTED IN WRITING TO CRYSTAL.G.HUSTEAD@WV.GOV PRIOR TO THE QUESTION PERIOD DEADLINE CONTAINED IN THE INSTRUCTIONS TO VENDORS SUBMITTING BIDS

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610 BUCKHANNON WV26201 US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD CROSSING BUCKHANNON WV 26201 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Complete Unit Air Compressor w/dryer	1.00000	EA	58,177.00	\$58,177.00

Comm Code	Manufacturer	Specification	Model #
40151601	Gardner Denver	See attached documentaton	

Extended Description :

Complete Unit: Fixed speed air compressor, 660 gal vertical air storage tank, air dryer

SCHEDULE OF EVENTS

Line	Event	Event Date
1	MANDATORY PRE-BID MEETING	2019-11-20
2	VENDOR QUESTION DEADLINE	2019-11-25

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Sue Ramsey - Owner
(Name, Title)

(Printed Name and Title)
1444 Madison Ave. Huntington, WV 25704
(Address)
PH: 304-525-8167 Fax: 304-529-1653
(Phone Number) / (Fax Number)
sramsey@jlsupplycompany.com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

J&L Supply Company, Inc.
(Company)

Sue Ramsey
(Authorized Signature) (Representative Name, Title)
Sue Ramsey - Owner
(Printed Name and Title of Authorized Representative)
12-9-19
(Date)
PH: 304-525-8167 Fax: 304-529-1653
(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ DOT2000000063

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

J&L Supply Company, Inc.

Company

Sue Ramsey

Digitally signed by Sue Ramsey
DN: cn=Sue Ramsey, o=J&L Supply Co., Inc., ou,
email=sramsey@jlsupplycompany.com, c=US
Date: 2019.12.09 13:46:19 -05'00'


Authorized Signature

12-9-19

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

VENDOR: J&L Supply Company, Inc.**CRFQ DOT20000000063**

Item No.	Description:	Model & Part Number Being Bid	Unit Quantity	Unit Price	Item Total Cost
1	418CFM fixed speed air compressor, 660 Gallon vertical air storage tank, 500 SCFM Air Dryer, 500 SCFM Pre-filter	ST-100G2 Compressor GSRN500 Dryer 660 Gal Vert. Tank	1	\$ 58,177.00	\$ 58,177.00
Total Bid Amount 					\$ 58,177.00
Contract will be awarded to the lowest responsible bidder					

Vendor Information	
Company Name:	J&L Supply Company, Inc.
Contract Manager:	Sue Ramsey
Address:	1444 Madison Ave. Huntington, WV 25704
Phone:	304-525-8167
Fax:	304-529-1653
E-mail:	sramsey@jlsupplycompany.com
Signature:	Sue Ramsey <small>Digitally signed by Sue Ramsey DN: cn=Sue Ramsey, o=J&L Supply Co., Inc., ou, email=sramsey@jlsupplycompany.com, c=US Date: 2019.12.09 15:53:21 -0500</small>



STG2-100 ENGINEERING DATA SHEET

Engineering Data Sheet: STG2-100
Configurator Number: ST75-100 G2A
Date: 1/17/2018
Supersedes:

Fixed Speed – 60 Hz

PRODUCT DATA			Units	STG2-100			
Performance (1)							
Working Pressure	PACKAGE PRESSURE (configurator pick)	psig bar g	100 6.9	125 8.6	150 10.3	175 12.1	200 13.8
	Airend Model at configurator pressure / Gear Ratio		GD8 / 1.048	GD8 / 0.969	GD8 / 0.86	GD6 / 1.614	GD6 / 1.614
100 psig 6.9 bar g	Capacity (2)	acfm (m³/min)	541 (15.32)	500 (14.16)	442 (12.52)	349 (9.88)	349 (9.88)
	Package Input Power - AC / WC (3,4)	kW	91.1 / 89.1	83.9 / 81.9	74.3 / 72.3	63.6 / 61.6	63.6 / 61.6
	Specific Power - AC / WC	kW/100 cfm	16.8 / 16.5	16.8 / 16.4	16.8 / 16.4	18.2 / 17.7	18.2 / 17.7
	Main Drive Motor Power	bhp	113.8	104.5	92.3	78.7	78.7
110 psig 7.6 bar g	Capacity (2)	acfm (m³/min)		498 (14.10)	441 (12.49)	349 (9.88)	349 (9.88)
	Package Input Power - AC / WC (3,4)	kW		87.4 / 85.4	77.5 / 75.5	66.1 / 64.1	66.1 / 64.1
	Specific Power - AC / WC	kW/100 cfm		17.6 / 17.1	17.6 / 17.1	18.9 / 18.4	18.9 / 18.4
	Main Drive Motor Power	bhp		109.0	96.4	81.9	81.9
125 psig 8.6 bar g	Capacity (2)	acfm (m³/min)		496 (14.05)	438 (12.40)	348 (9.85)	348 (9.85)
	Package Input Power - AC / WC (3,4)	kW		92.8 / 90.8	82.4 / 80.4	69.9 / 67.9	69.9 / 67.9
	Specific Power - AC / WC	kW/100 cfm		18.7 / 18.3	18.8 / 18.4	20.1 / 19.5	20.1 / 19.5
	Main Drive Motor Power	bhp		116.0	102.6	86.9	86.9
150 psig 10.3 bar g	Capacity (2)	acfm (m³/min)			434 (12.29)	347 (9.83)	347 (9.83)
	Package Input Power - AC / WC (3,4)	kW			90.7 / 88.7	76.6 / 74.6	76.6 / 74.6
	Specific Power - AC / WC	kW/100 cfm			20.9 / 20.4	22.1 / 21.5	22.1 / 21.5
	Main Drive Motor Power	bhp			113.2	95.4	95.4
175 psig 12.1 bar g	Capacity (2)	acfm (m³/min)				346 (9.80)	346 (9.80)
	Package Input Power - AC / WC (3,4)	kW				83.3 / 81.3	83.3 / 81.3
	Specific Power - AC / WC	kW/100 cfm				24.1 / 23.5	24.1 / 23.5
	Main Drive Motor Power	bhp				104.0	104.0
200 psig 13.8 bar g	Capacity (2)	acfm (m³/min)					345 (9.77)
	Package Input Power - AC / WC (3,4)	kW					89.5 / 87.5
	Specific Power - AC / WC	kW/100 cfm					25.9 / 25.4
	Main Drive Motor Power	bhp					111.9
Unloaded Package Input Power - AC / WC		kW	25.9 / 23.9	23.7 / 21.7	22.1 / 20.1	16.8 / 14.8	19.7 / 17.7
Minimum Operating Pressure		psig (bar g)	85 (5.9)				
Airend Data							
Drive Type	n/a	Gear	Gear	Gear	Gear	Gear	
Airend Speed (male rotor)	rpm	1876	1735	1539	2889	2889	
Male / Female Rotor Diameter	mm	230.0 / 184.0	230.0 / 184.0	230.0 / 184.0	175.0 / 138.0	175.0 / 138.0	
Male / Female Rotor Tip Speed	m/s	22.6 / 15.1	20.9 / 13.9	18.5 / 12.4	26.5 / 17.4	26.5 / 17.4	
General Package Data							
System Capacity - oil	gal (l)	10.0					
Oil flow @ configured pressure	gpm (l/min)	29 (109.78)	32 (121.13)	35 (132.49)	38 (143.85)	41 (155.20)	
Air/Oil Reservoir Capacity - oil	gal (l)	7.6 (28.8)					
Air/Oil Reservoir Volume - air	ft³ (l)	1.8 (51)					
Oil Cooler Heat Rejection	btu/min	4006	4168	4144	3876	4216	
Aftercooler Heat Rejection	btu/min	818	750	656	523	521	
Radiated Heat Rejection	btu/min	483	492	480	437	470	
Nominal Temperature Rise @ Configured Pressure	°F (°C)	36 (20)	33 (18)	30 (17)	25 (14)	25 (14)	
Min / Max Operating Temperature	°F (°C)	32 / 104 (0 / 40)					
Noise Level Data (5)							
Unenclosed - AC / WC	dB(A)	80 / 80					
Quiet Enclosed - AC / WC	dB(A)	75 / 71					

NOTES:

- (1) Capacity and Power measured in accordance with ISO 1217 Annex C.
(2) acfm is actual cubic feet per minute at inlet conditions
(3) Package Input Power includes main motor, fan motor and control input power

- (4) Power noted with TEFC motor
(5) Sound level measurement in accordance with ISO 2151.

Fixed Speed – 60 Hz

PRODUCT DATA		Units	STG2-100			
Main Drive Motor Data						
Drive Motor Nominal Power	hp (kW)	100 (75)				
Drive Motor Speed	rpm	1790				
Drive Motor Service Factor	n/a	1.25				
Drive Motor Minimum Nameplate Efficiency - ODP / TEFC	%	95.4 / 95.4				
Drive Motor Min. Insulation Class	n/a	F				
Drive Motor Nominal Current (Per NEC Code) - 230V (6)	Amps	231.7				
Drive Motor Nominal Current (Per NEC Code) - 460V (6)	Amps	115.8				
Drive Motor Nominal Current (Per NEC Code) - 575V (6)	Amps	92.68				
Drive Motor Nominal Current (Per NEC Code) - 380V (6)	Amps	140.3				
Air Cooled Package Data						
Cooling Fan Motor Speed	rpm	1180				
Cooling Fan Motor Power	hp (kW)	3 (2.2)				
Fan Motor Nameplate Efficiency	%	82.5				
Total Ventilation Flow Rate	cfm (m³/min)	7141 (202)				
Max Total Added Static Pressure	in H₂O (Pa)	0.25 (62.3)				
Aftercooler Design Approach Temperature - above amb	°F (°C)	15 (8.3)				
Water Cooled Package Data						
Water Service Temperature	°F (°C)	60 (15.6)	70 (21.1)	80 (26.7)	90 (32.2)	Max Flow
Water Flow Through Oil, Air Coolers (7)	gpm (l/min)	14.1 (53.37)	16.2 (61.32)	19.1 (72.30)	23.2 (87.82)	26 (98.42)
Water Flow Through Air Cooler (8)	gpm (l/min)	2.9 (10.98)	3.3 (12.49)	3.9 (14.76)	4.7 (17.79)	26 (98.42)
Total Package Water Pressure Drop (7)	psi (mbar)	6.3 (434.5)	8.3 (572.4)	11.5 (793.1)	17 (1172.4)	
Aftercooler Design Approach Temperature	°F (°C)	15 (8.3)				
Enclosure Vent Fan(s) Nominal Power	hp (kW)	1/4 (0.19)				
Min / Max Coolant Temperature @ Inlet	°F (°C)	35 / 90 (1.7 / 32.2)				
Total Ventilation Flow Rate	cfm (m³/min)	1621 (46)				
Min / Max Water Pressure	psig (bar g)	40 / 150 (2.8 / 10.3)				
Connections						
Discharge Connection Size	" npt	2				
Cooling Water Connection Size	" npt	1				
Moisture Drain Connection Size	" npt	1/2				
Oil Drain Connection Size	" npt	1/2				
Dimensions and Weights						
Package type	Units	Air Cld	Wtr Cld	Air Cld Qt Encl	Wtr Cld QT Encl	
Length	in (mm)	90 (2286)	90 (2286)	90 (2286)	90 (2286)	
Width	in (mm)	61 (1549)	60 (1524)	61 (1549)	60 (1524)	
Height	in (mm)	59 (1499)	57 (1448)	60 (1524)	60 (1524)	
Weight (9)	lbs (kg)	4660 (2114)	3915 (1776)	5206 (2361)	4461 (2023)	
Outline Drawing - standard package	n/a	300EBF804	301EBF804	302EBF804	303EBFD804	

NOTES:

- (6) Main motor current per NEC table 430.250 to be used for wire sizing
(7) Water flow for oil, air coolers piped in series configuration. 100% Load at 100psig
(8) Water flow for air cooler piped in parallel configuration with oil cooler. 100% Load at 100psig.
(9) Weights based on GDB Base air end and 100hp/TEFC Hebel motor