



CITY OF HOUSTON

INVITATION TO BID

Issued: *April 26, 2013*

Bid Opening:

Sealed bids, in duplicate, will be received by the City Secretary of the City of Houston, in the City Hall Annex, Public Level, 900 Bagby, Houston, Texas 77002 until **10:30 A.M.** Thursday, **May 23, 2013**, and all bids will be opened and publicly read in the City Council Chamber, City Hall Annex, Public Level, 900 Bagby at 11:00 A.M. on that date for the purchase of:

MECHANICAL REMEDIATION SERVICES FOR THE GENERAL SERVICES DEPARTMENT

Bid No. S50-C24581

NIGP Code: 120-32/953-22/914-50

Buyer:

Questions regarding this solicitation should be addressed to Arturo Lopez, Senior Procurement Specialist, at **832-393-8731** or e-mail to **arturo.lopez@houstontx.gov**.

Electronic Bidding:

In order to submit a bid for the items associated with this procurement, you must fill in the pricing information on the "PLACE BID" page.

Prebid Conference:

A Pre-Bid Conference will be held for all Prospective Bidders in the Strategic Purchasing Division, Concourse Level (Basement), Conference Room #1, City Hall, 901 Bagby, at **1:30 p.m. on Wednesday, May 8, 2013. The site visits will be scheduled at the pre-bid conference.**

All Prospective Bidders are urged to be present. It is the bidder's responsibility to ensure that they have secured and thoroughly reviewed all aspects of the solicitation documents prior to the Pre-Bid Conference. Any revisions to be incorporated into this solicitation document arising from discussions before, during and subsequent to the Pre-Bid Conference will be confirmed in writing by Letter(s) of Clarification prior to the bid due date. Verbal responses will not otherwise alter the specifications, terms and conditions as stated herein.

Bidding forms, specifications, and all necessary information should be downloaded from the Internet at www.houstontx.gov/purchasing/index.html. By registering and downloading this solicitation document, all updates to this solicitation document will be automatically forwarded via e-mail to any registered bidders. This information may also be obtained from the Supplier Assistance Desk, Strategic Purchasing Division, 901 Bagby, Concourse Level, Houston, Texas 77002.

The place of the bid opening may be transferred in accordance with Paragraph (b), (5) of Section 15-3 of The Code of Ordinances, Houston, Texas. The bid-opening meeting may be rescheduled in accordance with Paragraph (b), (6) of said Section 15-3.

The City reserves the right to reject any or all bids, or to accept any bid or combination of bids deemed advantageous to it.

City employees are prohibited from bidding on this solicitation in accordance with the Code of Ordinances Section 15-1.

***CONTENTS:**

- A. OFFER
- B. SCOPE OF WORK/SPECIFICATIONS
- C. GENERAL, SUPPLEMENTARY CONDITIONS AND BOND FORMS

*NOTE 1: Actual page numbers for each section may change when the solicitation document is downloaded from the Internet or because of letters of clarification. Therefore, bidders must read the solicitation document in its entirety and comply with all the requirements set forth therein.

*NOTE 2: **To be considered for award please submit the electronic bid form and the forms listed in section A, including the signature page, which must be signed by a company official authorized to bind the company and a 10% Bid Bond.**

SECTION A



**FORMAL ONE-TIME BID
MECHANICAL REMEDIATION SERVICES FOR THE GENERAL SERVICES DEPARTMENT
Bid No. S50-C24581
NIGP Code: 120-32/993-22/914-50**

To The Honorable Mayor
and City Council Members
of the City of Houston, Texas (the "City"):

The undersigned hereby offers to provide services necessary to **Provide Mechanical Remediation Services at La Nueva Casa Health Clinic, located at 1809 N. Main, Park Place Environmental Control Center, located at 7411 Park Place and the Health and Human Services Department Administration Facility, located at 8000 N. Stadium Dr., Houston, Texas for the General Services Department.** F.O.B. destination point Houston, Texas, in accordance with the City's Specifications and General Terms & Conditions and/or samples/drawings provided herein. When issued by the City of Houston, Letters of Clarification shall automatically become part of this bid document and shall supersede any previous specifications or provisions in conflict with Letters of Clarification. It is the responsibility of the bidder to ensure that it has obtained all such letters. By submitting a bid on this project, bidder shall be deemed to have received all Letters of Clarification and to have incorporated them into the bid.

The City may accept this bid offer by issuance of a Notice of Award Letter and/or a Purchase Order at any time on or before the 120th day following the day this Official Bid Form is opened by the City. This offer shall be irrevocable for 120 days after bid opening or for 90 days after City Council awards the bid, whichever comes last, but this period may be extended by written agreement of the parties.

The City reserves the right to INCREASE quantities during the twelve-month period following the issuance of the first purchase order subject to agreement in writing by the Prime Contractor/Supplier to honor the same bid price.

The City reserves the option, after bids are opened, to adjust the quantities listed on the electronic bid form upward or downward, subject to the availability of funds, and/or make award (s) on a line item basis.

SECTION A

Documents/forms must be downloaded from the City's Website
<http://www.houstontx.gov/purchasing/index.html>

Additional Required Forms to be Included with this bid:

In addition to the electronic Bid Form and the Official Signature Page, the Forms listed in Table 1 **must be completed and submitted to the Office of the City Secretary on or before the date and time the bid is due:**

Table 1
Affidavit of Ownership
Fair Campaign Ordinance
Statement of Residence
Conflict of Interest Questionnaire
Pay or Play Contract Compliance Acknowledgement Form 1a
Contractor References
10% Bid Bond

Table 2 lists other documents and forms that should be viewed/downloaded from the City's website, but are not required to be submitted with the bid. The City will request these forms, as applicable, to be completed and submitted to the City by the recommended/successful bidder:

Table 2
Formal Instructions for Bid Terms
Drug Forms
Insurance Certificates Over \$50,000.00 / Insurance Endorsements
OCP Insurance Certificate Over \$100,000.00
Pay or Play Form 2 / Certification of Agreement to Comply
Pay or Play Form 3 / List of Subcontractors
Performance, Maintenance and Statutory Payment Bonds
2013 Building Construction Wage Decision

Note:

1. Questions concerning the Bid should be submitted in writing to: City of Houston, Strategic Purchasing Division, 901 Bagby, Room B506, Houston, TX 77002, Attn: Arturo Lopez or via fax: 832-393-8759 or via email (preferred method) to arturo.lopez@cityofhouston.net no later than **4:00 PM, Monday, May 13, 2013.**
2. Although it is the intent of the City to award one contract as results of this invitation to bid, the City reserves the right to award by line item/group.

PERMITS:

Successful Contractor shall be responsible for securing any and all permits for proposed work. Any fee charged for these permits should be the responsibility of the Contractor and not the City of Houston.

CITY BUILDING CODES:

All work performed or equipment installed shall be in strict accordance with the City of Houston Building Codes. The Contractor will immediately correct any deficiencies discovered during work or after completion. Failure to correct deficiencies will result in the City having corrections made at the Contractor's expense.

BID BOND:

The bidder shall be required to provide and submit with its bid a Bid Bond in the amount of 10% of the total amount. The Bid Bond shall be in the same form as that distributed by the City, and attached hereto, all duly executed by this Bidder (as "Principal") and by a corporate surety company licensed to do business in the State of Texas, and if the amount of the bond is greater than \$100,000.00 the surety must hold a certificate of authority from the United States Secretary of the Treasury, or a Cashier's or a Certified check in a like amount. Company or personal checks are not acceptable.

PERFORMANCE BOND and PAYMENT BOND:

The successful Contractor(s) shall be required to provide a Performance and Payment Bond in the total amount (100%) of the Contract, if the award is in excess of \$25,000.00.

The Performance and/or Payment Bond shall be in the same form as that distributed by the City, and attached hereto, all duly executed by this bidder (as "Principal") and by an incorporated surety company licensed to do business in the State of Texas. If the amount of the bond is greater than \$100,000.00 the surety must hold a certificate of authority from the United States Secretary of the Treasury.

The Contractor(s) shall be required to provide a Performance and/or Payment Bond as outlined above, which will be delivered to the City Purchasing Agent of the City, on or before the tenth (10th) day following the day the bidder receives notice from the City.

MAINTENANCE BOND:

The Contractor shall furnish a maintenance bond in the total (100%) bid amount in the form required by the City (samples attached). One bond, also referred to as the One Year Maintenance Bond, will be conditioned upon Contractor's repair, replacement or restoration of any work or any portion of the work which is found to be defective or fails in any way to comply strictly with this contract or the plans and specifications for such work within a period of one (1) year from the date of acceptance of such work by the City Council or after the date that the "CO", or its designee in writing, determines, in a written notice to the Contractor, to be the date upon which the project is both substantially complete and available for the full and beneficial occupancy or use of the City.

QUALITY AND WORKMANSHIP:

The bidder must be able to demonstrate upon request that it has performed satisfactorily, services similar to the services specified herein. The bidder will provide records of warranty and repair services performed for others upon request. The City of Houston shall be the sole judge whether the services performed are similar to the scope of services specified herein.

SITE INSPECTION:

The City of Houston reserves the right to inspect the bidder's current place of business to evaluate equipment condition and capabilities, staff experience, training and capabilities, and storage capabilities as they relate to the performance of this contract.

PROTEST:

A protest shall comply with and be resolved, according to the City of Houston Procurement Manual http://purchasing.houstontx.gov/docs/Procurement_Manual.pdf and rules adopted thereunder. Protests shall be submitted in writing and filed with both, the City Attorney and the Solicitation contact person. A pre-award protest of the ITB shall be received five (5) days prior to the solicitation due date and a post-award protest shall be filed within five (5) days after City Council approval of the contract award.

A protest shall include the following:

- The name, address, e-mail, and telephone number of the protester;
- The signature of the protester or its representative who has the delegated authority to legally bind its company;
- Identification of the ITB description and the ITB or contract number;
- A detailed written statement of the legal and factual grounds of the protest, including copies of relevant documents, etc.; and
- The desired form of relief or outcome, which the protester is seeking

INTERLOCAL AGREEMENTS:

Under the same terms and conditions hereunder, the Contract may be expanded to other government entities through inter-local agreements between the City of Houston and the respective government entity that encompass all or part of the products/services provided under this contract. Separate contracts will be drawn to reflect the needs of each participating entity.

NO CONTACT PERIOD:

Neither bidder(s) nor any person acting on bidder(s)'s behalf shall attempt to influence the outcome of the award by the offer, presentation or promise gratuities, favors, or anything of value to any appointed or elected official or employee of the City of Houston, their families or staff members. All inquiries regarding the solicitation are to be directed to the designated City Representative identified on the first page of the solicitation. Upon issuance of the solicitation through the pre-award phase and up to the award, aside from bidder's formal response to the solicitation, communications publicly made during the official prebid conference, written requests for clarification during the period officially designated for such purpose by the City Representative, neither bidder(s) nor persons acting on their behalf shall communicate with any appointed or elected official or employee of the City of Houston, their families or staff through written or oral means in an attempt to persuade or influence the outcome of the award or to obtain or deliver information intended to or which could reasonably result in an advantage to any bidder. However, nothing in this paragraph shall prevent a bidder from making public statements to the City Council convened for a regularly scheduled session after the official selection has been made and placed on the City Council agenda for action.

HIRE HOUSTON FIRST:

Designation as a City Business or Local Business

To be designated as a City or Local Business for the purposes of the Hire Houston First Program, as set out in Article XI of Chapter 15 of the Houston City Code, a bidder or proposer must submit the **Hire Houston First Application and Affidavit ("HHF Affidavit")** to the Director of the Mayor's Office of Business Opportunities and receive notice that the submission has been approved prior to award of a contract. Bidders are encouraged to secure a designation prior to submission of a bid or proposal if at all possible.

Download the HHF Affidavit from the Office of Business Opportunities Webpage at the City of Houston e-Government Website at the following location:

<http://www.houstontx.gov/hbsc/hirehoustonfirstaffidavit.pdf>

Award of a Procurement of \$100,000 or More for Purchase of Goods:

THE CITY WILL AWARD THIS PROCUREMENT TO A "CITY BUSINESS," AS THAT TERM IS DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES ("THE CODE")

- IF THE BID OF THE CITY BUSINESS IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 3% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED IN SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A CITY BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER.

Award of Procurement under \$100,000 for Purchase of Goods:

THE CITY WILL AWARD THIS PROCUREMENT TO A "CITY BUSINESS," AS THAT TERM IS DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES ("THE CODE")

- IF THE BID OF THE CITY BUSINESS IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 5% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED IN SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A CITY BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER

Award of Procurement that may be More or Less than \$100,000 for Purchase of Goods:

THE CITY WILL AWARD THIS PROCUREMENT TO A "CITY BUSINESS," AS THAT TERM IS DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES ("THE CODE")

- IF THE BID OF THE CITY BUSINESS IS LESS THAN \$100,000 AND IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 5% OF THE LOWEST BID RECEIVED, OR
- IF THE BID OF THE CITY BUSINESS IS MORE THAN \$100,000 AND IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 3% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED IN SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A CITY BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER.

Award of Procurement of \$100,000 or More for Purchase of Non-Professional Services , Including Construction Services:

THE CITY WILL AWARD THIS PROCUREMENT TO A "CITY BUSINESS," AS THAT TERM IS

DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES (“THE CODE”)

- IF THE BID OF THE LOCAL BUSINESS IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 3% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED IN SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A LOCAL BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER

Award of Procurement under \$100,000 Purchase of Non-Professional Services Including Construction Services:

THE CITY WILL AWARD THIS PROCUREMENT TO A “LOCAL BUSINESS,” AS THAT TERM IS DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES

- IF THE BID OF THE CITY BUSINESS IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 5% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED N SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A LOCAL BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER

Award of Procurement that may be More or Less than \$100,000 for Purchase of Non-Professional Services, Including Construction Services:

THE CITY WILL AWARD THIS PROCUREMENT TO A ” LOCAL BUSINESS,” AS THAT TERM IS DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES (“THE CODE”)

- IF THE BID OF THE LOCAL BUSINESS IS LESS THAN \$100,000 AND IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 5% OF THE LOWEST BID RECEIVED, OR
- IF THE BID OF THE LOCAL BUSINESS IS MORE THAN \$100,000 AND IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 3% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED IN SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A LOCAL BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER

CONTRACTOR'S QUESTIONNAIRE:

In order to receive bid award consideration, the bidder must be able to demonstrate that they are currently providing or have had at least one contract, for **removing, furnishing and installing chillers, boilers and heat ventilation and air conditioning systems (HVAC)** that is similar in size and scope to this contract. **Bidder must have references documenting that it has removed, furnished and installed chillers, boilers and heat ventilation and air conditioning systems.** The reference(s) should be included in the space provided below. Please attach another piece of paper if necessary. If references are not included with the bid, the bidder shall be required to provide such references to the City of Houston within five working days from receipt of a written request from the City of Houston to do so. **Bidder's capability and experience shall be a factor in determining the Contractor's responsibility.**

1. Business Name: _____

Business Address: _____

City, State, Zip: _____

Name of Owner/Contact Person: _____

Phone: _____ Fax: _____ Email: _____

No. of Years providing Service to this business: _____

2. Business Name: _____

Business Address: _____

City, State, Zip: _____

Name of Owner/Contact Person: _____

Phone: _____ Fax: _____ Email: _____

No. of Years providing Service to this business: _____

3. Business Name: _____

Business Address: _____

City, State, Zip: _____

Name of Owner/Contact Person: _____

Phone: _____ Fax: _____ Email: _____

No. of Years providing Service to this business: _____

4. Business Name: _____

Business Address: _____

City, State, Zip: _____

Name of Owner/Contact Person: _____

Phone: _____ Fax: _____ Email: _____

No. of Years providing Service to this business: _____

SECTION B
SCOPE OF WORK / SPECIFICATIONS

PART I

BID GROUP NO. 1:

1.0 SCOPE OF WORK FOR BID LINE ITEM NOS. 1 & 3:

- 1.1 **Item No. 1.** The Contractor shall be required to provide all supervision, labor, materials, equipment, tools, transportation and ancillary items necessary to remove and properly dispose of an existing 240 ton, air-cooled, roof-top chiller system and associated equipment, at La Nueva Casa Health Clinic, located at 1809 N. Main, Houston Tx 77009. The disposition of the aforementioned existing 240 ton, air-cooled, roof-top chiller system and associated equipment must be done in strict accordance with federal, state, local codes and regulations.
- 1.1.1 All work must be coordinated with the General Services Department (GSD) and the Health and Human Services Department personnel before starting project.
- 1.1.2 List of work to be preformed includes, but not limited to the following:
- 1.1.2.1 Disconnect and demo the existing air cooled chiller off the roof and remove from site.
- 1.1.2.2 The Contractor shall be required to provide a crane for the removal of the old chiller.
- 1.2 **Item No 3.** The Contractor shall be required to provide all labor, materials, equipment, supervision, tools and transportation necessary to install, in strict accordance with the manufacturer's recommended installation methods and applicable federal, state, local codes and regulations, a new 250 ton, air-cooled, roof-top chiller system and associated equipment at the location stated 1.1. above.
- 1.2.1 All work must be coordinated with the General Services Department (GSD) and the Health and Human Services Department personnel before starting project.
- 1.2.2 List of work to be preformed includes, but not limited to, the following:
- 1.2.2.1 Provide any roof work that will be needed to support the new chiller/equipment.
- 1.2.2.2 Set new chiller.
- 1.2.2.3 Provide all necessary materials and labor to re-connect chiller piping.
- 1.2.2.4 Provide all new pipe insulation to match existing materials.
- 1.2.2.5 Provide all necessary electrical work and materials required to reconnect chiller for proper installation.
- 1.2.2.6 Make connection or proper modification to the condenser fan section duct.

1.2.2.7 The Contractor shall be required to provide a crane for the installation of the new chiller.

1.2.3 Chiller Specification & Startup:

1.2.3.1 The new chiller system must have;

1.2.3.1.1 An epoxy coated condenser coil.

1.2.3.1.2 Screw compressors.

1.2.3.2 The Contractor shall be required to perform start up for proper operation.

1.2.3.3 The Contractor shall arrange for (GSD) personnel to be present during startup of chiller.

1.2.3.4 The Contractor shall be required to provide all equipment manuals to GSD upon completion, and any startup data documentation.

1.2.4 Clean-up

1.2.4.1 The Contractor shall be required to clean the area daily. At the completion of project, the Contractor shall be required to remove all trash, rubble and debris.

2.0 GENERAL SCOPE OF WORK FOR BID LINE ITEM NO. 2 (See Part II for Technical Specifications)

2.1 The Contractor shall be required to furnish one new 250 ton, air-cooled, roof-top chiller system and associated equipment in strict accordance with the technical specifications in Part II.

2.2 The new 250 ton, air-cooled, roof-top chiller system and associated equipment must be able to be installed with no/minimal modifications to the existing infrastructure. Any modifications required to install the new 250 ton, air-cooled, roof-top chiller system and associated equipment to the existing infrastructure shall be the responsibility of the Contractor at no additional cost to the City.

3.0 PERFORMANCE TIME:

3.1 The Contractor shall have **84 Calendar Days** to complete all work associated with this project after receipt of the Notice – To – Proceed.

4.0 WARRANTY:

4.1 The Contractor shall provide a minimum of one (1) year for all labor, materials and workmanship and five (5) years on the compressor parts. The warranty period for the new chiller system shall commence the day the City officially accepts the complete work at the site. All warranty work is to be completed, without cost to the City, within fifteen (15) days after notification of a service problem.

BID GROUP NO. 2:

5.0 SCOPE OF WORK FOR BID LINE ITEM NOS. 1 & 3:

- 5.1 **Item No. 1.** The Contractor shall be required to provide all supervision, labor, materials, equipment, tools, transportation and ancillary items necessary to remove and properly dispose of an existing 750,000 BTU, boiler system and associated equipment, at Park Place Environmental Control Center, located at 7411 Park Place Houston Tx 77087. The disposition of the aforementioned existing 750,000 BTU, boiler system and associated equipment must be done in strict accordance with federal, state, local codes and regulations.
- 5.1.1 All work must be coordinated with GSD and the Health and Human Services Department personnel before the start of project.
- 5.1.2 List of work to be performed includes, but not limited to, the following:
- 5.1.2.1 Disconnect and remove existing boiler and associated parts from the facility.
- 5.2 **Item No 3.** The Contractor shall be required to provide all labor, materials, equipment, supervision, tools and transportation necessary to install, in strict accordance with the manufacturer's recommended installation methods and applicable federal, state, local codes and regulations, a new 750,000 BTU, boiler system and associated equipment at the location stated 1.1. above.
- 5.2.1 All work must be coordinated with GSD and the Health and Human Services Department personnel before the start of project.
- 5.2.2 List of work to be performed includes, but not limited to the following:
- 5.2.2.1 Install the new boiler and re-connecting system making any modification to the installation required for boiler to pass inspection.
- 5.2.2.2 Provide new pipe insulation to match existing materials.
- 5.2.2.3 Supply any electrical modification required for proper installation.
- 5.2.2.4 Install the new boiler controls and wiring back to the in house Metasys thermostat control system.
- 5.2.3 Installation:
- 5.2.3.1 The Contractor shall be required to provide all equipment needed to install the new boiler system and associated equipment.
- 5.2.4 Boiler Specification & Startup:
- 5.2.4.1 The Contractor shall be required to perform start up for proper operation and document operational data.

5.2.4.2 The Contractor shall arrange for GSD personnel to be present during startup of the new boiler system.

5.2.4.3 The Contractor shall be required to provide all equipment manuals and any startup data documentation to GSD upon completion.

5.2.5 Clean-up:

5.2.5.1 The Contractor shall be required to clean the area daily. At the completion of project, the Contractor shall remove all trash, rubble and debris.

6.0 GENERAL SCOPE OF WORK FOR BID LINE ITEM NO. 2 (See Part II for Technical Specifications)

6.1 The Contractor shall be required to furnish one new 750,000 BTU, boiler system and associated equipment in strict accordance with the technical specifications in Part II.

6.2 The new 750,000 BTU, boiler system and associated equipment must be able to be installed with no/minimal modifications to the existing infrastructure. Any modifications required to install the new 750,000 BTU, boiler system and associated equipment to the existing infrastructure shall be the responsibility of the Contractor at no additional cost to the City.

7.0 PERFORMANCE TIME:

7.1 The Contractor shall have **70 Calendar Days** to complete all work associated with this project after receipt of the Notice – To – Proceed.

8.0 WARRANTY:

8.1 The Contractor shall provide a minimum of one (1) year for all labor, materials and workmanship. The warranty period for the new boiler system shall commence the day the City officially accepts the complete work at the site. All warranty work is to be completed, without cost to the City, within fifteen (15) days after notification of a service problem.

BID GROUP NO. 3:

9.0 GENERAL SCOPE OF WORK FOR BID LINE ITEM NO. 1 (See Part II for Technical Specifications)

9.1 The Contractor shall be required to furnish **two new four ton heating ventilation and air conditioning (HVAC) systems** and associated equipment in strict accordance with the technical specifications in Part II.

9.2 The two new four ton heating ventilation and air conditioning (HVAC) systems and associated equipment must be able to be installed with no/minimal modifications to the existing infrastructure. Any modifications required to install the two new four ton HVAC systems and associated equipment to the existing infrastructure shall be the responsibility of the Contractor at no additional cost to the City.

10.0 SCOPE OF WORK FOR BID LINE ITEM NO. 2:

- 10.1 **Item No 2.** The Contractor shall be required to provide all labor, materials, equipment, supervision, tools and transportation necessary to install, in strict accordance with the manufacturer's recommended installation methods and applicable federal, state, local codes and regulations, two new four ton HVAC systems and associated equipment in the garage stairwells at the Health and Human Services Department Administration Facility, location at 8000 N Stadium Dr, Houston Tx 77054.
- 10.2 All work must be coordinated with GSD and the Health and Human Services Department personnel before start of project.
- 10.3 List of work to be preformed includes, but not limited to, the following:
 - 10.3.1 Provide necessary cutting and coring of concrete walls, floors or ceilings for the installation of ac piping, duct work, electrical and controls.
 - 10.3.2 Install two 4 ton package HVAC units with electric heat.
 - 10.3.3 Provide internally insulated sheet metal to supply air to each floor, return air grille to terminate at top floor wall penetration.
 - 10.3.4 Provide all drain piping materials as necessary for properly draining of unit.
 - 10.3.5 Install electrical power to each unit. The electrical conections are located on the 2nd floor electrical vault.
 - 10.3.6 Install HVAC controls andwiring back to the in house Metasys thermostat controller system.
- 10.4 HVAC Package Units Specification & Startup:
 - 10.4.1 Four ton package units with electric heat.
 - 10.4.2 The Contractor shall be required to perform start up for proper operation; documenting operational data.
 - 10.4.3 The Contractor shall arrange for GSD personnel to be present during startup of units.
 - 10.4.4 The Contractor shall be required to provide all equipment manuals and any startup data documentation to GSD upon completion.
- 10.5 Clean-up:
 - 10.5.1 The Contractor shall be required to clean the area daily. At the completion of project, contractor shall be required to remove all trash, rubble and debris.

11.0 WARRANTY:

- 11.1 The Contractor shall provide a minimum of one (1) year for all labor, materials and workmanship and five (5) years on the compressor parts. The warranty period for the two new heating ventilation and air conditioning systems shall commence the day the

City officially accepts the complete work at the site. All warranty work is to be completed, without cost to the City, within fifteen (15) days after notification of a service problem.

12.0 PERFORMANCE TIME:

12.1 The Contractor shall have ***49 Calendar Days*** to complete all work associated with this project after receipt of the Notice – To – Proceed.

13.0 SPECIFIED EQUIPMENT OR EQUIVALENT:

13.1 Wherever in the specifications any materials or processes are indicated or specified by patent of proprietary name and/or by name of manufacturer, such specifications shall be deemed to be used for the purpose of facilitating descriptions of the performance, materials and/or processes desired and shall be deemed to be followed by the words, "or equivalent", if not so stated in the specifications herein.

13.2 The burden of proof shall rest with the bidder, in the course of a technical evaluation, to prove that the proposed item(s) are equivalent to the performance, materials, processes, or articles specified. DETERMINATION AS TO WHETHER THE ITEM (S) BID IS (ARE) EQUIVALENT TO THOSE SPECIFIED SHALL REST SOLELY WITH THE CITY PURCHASING AGENT AND THE RECEIVING DEPARTMENT.

14.0 BRAND NAME OR TRADE NAME:

14.1 Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing the general quality level, design and performance desired. Such references are not intended to limit or restrict bidding by other Contractors/Suppliers, but are intended to approximate the quality design or performance that is desired. Any bid that proposes like quality, design or performance, will be considered. Equivalent products will be considered, provided a complete description and product literature is provided. Unless a specific exception is made, the assumption will be that the item bid is exactly as specified on the Invitation to Bid.

END OF SECTION

TECHNICAL SPECIFICATIONS

PART II

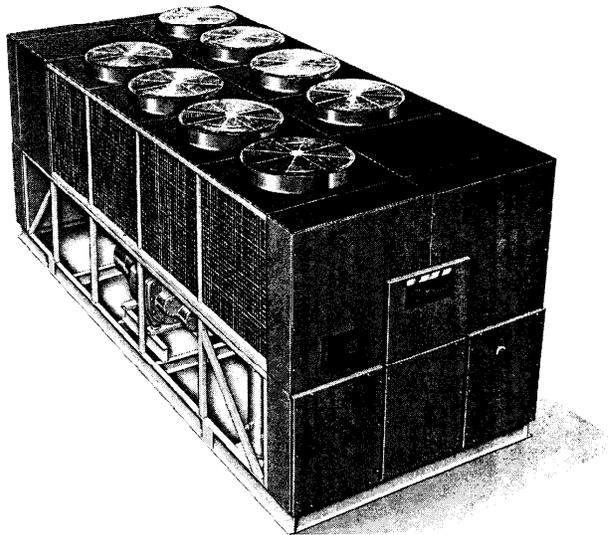
BID GROUP NO. 1, BID LINE ITEM NO. 2 – CHILLER SYSTEM AND ASSOCIATED EQUIPMENT:

1.0 Reference manufacturer: **TRANE**; Model No. RTAC 250, or *City approved equal*.



Air-Cooled Series R™ Rotary Liquid Chiller

Model RTAC
140 to 500 Tons (60 Hz)
140 to 400 Tons (50 Hz)
Built For the Industrial and Commercial Markets



August 2002

RLC-PRC006-EN



Mechanical Specifications

General

Units are leak and pressure tested at 437 psig high side, 250 psig low side, then evacuated and charged. All Air-Cooled Series R Chillers are factory tested prior to shipment. Packaged units ship with a full operating charge of oil and refrigerant. Unit panels, structural elements and control boxes are constructed of 12-gauge galvanized steel and mounted on a welded structural steel base. Unit panels and control boxes are finished with a baked on powder paint, and the structural base with an air dry paint. All paint meets the requirement for outdoor equipment of the U.S. Navy and other federal government agencies.

Evaporator

The evaporator is a tube-in-shell heat exchanger design with internally and externally finned copper tubes roller expanded into the tube sheet. The evaporator is designed, tested and stamped in accordance with ASME for a refrigerant side working pressure of 200 psig. The evaporator is designed for a water side working pressure of 150 psig. Water connections are grooved pipe. Each shell includes a vent, a drain and fittings for temperature control sensors and is insulated with 3/4-inch (140-250) or 1 1/2-inch (275-500) Armaflex II or equal insulation (K=0.26). Evaporator heaters with thermostat are provided to help protect the evaporator from freezing at ambient temperatures down to -20°F.

Condenser and Fans

Air-cooled condenser coils have aluminum fins mechanically bonded to internally finned seamless copper tubing. The condenser coil has an integral subcooling circuit. Condensers are factory proof and leak tested at 506 psig. Direct-drive vertical discharge condenser fans are dynamically balanced. Three-phase condenser fan motors with permanently lubricated ball bearings and internal thermal overload protection are provided. Standard units will start and operate between 25 to 115°F/-4 to 46°C ambient.

Compressor and Lube Oil System

The rotary screw compressor is semi-hermetic, direct drive, 3600 rpm (60 Hz), 3000 rpm (50 Hz), with capacity control slide valve, a load/unload valve, rolling element bearings, differential refrigerant pressure oil pump and oil heater. The motor is a suction gas cooled, hermetically sealed, two-pole squirrel cage induction motor. Oil separator and filtration devices are provided separate from the compressor. Check valves in the compressor discharge and lube oil system and a solenoid valve in the lube system are also provided.

Refrigeration Circuits

Each unit has two refrigerant circuits, with one or two rotary screw compressors per circuit. Each refrigerant circuit includes a compressor suction and discharge service valve, liquid line shutoff valve, removable core filter, liquid line sight glass with moisture indicator, charging port and an electronic expansion valve. Fully modulating compressors and electronic expansion valves provide variable capacity modulation over the entire operating range.

Unit Controls

All unit controls are housed in an outdoor rated weathertight enclosure with removable plates to allow for customer connection of power wiring and remote interlocks. All controls, including sensors, are factory mounted and tested prior to shipment. Microcomputer controls provide all control functions including start-up and shut down, leaving chilled water temperature control, compressor and electronic expansion valve modulation, fan sequencing, anti-recycle logic, automatic lead/lag compressor starting and load limiting. The unit control module, utilizing Adaptive Control™ microprocessor, automatically takes action to avoid unit shutdown due to abnormal operating conditions associated with low refrigerant pressure, high condensing pressure and motor current overload. Should the abnormal operating condition continue until a

protective limit is violated, the unit will be shut down. Unit protective functions include loss of chilled water flow, evaporator freezing, loss of refrigerant, low refrigerant pressure, high refrigerant pressure, reverse rotation, compressor starting and running over current, phase loss, phase imbalance, phase reversal, and loss of oil flow. A digital display indicates chilled water setpoint and leaving chilled water temperature as standard. While current limit setpoint, evaporator and condenser refrigerant pressures, and electrical information are an option. Both standard and optional displays can be viewed on the unit without opening any control panel doors. Standard power connections include main three phase power to the compressors, condenser fans and control power transformer and optional connections are available for the 115 volt/60 Hz single phase power for freeze protection on the evaporator heaters.

Starters

Starters are housed in a weathertight enclosure with removable cover plate to allow for customer connection of power wiring. Across-the-line starters are standard on all 380-575/60 and 400/50 volt units. Wye Delta closed transition starters (33 percent of LRA inrush) are optional on 380-575/60 and 400/50 volt units and standard on 200-230/60 Hz volt units. Typically, Trane helical-rotary screw compressors are up to full speed in one second when started across-the-line and have equivalent inrush with similar size reciprocating compressor with part wind starters.

Chilled Water Reset

This provides the control logic and factory installed sensors to reset leaving chilled water temperature. The setpoint can be reset based on ambient temperature or return evaporator water temperature.

Flow Control

This provides the control logic and relays to turn the chilled water flow on and off as the chiller requires for operation and protection. This function is a requirement on the Air-Cooled Series R Chiller.

TRANE; Model No. RTAC 250, Mechanical Specifications



To Convert From:	To:	Multiply By:	To Convert From:	To:	Multiply By:
Length					
Feet (ft)	meters (m)	.30481	British Thermal Units (BTU)	Kilowatt (kW)	.00293
Inches (in)	millimeters (mm)	25.4	British Thermal Units (BTU)	KCalorie (Kcal)	.252
Area					
Square Feet (ft ²)	square meters (m ²)	.093	Tons (refrig. effect)	Kilowatt (refrig. effect)	3.516
Square Inches (In ²)	square millimeters (mm ²)	645.2	Tons (refrig. effect)	Kilocalories per hour (Kcal/hr)	3024
Volume					
Cubic Feet (ft ³)	Cubic meters (m ³)	.0283	Horsepower	Kilowatt (kW)	.7457
Cubic Inches (In ³)	Cubic mm (mm ³)	16387	Pressure		
Gallons (gal)	litres (l)	3.785	Feet of water (ftH ₂ O)	Pascals (PA)	2.990
Gallons (gal)	cubic meters (m ³)	.003785	Inches of water (inH ₂ O)	Pascals (PA)	.249
Flow					
Cubic feet/min (cfm)	cubic meters/second (m ³ /s)	.000472	Pounds per square inch (PSI)	Pascals (PA)	6895
Cubic feet/min (cfm)	cubic meters/hr (m ³ /hr)	1.69884	Weight		
Gallons/minute (GPM)	cubic meters/hr (m ³ /hr)	.2271	Ounces (oz)	Kilograms (kg)	.02835
Gallons/minute (GPM)	litres/second (l/s)	.06308	Pounds (lbs)	Kilograms (Kg)	.4536
Velocity					
Feet per minute (ft/m)	meters per second (m/s)	.00508	Fouling factors for heat exchangers		
Feet per second (ft/s)	meters per second (m/s)	.3048	.00010 ft ² °F hr/BTU	= .0176 m ² K/W	
			.00025 ft ² °F hr/BTU	= .044 m ² K/W	

Temperature — Centigrade (°C) Versus Fahrenheit (°F)
 Note: The center columns of numbers, referred to as BASE TEMP., is the temperature in either degrees Fahrenheit (°F) or Centigrade (°C), whichever is desired to convert into the other. If degrees Centigrade is given, read degrees Fahrenheit to the right. If degrees Fahrenheit is given, read degrees Centigrade to the left.

Temperature			Temperature			Temperature			Temperature			Temperature		
°C	C or F	°F	°C	C or F	°F	°C	C or F	°F	°C	C or F	°F	°C	C or F	°F
-40.0	-40	-40.0	-15.0	+8	+41.0	+10.0	+50	+122.0	+38.0	+96	+203.0	+80.0	+140	+284.0
-39.4	-39	-39.2	-14.4	+8	+42.8	+10.6	+51	+123.8	+36.6	+96	+204.8	+80.6	+141	+285.8
-38.9	-38	-38.4	-13.9	+7	+44.8	+11.1	+52	+125.8	+36.1	+97	+206.6	+81.1	+142	+287.8
-38.3	-37	-37.8	-13.3	+8	+46.4	+11.7	+53	+127.4	+36.7	+98	+208.4	+81.7	+143	+289.4
-37.8	-36	-37.2	-12.8	+9	+48.2	+12.2	+54	+129.2	+37.2	+98	+210.2	+82.2	+144	+291.2
-37.2	-36	-31.0	-12.2	+10	+50.0	+12.8	+55	+131.0	+37.8	+100	+212.0	+82.8	+145	+293.0
-36.7	-34	-29.2	-11.7	+11	+51.8	+13.3	+56	+132.8	+38.3	+101	+213.8	+83.3	+146	+294.8
-36.1	-33	-27.4	-11.1	+12	+53.6	+13.9	+57	+134.6	+38.9	+102	+215.6	+83.9	+147	+296.6
-35.6	-32	-25.6	-10.6	+13	+55.4	+14.4	+58	+136.4	+39.4	+103	+217.4	+84.4	+148	+298.4
-35.0	-31	-23.8	-10.0	+14	+57.2	+15.0	+59	+138.2	+40.0	+104	+219.2	+85.0	+148	+300.2
-34.4	-30	-22.0	-9.4	+15	+59.0	+15.6	+60	+140.0	+40.6	+106	+221.0	+85.6	+150	+302.0
-33.9	-29	-20.2	-8.9	+16	+60.8	+16.1	+61	+141.8	+41.1	+106	+222.8	+86.1	+151	+303.8
-33.3	-28	-18.4	-8.3	+17	+62.6	+16.7	+62	+143.6	+41.7	+107	+224.6	+86.7	+152	+305.6
-32.8	-27	-16.6	-7.8	+18	+64.4	+17.2	+63	+145.4	+42.2	+108	+226.4	+87.2	+153	+307.4
-32.2	-26	-14.8	-7.2	+19	+66.2	+17.8	+64	+147.2	+42.8	+108	+228.2	+87.8	+154	+309.2
-31.7	-25	-13.0	-6.7	+20	+68.0	+18.3	+65	+149.0	+43.3	+110	+230.0	+88.3	+155	+311.0
-31.1	-24	-11.2	-6.1	+21	+69.8	+18.9	+66	+150.8	+43.9	+111	+231.8	+88.9	+156	+312.8
-30.6	-23	-9.4	-5.5	+22	+71.6	+19.4	+67	+152.6	+44.4	+112	+233.6	+89.4	+157	+314.6
-30.0	-22	-7.6	-5.0	+23	+73.4	+20.0	+68	+154.4	+45.0	+113	+235.4	+90.0	+158	+316.4
-29.4	-21	-5.8	-4.4	+24	+75.2	+20.6	+69	+156.2	+45.6	+114	+237.2	+90.6	+158	+318.2
-28.9	-20	-4.0	-3.9	+25	+77.0	+21.1	+70	+158.0	+46.1	+115	+239.0	+91.1	+160	+320.0
-28.3	-19	-2.2	-3.3	+26	+78.8	+21.7	+71	+159.8	+46.7	+116	+240.8	+91.7	+161	+321.8
-27.8	-18	-0.4	-2.8	+27	+80.6	+22.2	+72	+161.6	+47.2	+117	+242.6	+92.2	+162	+323.6
-27.2	-17	+1.4	-2.2	+28	+82.4	+22.8	+73	+163.4	+47.8	+118	+244.4	+92.8	+163	+325.4
-26.7	-16	+3.2	-1.7	+29	+84.2	+23.3	+74	+165.2	+48.3	+119	+246.2	+93.3	+164	+327.2
-26.1	-15	+5.0	-1.1	+30	+86.0	+23.9	+75	+167.0	+48.9	+120	+248.0	+93.9	+165	+329.0
-25.6	-14	+6.8	-0.6	+31	+87.8	+24.4	+76	+168.8	+49.4	+121	+249.8	+94.4	+166	+330.8
-25.0	-13	+8.6	0	+32	+89.6	+25.0	+77	+170.6	+50.0	+122	+251.6	+95.0	+167	+332.6
-24.4	-12	+10.4	+0.6	+33	+91.4	+25.6	+78	+172.4	+50.6	+123	+253.4	+95.6	+168	+334.4
-23.9	-11	+12.2	+1.1	+34	+93.2	+26.1	+79	+174.2	+51.1	+124	+255.2	+96.1	+169	+336.2
-23.3	-10	+14.0	+1.7	+35	+95.0	+26.7	+80	+176.0	+51.7	+125	+257.0	+96.7	+170	+338.0
-22.8	-9	+15.8	+2.2	+36	+96.8	+27.2	+81	+177.8	+52.2	+126	+258.8	+97.2	+171	+339.8
-22.2	-8	+17.6	+2.8	+37	+98.6	+27.8	+82	+179.6	+52.8	+127	+260.6	+97.8	+172	+341.6
-21.7	-7	+19.4	+3.3	+38	+100.4	+28.3	+83	+181.4	+53.3	+128	+262.4	+98.3	+173	+343.4
-21.1	-6	+21.2	+3.9	+39	+102.2	+28.9	+84	+183.2	+53.9	+129	+264.2	+98.9	+174	+345.2
-20.6	-5	+23.0	+4.4	+40	+104.0	+29.4	+85	+185.0	+54.4	+130	+266.0	+99.4	+175	+347.0
-20.0	-4	+24.8	+5.0	+41	+105.8	+30.0	+86	+186.8	+55.0	+131	+267.8	+100.0	+176	+348.8
-19.4	-3	+26.6	+5.5	+42	+107.6	+30.6	+87	+188.6	+55.6	+132	+269.6	+100.6	+177	+350.6
-18.9	-2	+28.4	+6.1	+43	+109.4	+31.1	+88	+190.4	+56.1	+133	+271.4	+101.1	+178	+352.4
-18.3	-1	+30.2	+6.7	+44	+111.2	+31.7	+89	+192.2	+56.7	+134	+273.2	+101.7	+179	+354.2
-17.8	0	+32.0	+7.2	+45	+113.0	+32.2	+90	+194.0	+57.2	+135	+275.0	+102.2	+180	+356.0
-17.2	+1	+33.8	+7.8	+46	+114.8	+32.8	+91	+195.8	+57.8	+136	+276.8	+102.8	+181	+357.8
-16.7	+2	+35.6	+8.3	+47	+116.6	+33.3	+92	+197.6	+58.3	+137	+278.6	+103.3	+182	+359.6
-16.1	+3	+37.4	+8.9	+48	+118.4	+33.9	+93	+199.4	+58.9	+138	+280.4	+103.9	+183	+361.4
-15.6	+4	+39.2	+9.4	+49	+120.2	+34.4	+94	+201.2	+59.4	+139	+282.2	+104.4	+184	+363.2

FOR INTERPOLATION IN THE ABOVE TABLE USE:

BASE TEMPERATURE (°F or °C):	1	2	3	4	5	6	7	8	9	10
DEGREES CENTIGRADE:	0.98	1.11	1.67	2.22	2.78	3.33	3.89	4.44	5.00	5.56
DEGREES FAHRENHEIT:	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0

RLC-PRC006-EN

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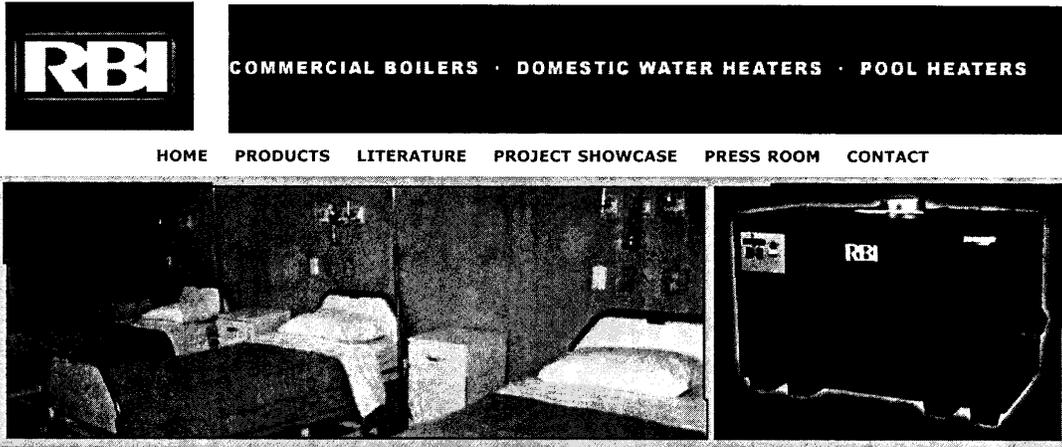
A PDF version of the Mechanical Specifications can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24581>

BID GROUP 2, BID LINE ITEM NO. 2 – BOILER SYSTEM AND ASSOCIATED EQUIPMENT:

1.0 Reference Manufacturer: **RBI; Model No. Dominator Series 900,000, or City approved equal.**

Boilers, Pool Heaters, Hydronic Heating, Water Heaters, and Storage Tanks by RBI

Page 1 of 1



RBI PRODUCTS

- [FUTERA FUSION XLF Series](#)
- [INFINITE ENERGY Series](#)
- [FUTERA XLF Series](#)
- [FUTERA FUSION Series](#)
- [FUTERA III Series](#)
- [FUTERA II Series](#)
- [DOMINATOR Series](#)
- [LCD DOMINATOR Series](#)
- [8800 Series](#)
- [8900 Series](#)
- [SPECTRUM Series](#)
- [HeatNet Controls](#)
- [Pool Heaters](#)
- [Storage Tanks](#)

PRODUCT LITERATURE

- Submittal
- BIM
- Piping Diagram
- Catalog
- Installation & Operation Manual



Improve boiler efficiency; cut outside air louver size by 70 - 80%; maintain an ideal boiler room environment

PRODUCTS > DOMINATOR

The Dominator™ Series from RBI offers the ultimate flexibility in boiler and water heater application at a competitive price. Efficiencies of 85.1% are among the highest available in non-condensing boiler and water heater designs. The Dominator incorporates all the latest technological advances that engineers, contractors, and building owners look for when specifying boilers and water heaters.



The Dominator can operate using mechanical room air for combustion or by drawing outside air directly as a sealed combustion product. Units can vent combustion gases vertically or horizontally with factory equipped draft-inducer kits.

Where mechanical space is limited the Dominator's stackable frame option allows units to be stacked two-high, adding valuable BTU's while keeping the footprint to the size of a single unit. Built-in serviceability features include, a slide out heat exchanger that saves valuable service time by allowing the contractor to remove the heat exchanger for service or repair, without having to disassemble the entire unit.

Standard Equipment

- 85.1% Efficiency
- Bronze Headers (Water Heaters)
- Cast Iron Headers (Boilers)
- Integral PID Staging Control
- Outdoor Reset
- Low NOx
- Slide Out Heat Exchanger
- Finned Copper Tube Heat Exchanger
- Tekmar Sensor
- Low Voltage Controls
- ASME Pressure Relief Valve Mounted
- Pump Delay Control
- LED Diagnostic Panel
- Uginox Alloy Stainless Steel Burners
- 2 Stage Firing (300 - 2100)
- 4 Stage Firing (1050 - 2100)
- Sealed Combustion Chamber
- Temperature/Pressure Gauge (Boilers)
- Flow Switch Mounted and Wired
- FM Compliant Gas Train
- Category I or III Venting
- Leak Test Valves
- Side Combustion Air Intake (300 - 2100)
- Rear Combustion Air Intake (750 - 2100)
- Direct Vent up to 35' Equivalent
- SCAQMD Rule 1146.2

RBI; Model No. Dominator Series 900,000, Mechanical Specifications

Boilers, Pool Heaters, Hydronic Heating, Water Heaters, and Storage Tanks by RBI

Page 1 of 2



COMMERCIAL BOILERS · DOMESTIC WATER HEATERS · POOL HEATERS

HOME PRODUCTS LITERATURE PROJECT SHOWCASE PRESS ROOM CONTACT



RBI PRODUCTS

[FUTERA FUSION XLF Series](#)
[INFINITE ENERGY Series](#)
[FUTERA XLF Series](#)
[FUTERA FUSION Series](#)
[FUTERA III Series](#)
[FUTERA II Series](#)
[DOMINATOR Series](#)
[LCD DOMINATOR Series](#)
[8800 Series](#)
[8900 Series](#)
[SPECTRUM Series](#)
[HeatNet Controls](#)
[Pool Heaters](#)
[Storage Tanks](#)

PRODUCT LITERATURE

Submittal
BIM
Piping Diagram
Catalog
Installation & Operation
Manual

Mestek
CAS
Combustion
Air System

Improve boiler efficiency; cut
outside air louver size by 70 -
80%; maintain an ideal boiler
room environment

PRODUCTS > DOMINATOR

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- [Standard Equipment](#)
 [Options](#)

Propane Gas
Cupronickel Heat Exchanger
Wired & Mounted Flange
5' Pump Pigtail
Alarm Bell
Flame Failure Dry Contact
Main Flame Status Relay
Enable/Disable Relay 24V
Enable/Disable Relay 120V
Low Gas Pressure Switch
High Gas Pressure Switch
Right Hand Water Connection
C.A.D. Dry Contact
Freeze Protection Kit
Stainless Steel Jacket
Power Venting Wiring
Three Phase Pump Contactor
Remote/Local Switch
Sidewall Vent Kit
Sidewall Vent Kit w/ Air Intake Hood
Vent Termination Hood
Air Intake Hood
Barometric Damper
Outdoor Installation
Pump

<http://www.rbiwaterheaters.com/dominator.asp>

4/11/2013

A PDF version of the Mechanical Specifications can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24581>

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BID GROUP 3, BID LINE ITEM NO. 1 – FOUR TON HVAC PACKAGE SYSTEM AND ASSOCIATED EQUIPMENT:

1.0 Reference Manufacturer: **YORK; Model No. ZF048CC00N**, or *City approved equal*.

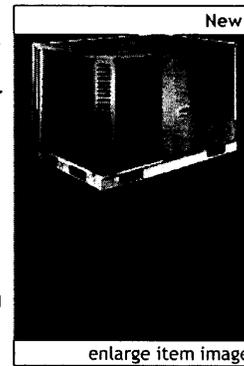
YORK 4 TON Package Heat Pump Latitude UQ - Detailed item view - Welcome HVAC Heating and Ai... Page 1 of 1

Detailed item view

AVAILABLE PRODUCTS FOR SALE » Package Systems » Package Heat Pump-Electric » York Package Heat Pump 13 SEER All Electric UQ » YORK 4 TON Package Heat Pump Latitude UQ

YORK 4 TON Package Heat Pump Latitude UQ

The York® Latitude™ unit is this season's best comfort solution. Built to meet the needs of how people live and work today, the Latitude™ design combines durability and efficiency to deliver dependable performance year after year. You'll find Latitude™ units use advanced technology and product design to save space and energy. When you add up the performance, value and quality, nothing beats a York® Latitude™ unit. Durable, efficient MicroChannel condenser coil. The all-aluminum MicroChannel condenser coil provides outstanding efficiency and reliability thanks to its advanced heat transfer capabilities and durable construction. (MicroChannel coils only apply to air conditioning models.) Easy installation and maintenance. Often small pad space and big unit size and weight make installation a big burden. Latitude™ reduces those challenges with a compact design that's easier to work with than many commercial units of comparable capacity. Easy Installation Reliable MicroChannel Reliability you can count on. To ensure years of trouble-free operation, York builds strength and durability into our outdoor units. Look at the cabinet, the coil, the components and you'll find the kind of quality you can count on for residential and light commercial applications. Your unit is ready for you to install a Aux heat strip pick your size and order together. For the nights when it just needs extra help to keep you super comfortable. Heat Aux is extra and needs to be ordered separate. You can find the Matching Aux Heaters above. After you register you will have a 10 Year Parts / 10 Year compressor warranty from the manufacturer



Item number UQ048C00A1AAA1

Manufacturer



York

Shipping weight 400.00 lb

[Contact Us](#) [GTC](#) [Privacy](#) [Shipping Policy](#) [Return Policy](#)
Welcome to HVAC at fantastic Cheap prices

http://welcomehvac.com/shop/article_UO048C00A1AAA1/YORK-4-TON-Package-Heat-Pump-Latitude... 4/11/2013

END OF SECTION

SECTION C

BUILDING WAGE SCALE

A PDF version of the Building Wage Scale can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24581>

GENERAL CONDITIONS

A PDF version of the General Conditions can be viewed on the following web link:
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24581>

Document 00800

SUPPLEMENTARY CONDITIONS

The following Paragraphs amend and supplement the 2011 edition of General Conditions. Unaltered portions of General Conditions remain in effect.

ARTICLE 3 - THE CONTRACTOR

3.5 *LABOR: Insert the following Paragraph 3.5.3.1.1.*

3.5.3.1.1 Contractor shall make good faith efforts to comply with the City ordinances regarding Minority and Women Business Enterprises (MWBE) and Persons with Disabilities Business Enterprises (PDBE) participation goals which are as follows:

- .1 the MWBE goal is 0 percent, and
- .2 the PDBE goal is 0 percent.

3.28 **CONTRACTOR DEBT**

3.28.1 **IF CONTRACTOR, AT ANY TIME DURING THE TERM OF THIS AGREEMENT, INCURS A DEBT, AS THE WORD IS DEFINED IN SECTION 15-122 OF THE HOUSTON CITY CODE OF ORDINANCES, IT SHALL IMMEDIATELY NOTIFY CITY CONTROLLER IN WRITING. IF CITY CONTROLLER BECOMES AWARE THAT CONTRACTOR HAS INCURRED A DEBT, IT SHALL IMMEDIATELY NOTIFY CONTRACTOR IN WRITING. IF CONTRACTOR DOES NOT PAY THE DEBT WITHIN 30 DAYS OF EITHER SUCH NOTIFICATION, CITY CONTROLLER MAY DEDUCT FUNDS IN AN AMOUNT EQUAL TO THE DEBT FROM ANY PAYMENTS OWED TO CONTRACTOR UNDER THIS AGREEMENT, AND CONTRACTOR WAIVES ANY RECOURSE THEREFORE.**

ARTICLE 8 - TIME

- 8.1 *PROGRESS AND COMPLETION: Delete Paragraph 8.1.6. and replace with the following 8.1.6.*
- 8.1.6.1 Contractor shall credit the City by Change Order for inspection services for overtime work or work performed on Sundays or Legal Holidays. The amount Contractor credits the City will be **\$50.00 per hour** per inspector for inspection services.

ARTICLE 9 - PAYMENTS AND COMPLETION

- 9.1 *UNIT PRICE WORK: Delete Section 9.1 in its entirety and insert the following Section 9.1.*
- 9.1 References to Unit Prices in individual Specification sections are not applicable to the Contract. Include payment for portions of the Work required by these sections in the Stipulated Price for the Contract.
- 9.12 LIQUIDATED DAMAGES: Insert the following Paragraph 9.12.1.1.**
- 9.12.1.1 *The amount of liquidated damages provided in General Conditions Paragraph 9.12.1 payable by Contractor or Surety for each and every day of delay beyond Contract Time, are \$500.00 per day.***

ARTICLE 11 - INSURANCE AND BONDS

- 11.2 *INSURANCE TO BE PROVIDED BY CONTRACTOR: Delete Paragraph 11.2.8. and replace with the following 11.2.8.*
- 11.2.1.4 Contractor shall provide Owners and Contractor's Protective Liability Insurance only if the contractor's bid price is equal to or greater than \$100,000.00.
- 11.2.8 *Endorsement of Primary Insurance: Each policy except Workers' Compensation Insurance must contain an endorsement that the policy is primary insurance to any other insurance available to additional insured with respect to claims arising under the Contract.*

ONE-YEAR MAINTENANCE BOND

THAT WE, _____, as Principal, hereinafter called Contractor, and the other subscriber hereto, _____, as Surety, do hereby acknowledge ourselves to be held and firmly bound to the City of Houston, a municipal corporation, in the sum of \$_____, for the payment of which sum well and truly to be made to the City of Houston and its successors, the said Contractor and Surety do bind themselves, their heirs, executors, administrators, successors, jointly and severally.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT:

WHEREAS, the Contractor has on or about this day executed a Contract in writing with the City of Houston for _____, all of such work to be done as set out in full in said Contract documents therein referred to and adopted by the City Council, all of which are made a part of this instrument as fully and completely as if set out in full herein.

NOW THEREFORE, if the said Contractor shall comply with the provisions of Paragraph 11.5.1 of the General Conditions, and correct work not in accordance with the Contract documents discovered within the established one-year period, then this obligation shall become null and void, and shall be of no further force and effect; otherwise, the same is to remain in full force and effect.

Notices required or permitted hereunder shall be in writing and shall be deemed delivered when actually received or, if earlier, on the third day following deposit in a United States Postal Service post office or receptacle, with proper postage affixed (certified mail, return receipt requested), addressed to the respective other party at the address prescribed in the Contract documents, or at such other address as the receiving party may hereafter prescribe by written notice to the sending party.

IN WITNESS THEREOF, the said Contractor and Surety have signed and sealed this instrument on the respective dates written below their signatures and have attached current Power of Attorney.

ATTEST, SEAL: (if a corporation)

WITNESS: (if not a corporation)

Name of Contractor

By: _____
Name:
Title:

By: _____
Name:
Title:
Date:

ATTEST/SURETY WITNESS:

Full Name of Surety

(SEAL)

Address of Surety for Notice

Telephone Number of Surety

By: _____
Name:
Title:
Date:

By: _____
Name:
Title: Attorney-in-Fact
Date:

This Ordinance or Contract has been reviewed as to form by the undersigned legal assistant and have been found to meet established Legal Department criteria. The Legal Department has not reviewed the content of these documents.

Legal Assistant

Date

PERFORMANCE BOND

THAT WE, _____, as Principal, (the "Contractor"), and the other subscriber hereto, _____, as Surety, do hereby acknowledge ourselves to be held and firmly bound to the City of Houston (the "City"), a municipal corporation, in the penal sum of \$_____ for the payment of which sum, well and truly to be made to the City, its successors and assigns, Contractor and Surety do bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT:

WHEREAS, the Contractor has on or about this day executed a Contract in writing with the City for _____

_____ all of such work to be done as set out in full in said Contract documents therein referred to and adopted by the City Council, all of which are made a part of this instrument as fully and completely as if set out in full herein.

NOW THEREFORE, if the said Contractor shall faithfully and strictly perform the Contract in all its terms, provisions, and stipulations in accordance with its true meaning and effect, and in accordance with the Contract documents referred to therein and shall comply strictly with each and every provision of the Contract and with this Bond, then this obligation shall become null and void and shall have no further force and effect; otherwise the same is to remain in full force and effect. Should the Contractor fail to faithfully and strictly perform the Contract in all its terms, including but not limited to the indemnifications thereunder, the Surety shall be liable for all damages, losses, expenses and liabilities that the City may suffer in consequence thereof, as more fully set forth herein.

It is further understood and agreed that the Surety does hereby relieve the City or its representatives from the exercise of any diligence whatever in securing compliance on the part of the Contractor with the terms of the Contract, and the Surety agrees that it shall be bound to take notice of and shall be held to have knowledge of all acts or omissions of the Contractor in all matters pertaining to the Contract. The Surety understands and agrees that the provision in the Contract that the City will retain certain amounts due the Contractor until the expiration of 30 days from the acceptance of the Work is intended for the City's benefit, and the City will have the right to pay or withhold such retained amounts or any other amount owing under the Contract without changing or affecting the liability of the Surety hereon in any degree.

It is further expressly agreed by Surety that the City or its representatives are at liberty at any time, without notice to the Surety, to make any change in the Contract documents and in the Work to be done hereunder, as provided in the Contract, and in the terms and conditions thereof, or to make any change in, addition to, or deduction from the Work to be done hereunder; and that such changes, if made, shall not in any way vitiate the obligation in this Bond and undertaking or release the Surety there from.

It is further expressly agreed and understood that the Contractor and Surety will fully indemnify and save harmless the City from any liability, loss, cost, expense, or damage arising

out of Contractor's performance of the Contract.

If the City gives Surety notice of Contractor's default, Surety shall, within 45 days, take one of the following actions:

1. Arrange for Contractor, with consent of the City, to perform and complete the Contract; or
2. Take over and assume completion of the Contract itself, through its agents or through independent contractors, and become entitled to the payment of the balance of the Contract Price.

If the Surety fails to take either of the actions set out above, it shall be deemed to have waived its right to perform and complete the Contract and receive payment of the balance of the Contract Price and the City shall be entitled to enforce any remedies available at law, including but not limited to completing the Contract itself and recovering any cost in excess of the Original Contract Price from the Surety.

This Bond and all obligations created hereunder shall be performable in Harris County, Texas. This Bond is given in compliance with the provisions of Chapter 2253, Texas Government Code, as amended, which is incorporated herein by this reference.

Notices required or permitted hereunder shall be in writing and shall be deemed delivered when actually received or, if earlier, on the third day following deposit in a United States Postal Service post office or receptacle, with proper postage affixed (certified mail, return receipt requested), addressed to the respective other Party at the address prescribed in the Contract documents, or at such other address as the receiving party may hereafter prescribe by written notice to the sending party.

EXECUTED in multiple originals this _____ day of _____, 20_____.

ATTEST/SEAL: (if a corporation)
WITNESS: (if not corporation)

(Name of Principal)

(Address of Principal)

By: _____
Name:
Title:
Date:

By: _____
Name:
Title:
Date:

ATTEST/SEAL
SURETY WITNESS:

(Name of Surety)

(Address of Surety)

By: _____
Name:
Title:
Date:

By: _____
Name:
Title:
Date:

REVIEWED:

This Bond has been reviewed as to form by the undersigned Paralegal and has been found to meet established Legal Department criteria.

Date

Paralegal

STATUTORY PAYMENT BOND

THAT WE, _____, as Principal, hereinafter called Contractor and the other subscriber hereto, _____, as Surety, do hereby acknowledge ourselves to be held and firmly bound unto the City of Houston, a municipal corporation, in the sum of \$_____ for the payment of which sum, well and truly to be made to the City of Houston, and its successors, the said Contractor and Surety do bind themselves, their heirs, executors, administrators, successors, jointly and severally.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT:

WHEREAS, the Contractor has on or about this day executed a contract in writing with the City of Houston for _____, _____, all of such work to be done as set out in full in said Contract documents therein referred to and adopted by the City Council, all of which are made a part of this instrument as fully and completely as if set out in full herein;

NOW, THEREFORE, if the said Contractor shall pay all claimants supplying labor and materials to him or a Subcontractor in the prosecution of the Work provided for in the Contract, then, this obligation shall be void; otherwise the same is to remain in full force and effect;

PROVIDED HOWEVER, that this Bond is executed pursuant to the provisions of Chapter 2253, Texas Government Code, as amended, and all liabilities on this Bond shall be determined in accordance with the provisions of said Article to the same extent as if it were copied at length herein.

IN WITNESS THEREOF, the said Contractor and Surety have signed and sealed this instrument on the respective dates written below their signatures and have attached current Power of Attorney.

ATTEST, SEAL: (if a corporation)
WITNESS: (if not a corporation)

Name of Contractor

By: _____
Name:
Title:

By: _____
Name:
Title:
Date:

ATTEST/SURETY WITNESS:
(SEAL)

Full Name of Surety

Address of Surety for Notice

Telephone Number of Surety

By: _____
Name:
Title:
Date:

By: _____
Name:
Title: Attorney-in-Fact
Date:

This Ordinance or Contract has been reviewed as to form by the undersigned legal assistant and have been found to meet established Legal Department criteria. The Legal Department has not reviewed the content of these documents.

Legal Assistant

Date