

CITY OF STAUNTON
DEPARTMENT OF FINANCE

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WWW.STAUNTON.VA.US



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540-332-3819

INVITATION TO BID

June 1, 2017

BID TITLE: WTP BOILER REMOVAL & REPLACEMENT

BID #F00117

BID OPENING DATE: Thursday, June 29, 2017, 2:00 P.M.

BID/PERFORMANCE/PAYMENT BONDS REQUIRED: No

The City of Staunton is seeking written sealed bids from qualified and properly licensed contractors to provide all labor, materials, insurance and supervision to remove an existing Burnham, Natural Gas-Fired Boiler Model K-5011B, and replace it with a Harsco Industrial, Patterson & Kelley, P-K Mach/Nuro Gas-Fired Boiler, Model C1050. **NO EXCEPTIONS.** All work will be done at the City of Staunton, Water Treatment Plant, 1907 Craigmont Road, Staunton Virginia. All work shall be in accordance with the specifications contained herein. Any questions regarding the specifications for this bid should be directed to Timothy C. Powell, Facility Services/Refuse Superintendent, at (540) 332-3882, powelltc@ci.staunton.va.us.

Please submit bid for lowest price and best delivery for items and services requested. Advise what discount, if any, will be allowed for payment within a specified time. Terms and delivery date must be specified.

Right is reserved to accept or reject bids on each item separately or as a whole, to reject any or all bids, to waive informalities or irregularities, to negotiate contract terms and options with the successful low bidder, and to contract for the bid to other than the lowest bidder in the best interest of the City of Staunton to the extent allowable by law.

The City of Staunton does not discriminate against faith-based organizations in accordance with the Code of Virginia, § 2.2-4343.1 or against a Bidder or Offeror because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by state law relating to discrimination in employment.

All bids must be submitted in a sealed envelope plainly marked "**BID #F00117 – WTP BOILER REMOVAL AND REPLACEMENT**", with the name and address of the bidder in the upper left hand corner and accompanied by complete specifications for the items offered. **E-Mail and facsimile responses are not acceptable.** No responsibility will attach the Owner or any official or employee thereof for the pre-opening of, post-opening of, or the failure to open a proposal not properly addressed and identified.

BIDS RECEIVED AFTER THE DATE AND TIME SPECIFIED WILL BE REJECTED
BIDS MUST BE SEALED, MARKED, AND DELIVERED TO:

Mail To:
City of Staunton
Bonnie S. Stephenson
Purchasing & Risk Manager
P.O. Box 58
Staunton, VA 24402-0058

Overnight To:
City of Staunton
Bonnie S. Stephenson
Purchasing & Risk Manager
116 W Beverley St., 3rd Floor
Staunton, VA 24401

Phone: (540) 332-3819

**CITY OF STAUNTON
PURCHASING DEPARTMENT
GENERAL TERMS, CONDITIONS, AND INSTRUCTIONS**

1. **SUBMISSION AND RECEIPT OF BIDS:**

- (A) Bids, to receive consideration, must be received prior to the specified time and date of opening as designated in the invitation. E-mail and facsimile submittals are not acceptable.
- (B) Unless otherwise specified, bidders must use the bid form furnished by the City. Failure to do so may cause bid to be rejected. Removal of any part of the bid form may invalidate the bid.
- (C) Bids having any erasures, corrections, or typewriter opaquing fluid are not acceptable and will result in rejection of the bid. Prior to submission or opening, errors may be crossed out, corrections entered in ink and initialed in ink by the person signing the bid. No bid shall be altered or amended after the specified time for opening.
- (D) All bids shall be either typewritten or filled in with ink in order to be considered. Also, all bids must be signed in ink in order to be considered.
- (E) Bids concerning separate bid invitations must not be combined on the same form or placed in the same envelope. Bids submitted in violation of this provision may not be considered.
- (F) When specified, each bid shall be accompanied by a bid bond with surety satisfactory to the City or a cashier's or certified check, made payable to the Treasurer, City of Staunton, in an amount equal to 5 per cent of the total bid price. In the event of default by the bidder the 5 per cent deposit shall be and represent liquidated damages to the City.

2. **ANNUAL CONTRACT USAGE REQUIREMENTS:** Whenever a bid is sought seeking a source of supply for an annual contract for products or services, the quantities or usage shown are estimates only. No guarantee or warranty is given or implied by the City of Staunton as to the total amount that may or may not be purchased from any resulting contracts.

3. **PRICING:**

- (A) Bidder warrants by virtue of bidding that prices, terms, and conditions quoted in his bid will be firm for acceptance for a period of sixty (60) days from the date of bid opening unless otherwise stated by the City or bidder.
- (B) Prices should be stated in units of quantity as specified in the bid form. In case of error in extension of prices in the bid, the unit price shall govern.
- (C) Bids based on a firm price or those including a "Downward Escalator" clause for an annual contract period may be given preference over lower ones bearing an "Escalator" clause for an annual contract period.
- (D) When an annual contract is not requested by the City, and the bid is for products or services to be delivered on a one time only or staggered basis, only firm pricing shall be given consideration. General terms such as "Price in effect at time of delivery" shall be cause for rejection of bid.

4. **PERFORMANCE BOND:** When requested in the bid, the City shall require the successful bidder to furnish a performance bond and labor and material payment bond with surety satisfactory to the City in the amount of contract price at the time of or prior to execution of the contract. If no bond is furnished by the successful bidder, the City reserves the right to award the contract to the next lowest responsible bidder with the next lowest responsive bid.

5. **DELIVERY POINT:** All items shall be delivered F.O.B. destination, and delivery costs and charges included in the bid price. Failure to do so may be cause for rejection of bid. The bidder shall assume all liability and responsibility for the delivery of merchandise in good condition to the specified delivery location(s).

6. **CASH DISCOUNTS:** Cash discounts will be considered in determining the award.

7. **BRAND NAMES:** Unless otherwise provided in the invitation for bid, the name of a certain brand, make, or manufacturer does not restrict bidders to the specific brand, make, or manufacture mentioned; it conveys the general style, type, character, and quality of the equipment desired. The City shall determine in its sole discretion equipment bid to be equal of that specified, considering quality, workmanship, economy of operation, and suitability for the purpose intended, shall be accepted.

8. **SPECIFICATIONS:** The bidders must also indicate any variances from our specification and/or conditions, NO MATTER HOW SLIGHT. If variations are not stated in the bid, it will be assumed that the product or service fully complies with our specifications. The Purchasing Department is not responsible for locating or securing any information which is not included in the bid. Accordingly, to insure that sufficient information is available, the bidder must furnish as part of his bid all descriptive material, (i.e., Catalog Cuts, illustrations, drawings, specifications, or other information) necessary for the Purchasing Department to determine whether the goods or services offered meet the salient characteristic requirements of the bid.

9. **LATEST MODEL/QUALITY:** Bidder shall bid on the latest model, design, etc. of this type of equipment by the manufacturer of which he represents. Equipment shall be new and unused.

10. **NOTICE OF AWARD:** Notice of award will be posted at <http://www.staunton.va.us/solicitation-results>.

**CITY OF STAUNTON
BID FORM**

**P-K Mach/Nuro Gas Fired Boiler, Model C1050,
NO EXCEPTIONS, Delivered and Installed:**

\$ _____

Removal and Disposition of Existing Boiler:

\$ _____

TOTAL:

\$ _____

Option #1, Install Shot Feeder Chill Water System

\$ _____

Guaranteed Installation Date: _____

Warranty Provided: _____

SEE ATTACHED SPECIFICATIONS

BID

To Purchasing Department:

In compliance with the bid information, the undersigned offers and agrees, if this offer is accepted within _____ calendar days (30 calendar days unless a different period is inserted by the purchaser) from the bid open date specified above, to furnish any or all items upon which prices are offered, at the price set opposite each item, delivered at the designated point(s), within the time specified.

FOB: Staunton

TERMS: _____

COMPANY NAME _____

BY: _____

PRINTED NAME

SIGNATURE

STREET ADDRESS _____

CITY AND STATE _____

STATE CONTRACTOR LICENSE NO/TYPE _____

SCC NUMBER. _____

E-MAIL..... _____

PHONE: _____ FAX: _____

**WATER TREATMENT PLANT
BOILER REMOVAL AND REPLACEMENT
SPECIFICATIONS**

The City of Staunton is requesting sealed bids from qualified and properly licensed contractors to supply all labor, materials, equipment, insurance and supervision to remove an existing Burnham Natural Gas-Fired Boiler Model K-5011B, and replace with a Harsco Industrial, Patterson & Kelley, P-K Mach/Nuro Gas Fired Boiler, Model C1050. NO EXCEPTIONS. Installation shall be turn-key and bids shall include all necessary labor, parts, equipment and controls for full-system operation. Features for the equipment to be installed are included at end of this bid. Installation shall be in accordance with the manufacturer's specifications and all other specifications contained herein.

All interested contractors are required to visit the site at 1907 Craigmont Road, Staunton, Virginia prior to submitting quotes. **Site visits may be arranged by contacting Tim Powell at 540-332-3882 or by e-mail at powelltc@ci.staunton.va.us. All site visits must be completed by Friday, June 16, 2017.** At the time quotes are received, each contractor will be presumed to have inspected the job site and satisfied himself as to the nature and location of the work, the character of the equipment and facilities needed preliminary to and during the prosecution of the work, the general conditions and all other matters which in any way affect the work under this contract.

No verbal agreement or conversation with any officer, agent, or employee of the City either before or after the execution of this contract shall affect or modify any of the terms or obligations herein contained.

NOTE: New boiler shall be completely installed and fully operational by October 16, 2017.

TECHNICAL SPECIFICATIONS:

1. New PK Boiler shall be of High Efficiency design with an aluminum heat exchanger, full modulation burner, 5:1 turndown and NURO control. Boiler shall also include Relief Valve, Condensate Neutralization Kit, Low Water Cut-Off and Strainer. See standard PK-Mach Series Boiler Features at the end of this Invitation to Bid. Installation shall comply with the manufacturer's specifications and must meet all applicable local, state and federal codes.
2. Contractor must list guaranteed installation completion date on the bid sheet.
3. Remove and discard the existing Burnham Natural Gas-Fired Boiler Model K-5011B by best means possible.
4. Replace existing circulator pump and motor with new units. Existing pump and motor information listed below.
 - a. Motor, Baldor Electric, 2 HP, 1725 RPM, 208-230 vac, 6.8-6.4 amps.
 - b. Pump, Bell & Gossett, Model 1531 – S/N 187035 - 2 HP - 1800 RPM.

5. Contractor shall furnish all necessary materials needed for complete installation and shall be responsible for ensuring that such materials and associated installation methods meet all applicable local, state, and federal codes.
6. New Exhaust Venting and Combustion Air-Intake Piping shall be through-wall configuration and shall utilize the existing louvers located beside the boiler. All louver openings not utilized by the new exhaust and air intake piping shall be closed off using aluminum plates as to current building and mechanical codes.
7. Remove and replace existing Chemical Shot Feeder and replace with Vector Industries, Inc, Model FA700, 200 psi, 2 gallon feeder or equal.
8. **Option #1:** Install Chemical Shot Feeder on Chill Water System. New shot feeder shall be Vector Industries, Inc, Model FA700, 200 psi, 2 gallon feeder or equal.

Note: The City of Staunton will be responsible for disconnecting and reconnecting the existing TAC system controls as necessary for removal and replacement of the new boiler system.

General Conditions:

1. Contractor shall provide, with their bid submission, a listing of previous clients that may be contacted as a reference. The contractor must have a minimum experience of three (3) projects of similar size and complexity that have been completed within the last two (2) years. Include customer name, project description and telephone number.
2. Contractor shall provide all warranties including equipment, material defects, appearance, workmanship and performance. Warranties must be of industry standards but not less than one (1) year and will not commence until the City has given the successful bidder written acceptance of the product and its installation.
3. Following installation of the new boiler and at no additional cost to the City, the contractor shall provide on-site training for City staff and maintenance contractor in the care, cleaning and maintenance of the new system.
4. All paperwork, including but not limited to, brochures, equipment specifications, and installation and maintenance manuals shall be provided to the City upon completion and before final payment is made.
5. The contractor shall specify environmental requirements, if any, which the City will need to meet prior to starting the work, e.g., power, water or space needs etc.
6. During the course of the work, the contractor shall cause as little inconvenience as possible to the public, City employees or scheduled activities within the building, and will maintain the work site free from any conditions that may result in danger or nuisance to the public, City employees or their daily work schedule.

7. All equipment including, but not limited scaffolding, lifts and ladders, etc., shall be provided by the successful contractor, at their cost, and must meet all applicable OSHA, local, state and federal safety codes.
8. The successful contractor must obtain, at his or her own cost, a City of Staunton business license and any required City Permits before beginning work. License and Permits may be obtained at the City Hall, 116 West Beverley Street, Staunton.
9. Appropriate City personnel will make payment for all completed work only after final approval and acceptance of the work completed.
10. A tax-exempt certificate will be provided to the successful contractor on request.
11. Insurance - Contractor agrees to provide the City of Staunton a copy of their General Liability, Vehicle Liability, and Worker's Compensation Insurance prior to beginning work. Insurance shall be in amounts not less than \$1,000,000, \$500,000, and \$500,000 respectively or such other insurance as is satisfactory and may be approved by the City. Insurance shall be written by companies licensed to do business in the Commonwealth of Virginia and **shall list the City as an additional insured.**
12. Hold Harmless: The Contractor shall indemnify, defend and hold harmless the City, its members of Council, officers, directors, agent and employees, against any and all claims, liabilities, losses, damages, costs and expenses (including reasonable attorney fees) arising out of, or resulting from any and all injuries to persons or damage to property arising out of services performed hereunder or by reason of the intentional or negligence acts or omissions of the Contractor, its employees, agents or sub-consultants, including any independent contractors. The provisions of this section of the Agreement shall survive the completion, termination or expiration of the Agreement.
13. Drug Free Workplace: During the performance of this contract, the contractor agrees to (i) provide a drug-free workplace for the contractor's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; (iii) state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000.00, so that the provisions will be binding upon each subcontractor or vendor.
14. Non-Discrimination
 1. During the performance of this contract, the contractor agrees as follows:
 - a. The contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor agrees to post in conspicuous

- places, available to employees and the applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
 - b. The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer.
 - c. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
 2. The contractor will include the provisions of the foregoing paragraphs a, b and c in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.
15. Immigration Reform and Control Act Of 1986 – During the performance of this contract, contractor agrees that they will not, and shall not knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986. (per 2.2-4311.1)
 16. Forum Selection: Any action, proceeding, or claim in any way related to this agreement or the relationship between the parties shall be filed and maintained solely in the General District Court or the Circuit Court of the City of Staunton, Virginia.
 17. Prompt Payment Act: Any contract awarded as a result of this Bid shall incorporate the terms and conditions of Article 4 of the Virginia Public Procurement Act with respect to Prompt Payment.
 18. Negotiation With Successful Bidder: The City reserves the right to negotiate contract terms with the successful contractor for items/services other than those specifically stated in this Invitation to Bid in the best interest of the City and agreed to by the contractor in accordance with section 2.2-4318 of the Code of Virginia. Additional work of reasonable scale shall be priced consistent with proposal to allow for additions and future expansions.
 19. Cooperative Procurement: This procurement is being conducted on behalf of other public bodies, in accordance with § 2.2-4304 (A) of the Code of Virginia. If authorized by the bidder, the resultant contract may be extended to any public body in the Commonwealth of Virginia in accordance with contract terms.
 20. Pursuant to Code of Virginia, §2.2-4311.2 subsection B, a bidder or offeror organized or authorized to transact business in the Commonwealth pursuant to Title 13.1 or Title 50 is required to include in its bid or proposal the identification number issued to it by the State Corporation Commission (SCC). Any bidder or offeror that is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 or as otherwise required by law is required to include in its bid or proposal a statement describing why the bidder or offeror is not required to be so authorized.

PK-MACH SERIES BOILER FEATURES

PK's Mach series boiler is a high efficiency, condensing boiler with an aluminum heat exchanger, full-modulation burner, 5:1 turndown and NURO® control. It is available in either Natural Gas, Propane, or Dual Fuel option.

Shipping weights are as follows: 700 lbs. (C750), 735 lbs. (C900), 775 lbs. (C1050)

Ratings are as follows: CSA Efficiency 95% (C750), 94% (C900, C1050);
AHRI Efficiency 93.9%.

Standard Features List

- Pressure-temperature gauge
- Low water cutoff, probe type w/ manual reset
- Variable speed blower
- High back pressure switch - C2500, C3000, C4000
- Air pressure switch
- Full modulation burner with 5:1 turndown
- Removable, powder coated casing panels
- Sealed combustion ready
- Victaulic fittings on supply & return
- Condensate trap
- Boiler drain valve
- Blocked flue switch
- 1/4 turn latches
- Hydronic ΔT monitoring
- Venting - Category II (C750-C3000 only - must purchase optional 120V Combustion air damper)
Category IV (all models)
- 200° High limit with manual reset
- Moving wheels and maneuvering bar (C1500H, C2000H, C2500, C3000, C4000)

Gas train, including:

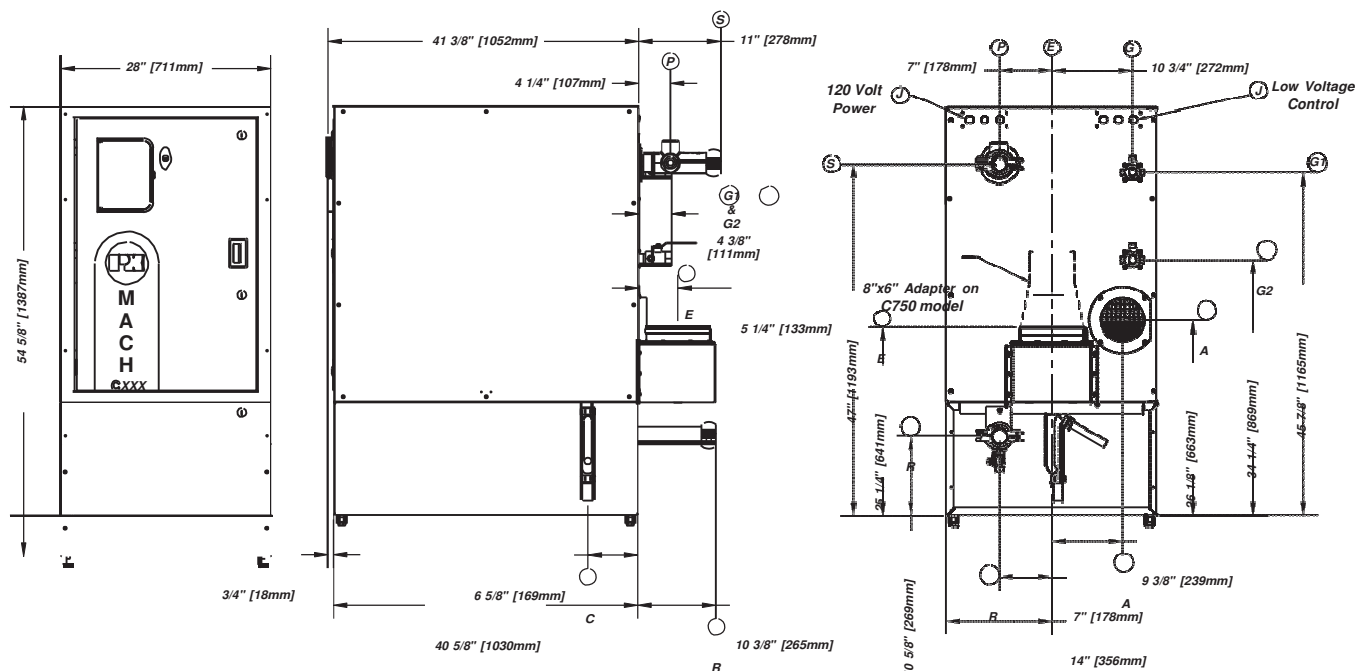
- Integrated dual main gas valves, modulating valve and regulator for 14"wc or less
- High gas pressure switch, manual reset
- Low gas pressure switch, manual reset
- Main inlet gas cock
- Downstream CSD1 gas cock
- Direct spark ignition
- Low Nox

NURO™ Touch-Screen Control System including:

- Interactive 7" touch screen interface or USB mouse/keyboard
- Set-Up Wizard to walk you through the operational set up parameters
- 4 digital inputs
- Flame safeguard device
- Lead/lag cascade control w/outdoor reset
- Custom configurable allowing optimal operating efficiency
- Software upgrade via USB
- MODBUS RS-485 communication protocol
- Text based display

Rep Name Shultz & James, Inc.
 Phone Number 804-512-2202
 Email brian.nicely@sjincva.com
 Date 04 / 20 / 2017

P-K MACH® Models C-750, C-900, & C-1050 Natural Gas, Liquid Propane, or Dual Fuel with NURO® Control



This MACH Boiler requires Category IV venting (condensing–positive pressure) or Category II venting* (condensing–negative pressure) as defined in ANSI Z223.1/NFPA 54/CSA –B.149 Latest Edition

*Category II Venting must include optional combustion air damper

BOILER CONNECTIONS	
(A) Combustion Air Inlet	6" dia stub
(C) Condensate Drain	3/4" hose
(E) Exhaust Vent	C-750 6" C-900 & C-1050 8"
(G1) Natural Gas Connection	1" NPT–F
(G2) Liquid Propane Gas Connection	1" NPT–F
(J) Wiring Junction Boxes	inside cabinet
(P) Pressure Relief Valve	see list for selection
(R) Boiler Water Return, Victaulic® clamp	2" pipe, grooved
(S) Boiler Water Supply, Victaulic® clamp	2" pipe, grooved

Victaulic is a registered trademark of Victaulic Company, Easton, PA, USA

BOILER CONTROLS: ASME CSD–1 is standard. Complies with GE GAP (IRI) guidelines GAP.4.1.0 and GAP.4.1.3. Complies with FM Global 6–4 Section 1.0	
Main Gas Train with Dual Shut–Off	
Integrated Boiler Control, NURO® Series	
Operating Thermostat, 70°–195°F (21°–91°C)	
High Limit Thermostat, Manual Reset, 100–197°F (38°–92°C)	
High Exhaust Pressure Switch	
LWCO, Probe Type, Manual Reset	
Combustion Air Proving Switch, Differential Pressure Type	
Combustion Blower, Variable Speed 300 Watt	

A.S.M.E. Section IV Design Data	C–750	C–900	C–1050
Max Pressure	80 PSIG		
Max Allowable Temperature	200°F		
Max Operating Temperature	194°F		
Heated Wet Surface Area:	18.35 ft²	22.02 ft²	25.69 ft²
Flow rate @ 20°F ΔT	72 GPM	86 GPM	100 GPM
Flow rate @ 40°F ΔT	36 GPM	43 GPM	50 GPM

Note: Dual Fuel models are not intended to run both fuels simultaneously

MODEL SELECTION	☐ C–750	☐ C–900	☐ C–1050
	☐ Dual Fuel ☐ NG ☐ LP	☐ Dual Fuel ☐ NG ☐ LP	☐ Dual Fuel ☐ NG ☐ LP
Min Inlet Gas Pressure	3.5"w.c. 7.0"w.c.	3.5"w.c. 7.0"w.c.	3.5"w.c. 7.0"w.c.
Max Inlet Gas Pressure	14.0"w.c.		
Input, BTU/hr	750,000	900,000	1,050,000
Output, BTU/hr	712,500	846,000	987,000
Boiler HP	21.3	25.3	29.5
Operating Weight	695 lbs.	735 lbs.	780 lbs.
Water Content	5.9 gallons	6.6 gallons	7.3 gallons
Shipping Dimensions	61"x36"x62" (LxWxH)		
Estimated Shipping Weight	735 lbs.	790 lbs.	820 lbs.
Power Supply	120V 1ph 60Hz		
Operating Current	< 6 Amps		
Recommended Minimum Circuit Capacity	10 Amps		

Pressure Relief Valve/Press–Temp Gauge	
Shipped Loose for Field Installation	
☐ 30 PSIG 1"x 1"	0–100psi/30–240°F
☐ 50 PSIG 3/4"x 1"	0–100psi/30–240°F
☐ 60 PSIG 3/4"x 3/4"	0–100psi/30–240°F
☐ 75 PSIG 3/4"x 1"	0–240psi/30–240°F
☐ 80 PSIG 3/4"x 1"	0–240psi/30–240°F

Recommended Clearance for Service Access			
Front – 30"	Rear – 24"	Top – 24"	Side – 24"