

Patricia A. Peshka
Purchasing Agent



Scott Avedisian
Mayor

City of Warwick
Purchasing Division
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Warwick, Rhode Island 02886
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The following notice is to appear on the City of Warwick's website Wednesday, February 28, 2018. The website address is <http://www.warwickri.gov/bids>.

**CITY OF WARWICK
BIDS REQUESTED FOR**

Bid2018-292 Stationary Breathing Air Compressor 6000 PSI

Specifications are available in the Purchasing Division, Warwick City Hall, Monday through Friday, 8:30 AM until 4:30 PM on or after Wednesday, February 28, 2018.

Sealed bids will be received by the Purchasing Division, Warwick City Hall, 3275 Post Road, Warwick, Rhode Island 02886 up until 11:00 AM, Wednesday, March 14, 2018. The bids will be opened publicly commencing at 11:00 AM on the same day in the Council Chambers, 2nd Floor, Warwick City Hall.

Awards shall be made on the basis of the lowest evaluated or responsive bid price. Please note that no bids can be accepted via email or fax.

Individuals requesting interpreter services for the hearing impaired must notify the Purchasing Division at 401-738-2013 at least 48 hours in advance of the bid opening date.

Original Signature on File

Patricia A. Peshka
Purchasing Agent

PLEASE COMPLETE THIS PAGE & SUBMIT WITH YOUR BID

Acknowledgement of Addendum (if applicable)

Addendum Number	Signature of Bidder
_____	_____
_____	_____

COMPANY NAME: _____

COMPANY ADDRESS: _____

COMPANY ADDRESS: _____

BIDDER'S SIGNATURE: _____

BIDDER'S NAME (PRINT): _____

TITLE: _____ TEL. NO.: _____

EMAIL ADDRESS: _____*

*Please include your email address. Future bids will be emailed, unless otherwise noted.

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II. AWARD AND CONTRACT:

The CITY OF WARWICK, acting as duly authorized through its Purchasing Agent/Finance Director/Mayor (delete if inapplicable), accepts the above bid and hereby enters into a contract with the above party to pay the bid price upon completion of the project or receipt of the goods unless another payment schedule is contained in the specifications. All terms of the specifications, both substantive and procedural, are made terms of this contract.

DATE: _____

Bid2018-292

Purchasing Agent

PLEASE COMPLETE THIS PAGE & SUBMIT WITH YOUR BID

CERTIFICATION & WARRANT FORM*

**This form must be completed and submitted with sealed bid.
Failure to do so will result in automatic rejection.**

Any and all bids shall contain a certification and warrant that they comply with all relevant and pertinent statues, laws, ordinances and regulations, in particular, but not limited to Chapter 16- Conflicts of Interest, of the Code of Ordinances of the City of Warwick. Any proven violation of this warranty and representation by a bidder at the time of the bid or during the course of the contract, included, but not limited to negligent acts, either directly or indirectly through agents and/or sub-contractors, shall render the bidder's contract terminated and the bidder shall be required to reimburse the City for any and all costs incurred by the City, including reasonable attorney fees, to prosecute and/or enforce this provision.

Signature

Date

Company Name

Address

Address

***This form cannot be altered in any way**

**CITY OF WARWICK
NOTICE TO BIDDERS**

Bid2018-292 Stationary Breathing Air Compressor 6000 PSI

If you received this document from our homepage or from a source other than the City of Warwick Purchasing Division, please check with our office prior to submitting your bid to ensure that you have a complete package. The Purchasing Division cannot be responsible to provide addenda if we do not have you on record as a plan holder.

Bids received prior to the time of the opening will be securely kept, unopened. No responsibility will be attached to an officer or person for the premature opening of a bid not properly addressed and identified. No bids shall be accepted via facsimile or email.

The opening of bids shall be in the order established by the posted agenda and the agenda shall continue uninterrupted until completion.

Once an item has been reached and any bids on that item has been opened, no other bids on that item will be accepted and any such bid shall be deemed late.

The contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap for any position for which the employee or applicant is qualified and that in the event of non-compliance the City may declare the contractor in breach and take any necessary legal recourse including termination or cancellation of the contract.

A bidder filing a bid thereby certifies that no officer, agent, or employee of the City has a pecuniary interest in the bid or has participated in contract negotiations on the part of the City, that the bid is made in good faith without fraud, collusion, or connection of any kind with any other bidder for the same call for bids, and that the bidder is competing solely in his own behalf without connection with, or obligation to, any undisclosed person or firm.

All bids should be submitted with one (1) original and one (1) copy in a sealed envelope, which should read: *YOUR COMPANY NAME* plainly marked on the exterior of the envelope as well as "Bid2018-292 Stationary Breathing Air Compressor 6000 PSI."

Should you have any questions, please contact Assistant Chief Fontenault, Warwick Fire Department, at 401-468-4044.

All bids should be written in ink or typed. If there is a correction with whiteout, the bidder must initial the change.

Negligence on the part of the bidder in preparing the bid confers no rights for the withdrawal of the bid after it is open.

Any deviation from the specifications must be noted in writing and attached as part of the bid proposal. The bidder shall indicate the item or part with the deviation and indicate how the bid will deviate from specifications.

The IRS Form W-9 available on www.warwickri.gov should be completed and submitted with the bid if the bidder falls under IRS requirements to file this form.

For a bid to be awarded to a corporation, limited liability company or other legal entity, prior to commencing work under the awarded bid, that corporation, company or legal entity may be required to provide to the Purchasing Agent a **Certificate of Good Standing** dated no more than thirty (30) days prior to the date upon which the bid approval was made.

If required, the successful bidder will provide said **Certificate of Good Standing** within ten (10) calendar days after notification or the City reserves the right to rescind said award.

Prices to be held firm one year from date of award. Term contracts may be extended for one additional term upon mutual agreement unless otherwise stated.

The contractor must carry sufficient liability insurance and agree to indemnify the city against all claims of any nature, which might arise as a result of his operations or conduct of work.

The City is exempt from the payment of the Rhode Island Sales Tax under the 1956 General Laws of the State of Rhode Island, 44-18-30, Paragraph I, as amended.

The Purchasing Agent reserves the right to reject any and all bids, to waive any minor deviations or informalities in the bids received, and to accept the bid deemed most favorable to the interest of the City.

The successful bidder must comply with all Rhode Island Laws applicable the public works projects, including, but not limited to provisions of Chapter 13 of Title 37 of the Rhode Island General Laws, pertaining to prevailing wage rates, and all other applicable local, state and federal laws.

The City reserves the right to terminate the contract or any part of the contract in the best interests of the City, upon 30-day notice to the contractor. The City shall incur no liability for materials or services not yet ordered if it terminates in the best interests of the City. If the City terminates in the interests of the City after an order for materials or services have been placed, the contractor shall be entitled to compensation upon submission of invoices and proper proof of claim, in that proportion which its services and products were satisfactorily rendered or provided, as well as expenses necessarily incurred in the performance of work up to time of termination.

No extra charges for delivery, handling or other services will be honored. All claims for damage in transit shall be the responsibility of the successful bidder. Deliveries must be made during normal working hours unless otherwise agreed upon.

All costs directly or indirectly related to the preparation of a response to this solicitation, or any presentation or communication to supplement and/or clarify any response to this solicitation which may be required or requested by the City of Warwick shall be the sole responsibility of and shall be borne by the respondent.

If the respondent is awarded a contract in accordance with this solicitation and the respondents bid or response and if the respondent fails or refuses to satisfy fully all of the respondents obligations thereunder, the City of Warwick shall be entitled to recover from the respondent any losses, damages or costs incurred by the City as a result of such failure or refusal.

The City reserves the right to award in part or full and to increase or decrease quantities in the best interest of the City.

Any quantity reference in the bid specifications are estimates only, and do not represent a commitment on the part of the City of Warwick to any level of billing activity. It is understood and agreed that the agreement shall cover the actual quantities ordered during the contract period.

The City reserves the right to rescind award for non-compliance to bid specifications.

The successful bidder must adhere to all City, State and Federal Laws, where applicable.

10 HP 6000 PSI Stationary Breathing Air Compressor Station

BID SPECIFICATIONS

The system shall be designed to tie into the existing “**MAKO BAM 07H**” air storage/charge station module. This document describes the minimum requirements for a complete breathing air compressor. The system shall be modular and capable of being supplied as **one (1) vertical module as specified herein**. The ability to separate the compressor module from the charge station is for operator safety.

WARRANTY

The equipment supplied shall be guaranteed to be new, of current design, and free of all defects in material and workmanship for a period of **three (3) years**, based on prescribed service and maintenance.

AIR COMPRESSOR

- Maximum Pressure continuous duty is 6000 PSI/413bar.
- Compressor shall be a four stage.
- Compressor shall be lubricated by differential pressure / controlled splash.
- Compressor shall be air-cooled.
- Enclosed all metal fan-blade guard.
- Flywheel shall be precision-balanced and fan-bladed for excellent cooling capacity.
- Compressor shall be constructed in a W design for low vibration and balanced rod load.
- Ductile iron connecting rods for high strength.
- Compressor crankcase shall be constructed from top grade Aluminum Alloy eliminating excessive weight.
- Two crankcase covers for quick and easy main bearing replacement and access to crankshaft and connecting rods.
- Crankshaft shall be ductile iron and counterbalanced with large diameter throw for low bearing loads, high strength and long life.
- Compressor shall be constructed with cast iron cylinders.
- Cylinders shall have finned aluminum heads for superior heat dissipation.
- Compressor shall have piston rings on all pistons.
- Valve housings shall be nickel-plated for corrosion resistance.
- Compressor shall have stage pressure gauges, intercoolers, relief valves, and condensate traps after each stage of compression.
- Compressor and electric motor shall be mounted with an automatic “V” belt adjusting system.
- Compressor assembly shall be enclosed frame with remote air intake. Enclosed frame totally encloses the compressor in a box with sides that are covered with sound foam to help lower the noise. Remote air intake comes with in-line filter housing, proper length hose and adapters to connect to wall piping system.
- Stainless steel, disc-in plate valves for long wear, excellent heat resistance and dissipation.

10 HP PURIFICATION SYSTEM

1. The purification system shall consist of a mechanical oil/moisture separator and two chemical purification chambers (total of two). The chambers shall be designed to conform to the ASME code for Unfired Pressure Vessels.
2. Purification chambers shall be constructed in aluminum alloy 6082T6 as its anti-corrosive properties exceed all other chamber materials.
3. Purification system shall process a minimum of 37,000 SCF of air per cartridge set. Purified air shall be measured by the actual weight of Molecular Sieve. **Electronic dewpoint (DP) detection shall not be used as a means to claim extended chemical cartridge life.**
4. Each purification chamber shall have "Safety Burst Discs" integrated into its base, for maximum safety.
5. CO and dew point sensors shall not be installed in the purification chamber.

Sensors shall be installed downstream of all chambers so the sampled air is representative of that delivered to the B.A. cylinders.

The purification system shall have the following minimum ratings:

1. 6000 PSI working pressure.
2. 4 to 1 safety factor.
3. 5 to 80 SCF minimum flow capacity.
4. 37,000 standard cubic feet of air purified per chemical cartridge set.

AIR COMPRESSOR

10 HP

1. Charge rate (14cfm).
2. RPM 1680.
3. Electric motor shall be **10 HP**, three phase 208 volt, 60Hz.

COMPUTERIZED CONTROL AND MONITORING SYSTEM

All significant functions of the system shall be monitored and controlled by a microprocessor Scott X4 Controller. The operational status will be presented on an annunciator panel. In the event of an out-of-tolerance condition, the "controller" will "alarm" and stop the compressor. The "status" and/or "cause" will be indicated on the annunciator panel. All accumulated times on all significant time sensitive functions will be recorded and displayed on command.

The system shall have the following:

- CO & Dew Point Monitor.
- FUNCTIONS / PARAMETERS MONITORED AND CONTROLLED.

1. COMPRESSOR ASSEMBLY

- a) Compressor start/stop (stop - advise normal and alarm abnormal condition).
- b) Discharge air pressure (stop - advise normal condition).
- c) Auto condensate drain control (cycle drain function, advise normal condition).
- d) Auto Drain/Cool Down Cycle ** (on each shutdown, pressure switch or Stop button; advise normal condition).
- e) Oil level and/or pressure (stop, alarm and advise abnormal condition).
- f) Give automatic service status for Air Sample, CO Monitor calibration and Purifier elements.
- g) Multi-level password feature for security.
- h) Downloadable history for diagnostic and performance evaluation.

**COOL DOWN SYSTEM - The system shall have the capability of dumping all mechanical moisture traps every fifteen (15) minutes during compressor operation. Prior to shutdown, manually or automatically, it shall open and unload all moisture drain valves. It shall run for two to five minutes in order to cool and dry completely purging the system of all accumulated water and oil vapor.

2. PURIFICATION SYSTEM

- a) Dewpoint monitoring/control (Constant monitoring) (stop, alarm and advise abnormal condition).
- b) Carbon monoxide monitoring/control (Constant monitoring) (stop, alarm and advise abnormal condition).
- c) Auto condensate drain control (advise status normal condition).
- d) Purge" control, dumps the air exiting the purifier in order to clear up temporary alarm conditions (advise status normal condition).

3. HOUSEKEEPING

- a) Total time on compressor assembly (advise time on command).
- b) Time since compressor service (re-settable, advise time on command).
- c) Time since purification cartridge change (re-settable, advise time on command).
- d) Time on DP monitor cell (re-settable, advise time on command).
- e) Time on CO monitor cell (re-settable, advise time on command).
- f) Automatic calibration notification of CO monitors (advise procedure on command).

4. ALARMS (AUDIO/VISUAL)

- a) High discharge air temperature - with automatic compressor "STOP", the upper limit is factory set.
- b) High discharge air carbon monoxide - with automatic compressor "STOP".
- c) High discharge air moisture (dewpoint) - with a "WARN" to advise a pending filter (purification cartridge) change; an "ALARM" with automatic compressor "STOP".
- d) Low oil level and/or pressure - with automatic compressor "STOP".

5. SPECIAL FEATURES AND CONTROLS

- a) Prolonged run time control. Will stop the compressor assembly when pre-determined continuous run time has been exceeded.
- b) An audio/visual alarm and word advise is presented on the abnormal condition. "RESET" is required.
- c) Time delay for false alarm recognition. Pre programmed to prevent false alarms from stopping the compressor or initial system setup and on purifier cartridge change.
- d) Demand Control *(In Automatic mode)
"Emergency Stop" control mounted on the main control panel.
- e) Back light control switch on panel.

6. DISPLAY

- a) Final Pressure "Storage Full" (up to 5000 PSI).
- b) Discharge Air Temp. Up to 800 0F.
- c) Oil Level/Pressure "GO-NO-GO" alarm.
- d) Dew Point Level Up to 30 0F, down to minus 100 0F.
- e) Carbon Monoxide Level 0 to 200 PPM.
- f) Timing Functions Hours and Minutes, calendar date.

**** DEMAND CONTROL**

The compressor will automatically respond to air "demand", keeping the air receivers at full pressure.

Calibration Kit for Carbon Monoxide Monitor

Includes a calibration regulator and connection hose assembly, 1ea 20PPM calibration gas cylinder and 1ea ZeroPPM calibration gas cylinder with Material Safety Data Sheets for both. Complete instructions for proper calibration and a protective hard plastic carrying case that houses all kit components. The calibration gas cylinders volume shall be enough for a minimum of twelve calibrations when used according to the instructions provided.

DELIVERY, INSTALLATION AND TRAINING

- The complete system shall be assembled and tested as a complete system at the factory prior to shipment. A test certificate shall be part of the Operation manual (1 set) that shall be shipped with the system.
- The system shall be delivered FCA seller's premise.
- The system shall be set up, installed, and checked out at the user's destination by the distributor.
- The user shall receive training by the distributor on the operation and maintenance of the system as required.

PLEASE COMPLETE THIS PAGE & SUBMIT WITH YOUR BID

CITY OF WARWICK

BID AND CONTRACT FORM

TITLE OF SPECIFICATION: Bid2018-292 Stationary Breathing
Air Compressor 6000 PSI

I. BID:

WHEREAS, the CITY OF WARWICK has duly asked for bids for performance of services and/or supply of goods in accordance with the above-indicated specifications.

The person or entity below does irrevocably offer to perform the services and/or furnish the goods in accordance with the specifications, which are hereby incorporated by reference in exchange for the bid price below;

This offer shall remain open and irrevocable until the CITY OF WARWICK has accepted this bid or another bid on the specifications or abandoned the project.

The bidder agrees that acceptance below by the CITY OF WARWICK shall transform the bid into a contract. This bid and contract shall be secured by Bonds, if required by the specifications.

Item	Description	Unit Cost
1	Make	
2	Model	
3	Warranty	
4	Cost Each	\$
	Delivery in Calendar Days	