

BID TABULATION - HOT WATER HEATERS

BID TABULATION IFB - HOT WATER HEATERS BID OPENING DATE 11-17-15	CRESCENT PLUMBING SUPPLY	BUTLER SUPPLY, INC.	ATLAS SUPPLY CO.	DEKA SERVICE
	640 ROSEDALE AVE. ST LOUIS MO 63112	4106 HUNT RD. FARMINGTON MO 63640	3820 MARTIN LUTHER KING DR ST LOUIS MO 63113	1802 LARKIN WILLIAMS RD. FENTON MO 63026
(1) COMMERCIAL NATURAL GAS HOT WATER HEATER - 85 GALLON				
UNIT ONLY BID				
BRAND & MODEL:	AO SMITH BTR-400-A	BRADFORD WHITE #D-80L-3993NA	RUUD G85-400A	RHEEM G85-400A - 85 GALLON GAS WATER HEATER
BID PRICE PER UNIT:	\$9,101.74	\$8,648.61 PLUS \$75.00 SHIPPING	\$8,425.00	\$9,647.00
UNIT WITH INSTALLATION				
BRAND & MODEL:	NO BID	NO BID	NO BID	RHEEM G85-400A - 85 GALLON GAS WATER HEATER
BID PRICE PER UNIT:				\$9,110.00 UNIT / \$1,034.00 FOR PERMITS, PIPING & FLUE MATERIALS
INSTALLATION HOURLY RATE:				\$80.00
(2) HEAVY DUTY ELECTRIC HOT WATER HEATER - 80 GALLON				
UNIT ONLY BID				
BRAND & MODEL:	12 KW OPTION - AO SMITH DSE-80-12	BRADFORD WHITE #M-11-80A-54-3CF	LOCHINVAR CHK0980A	AO SMITH DRE80 - 80 GALLON ELECTRIC WATER HEATER
BID PRICE PER UNIT:	\$4,522.00	\$6,484.89 PLUS \$75.00 SHIPPING	\$6,360.00	\$4,368.00
BRAND & MODEL:	18 KW OPTION - AO SMITH DSE-80-18		LOCHINVAR CHK18080A	
BID PRICE PER UNIT:	\$4,629.24		\$6,600.00	
UNIT WITH INSTALLATION				
BRAND & MODEL:	NO BID	NO BID	NO BID	AO SMITH DRE80 - 80 GALLON ELECTRIC WATER HEATER
BID PRICE PER UNIT:				\$4,380.00 UNIT / \$1,029.00 FOR PERMITS & PIPING MATERIALS
INSTALLATION HOURLY RATE:				\$80.00
(3) HEAVY DUTY ELECTRIC HOT WATER HEATER - 120 GALLON				
UNIT ONLY BID				
BRAND & MODEL:	AO SMITH DSE-120-36	BRADFORD WHITE #M-11-120A-54-3CF/120	LOCHINVAR CHX36120A	AO SMITH DRE120 - 120 GALLON ELECTRIC WATER HEATER
BID PRICE PER UNIT:	\$6,798.62	\$6,988.86 PLUS \$75.00 SHIPPING	\$9,140.00	\$5,049.00
UNIT WITH INSTALLATION				
BRAND & MODEL:	NO BID	NO BID	NO BID	AO SMITH DRE120 - 120 GALLON ELECTRIC WATER HEATER
BID PRICE PER UNIT:				\$4,769.00 UNIT / \$1,029.00 FOR PERMITS & PIPING MATERIALS
INSTALLATION HOURLY RATE:				\$80.00
REQUIRED DOCUMENTS				

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NOTARIZED WORK AFFIDAVIT COMPLETED	Y	Y	Y	Y
E-VERIFICATION DOCUMENTATION (Y/N):	Y	Y	N	Y
COPY OF INSURANCE PROVIDED	Y	Y	Y	Y
TAX RECEIPTS OR NOTARIZED LETTER STATING NO REAL OR PERSONAL PROPERTY OWNED IN JEFFERSON COUNTY	Y	NO- PROVIDED CERTIFICATE OF NO TAX DUE FROM STATE OF MO DOR	Y	Y
COOPERATIVE BID FORM (Y/N)	Y	Y	Y	Y
COOPERATIVE CONTACT INFO:	Y	Y	Y	Y
COMPANY INFORMATION AND SIGNATURE	Y	Y	N	Y
BID DEPOSIT REQUIRED	N/A	N/A	N/A	N/A
COMMENTS:	SEE ATTACHED	SEE ATTACHED	MISSING PG 10 SEE ATTACHED	PG 9 NOT INITIALED SEE ATTACHED



JEFFERSON COUNTY
DEPARTMENT OF ADMINISTRATIVE SERVICES
 729 MAPLE ST / PO BOX 100
 HILLSBORO MO 63050
 WWW.JEFFCOMO.ORG

Invitation for Bid: HOT WATER HEATERS

Date Issued: 10-14-15

BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, NOVEMBER 17, 2015, AT 2:00 P.M. LOCAL TIME.

Specification

Contact:

KRISTY MOSS
 Department of Public Works
 636-797-5569
 kmoss@jeffcomo.org

Contract

Contact:

VICKIE PRATT
 Department of Administrative Services
 636-797-5380

**Mail (3) Three
 Complete Copies
 With Vendor And
 Bid Information As
 Shown In Sample:**

SAMPLE ENVELOPE

<i>VENDOR NAME</i>	
<i>VENDOR ADDRESS</i>	
<i>CONTACT NUMBER</i>	DEPARTMENT OF THE COUNTY CLERK
	JEFFERSON COUNTY MISSOURI
	729 MAPLE ST / PO BOX 100
	HILLSBORO MO 63050-0100
<i>SEALED BID: (BID NAME)</i>	

Contract Term:

UPON APPROVAL OF THE COUNTY COUNCIL AND COUNTY EXECUTIVE

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for one additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

Vendor Information:

<u>Crescent Plumbing Supply</u>	<u>Joseph Rotzkoff</u>
Company Name	Authorized Agent (Print)
<u>640 Rosedale Ave.</u>	<u>Joseph Rotzkoff</u>
Address	Signature
<u>St. Louis, MO 63112</u>	<u>VP</u>
City/State/Zip Code	Title
<u>314-727-4200</u>	<u>10/29/15</u>
Telephone #	Date
<u>jdrc@CrescentSupply.com</u>	<u>43-0624840</u>
E-mail	Tax ID #
	<u>314-727-2800</u>
	Fax #

Bid Pricing:

(1) Commercial Natural Gas hot water heater- 85 Gal

UNIT ONLY BID:

Brand and Model: AO SMITH BTR-400-A
Bid Price for unit \$ 9101.74

UNIT WITH INSTALLATION:

Brand and Model: _____
Bid Price for unit \$ _____
Installation hourly rate: \$ _____

(2) Heavy Duty Electric Hot Water heater -80 Gal

UNIT ONLY BID:

Brand and Model: AO SMITH DSE-80-12
Bid Price for unit \$ 4522.00

UNIT WITH INSTALLATION:

Brand and Model: _____
Bid Price for unit \$ _____
Installation hourly rate: \$ _____

(3) Heavy Duty Electric Hot Water heater -120 Gal

UNIT ONLY BID:

Brand and Model: AO SMITH DSE-120-36
Bid Price for unit \$ 6798.62

UNIT WITH INSTALLATION:

Brand and Model: _____
Bid Price for unit \$ _____
Installation hourly rate: \$ _____

18 KW OPTION
AO SMITH
Brand and Model: DSE-80-18
Bid price for unit: \$ 4629.24



JEFFERSON COUNTY
DEPARTMENT OF ADMINISTRATIVE SERVICES
 729 MAPLE ST / PO BOX 100
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<i>VENDOR ADDRESS</i>	
<i>CONTACT NUMBER</i>	DEPARTMENT OF THE COUNTY CLERK
	JEFFERSON COUNTY MISSOURI
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**Vendor
 Information:**

<i>Butler Supply, Inc</i>	<i>Bill Berry</i>
Company Name	Authorized Agent (Print)
<i>4106 Hunt Rd.</i>	<i>Bill Berry</i>
Address	Signature
<i>Farmington, Mo. 63640</i>	<i>Salesman</i>
City/State/Zip Code	Title
<i>(573) 756-6492</i>	<i>11-16-15</i>
Telephone #	Date
<i>hberry@butlersupply.com</i>	<i>(573) 756-5208</i>
E-mail	Fax #

Bid Pricing:

(1) Commercial Natural Gas hot water heater- 85 Gal

UNIT ONLY BID:

Brand and Model: Bradford White # D-80L-3993NA

Bid Price for unit \$ 8,648.⁶¹ + 75.⁰⁰ shipping

UNIT WITH INSTALLATION:

Brand and Model: _____

Bid Price for unit \$ _____

Installation hourly rate: \$ _____

(2) Heavy Duty Electric Hot Water heater -80 Gal

UNIT ONLY BID:

Brand and Model: Bradford White # M-11-80A-54-3CF

Bid Price for unit \$ 6,484.⁸⁹ + 75.⁰⁰ shipping

UNIT WITH INSTALLATION:

Brand and Model: _____

Bid Price for unit \$ _____

Installation hourly rate: \$ _____

(3) Heavy Duty Electric Hot Water heater -120 Gal

UNIT ONLY BID:

Brand and Model: Bradford White # M-11-120A-54-3CF/120

Bid Price for unit \$ 6,988.⁸⁶ + 75.⁰⁰ shipping

UNIT WITH INSTALLATION:

Brand and Model: _____

Bid Price for unit \$ _____

Installation hourly rate: \$ _____

Commercial Flue Damper Electronic Ignition Gas Water Heater

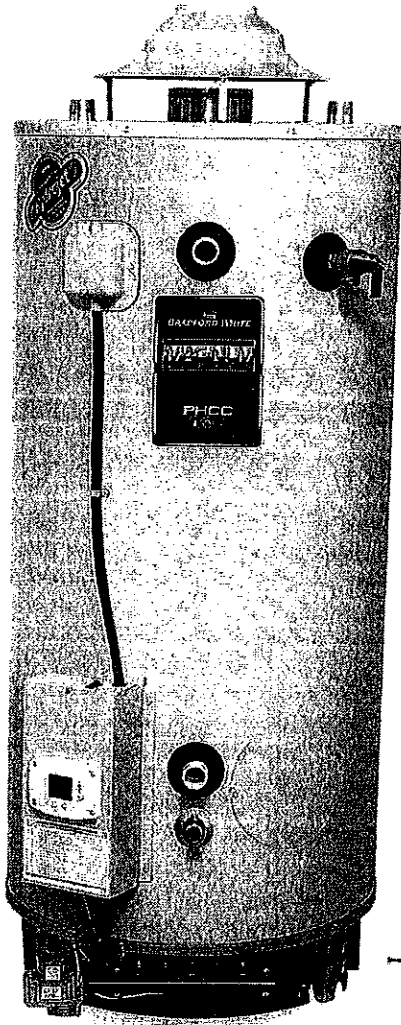


Photo is of
D-75T-125-3N

FEATURING:

THE BRADFORD WHITE
ICON HD
COMMERCIAL CONTROL SYSTEM



The Commercial Flue Damper Models feature:

- **ICON HD**—Intelligent proven design combines temperature control, diagnostic codes, and system ignition functions into a single control board with a digital LCD display. Control panel cover tilts down for ease of wiring and service.
- ■ **Operation Mode**—Two different digitally displayed operation modes have the capability of adjusting the temperature setting up to 180°F (82°C), and adjusting the degree setting (°F to °C, or °C to °F).
- ■ **Service Mode**—Eight different digitally displayed service modes can be easily cycled through by pressing the select button. There is the capability of adjusting the temperature setting up to 180°F (82°C), adjusting the degree setting (°F to °C, or °C to °F), locking the maximum temperature setting that can be adjusted in operation mode, displaying the average water temperature (if water heater has two sensors), displaying the upper temperature sensor, displaying the lower temperature sensor, displaying the flame current of the pilot flame, and displaying diagnostic codes.
- **Electronic Ignition**—High voltage, low current electricity is sent to the pilot electrode initiating a spark to ignite the pilot gas. This results in savings of pilot gas during stand-by periods because the pilot flame only operates when there's a call for heat.
- **Automatic Flue Damper**—Reduces stand-by loss, saving gas consumption and improving overall efficiency.
- **Factory Installed HydroJet® Sediment Reduction System**—Cold water inlet sediment reducing device helps prevent sediment build up in the tank.
- **Vitraglas® Lining**—Bradford White tanks are lined with an exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitraglas®) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- **Non-CFC Foam Insulation**—Covers the sides and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.
- **Water Connections**—Factory installed true dielectric waterway fittings extend water heater life and eases installation. Multiple water connection locations allow for greater installation flexibility.
- ■ **Hand Hole Cleanout**—Allows inspection of tank interior and facilitates the removal of sediment deposits.
- **E.C.O.**—An automatic re-set Energy Cut Off (E.C.O) shuts off all gas in event of an overheat condition. This automatically re-sets when operation conditions are back to normal.
- **Magnesium Anode Rods**—Provide added protection against corrosion for long trouble-free service.
- ■ **Sanitizing Capability**—Temperature setting up to 180°F (82°C).
- ■ **ASME Code Available on all Models Above 200,000 BTU/Hr.**
- **NSF Construction Available.**
- **Low NOx Construction Available.**
- **North Carolina Code Compliant.**
- **T&P Relief Valve**—Installed.
- **Brass Drain Valve**—Tamper proof.
- **Design certified by CSA International.**

3-Year Limited Tank Warranties / 1-Year Limited Warranty on Component Parts.

For more information on warranty, please visit www.bradfordwhite.com

For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,868; 7,834,976; 5,660,165; 5,954,492; 6,086,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,071,560; 7,992,526; 6,564,821; 5,442,178; 7,334,419; 7,866,168; 7,270,087; 7,007,748; 5,586,952; 6,142,216; 7,899,028; 5,341,770; 7,337,517; 7,865,211; 7,685,210; 7,063,132; 7,063,133; 7,559,283; 7,800,588; 5,943,984; 8,082,888; 5,988,117; 7,621,238; 7,650,859; 5,761,378; 7,409,825; 5,277,171; 8,146,772; 7,458,341; 2,282,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,846; 2,504,824; 2,108,188; 2,143,031; 2,409,271; 2,548,958; 2,112,615; 2,476,685; 2,239,007; 2,092,105; 2,107,012. Vitraglas® and HydroJet® are registered trademarks of Bradford White® Corporation.

Commercial Gas Water Heater

Electronics Division Model

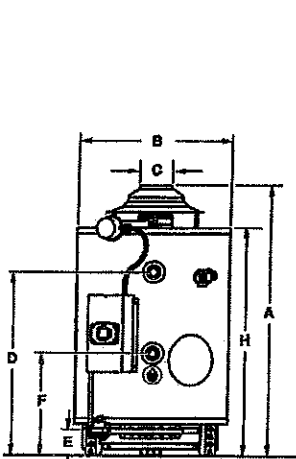
Model Number	Capacity		Nat. BTU/Hr. Input	LP BTU/Hr. Input	LPH Recovery at Degree Rise*			A Top Vent Height In.	B Jacket Dia. In.	C Vent Dia. In.	D Front Hot Water Conn. In.	E Floor to Gas Conn. In.	F Front Cold Water Conn. In.	H Floor to Top of Heater In.	J Floor to Top Water Conn. In.	Water Conn. In.	Gas Conn. Dia.	Relief Valve Open. In.	Approx. Shipping Weight (lbs.)	
	U.S. Gal.	Imp. Gal.			40°F	100°F	140°F												Std.	ASME
D-75T-125-3N	75	62	125,000	125,000	303	121	86	72 1/4	28 1/4	6	5 1/4	4 1/4	24	65	67 1/2	1 1/2 (top)	3/4	3/4	520	-
D-80T-180-3N	80	67	180,000	180,000	436	175	124	71 1/2	28 1/4	6	5 1/2	4 1/4	19 1/2	64 1/2	66 1/4	1 1/2 (top)	3/4	3/4	540	-
D-80T-250-3N(A)	80	67	250,000	235,000	606	242	173	71 1/2	28 1/4	6	5 1/2	4 1/4	19 1/2	64 1/2	66 1/4	1 1/2 (top)	3/4	1	540	590
D-100T-250-3N(A)	98	82	250,000	235,000	606	242	173	83 1/4	28 1/4	6	6 1/2	4 1/4	19 1/2	76 1/2	77 1/4	1 1/2 (top)	3/4	1	610	690
D-65T-370-3N(A)	65	54	370,000	370,000	897	359	256	73 1/4	28 1/4	8	5 1/4	10 1/2	29	64 1/4	-	1 1/2 (top)	3/4	1	665	720
D-80T-425-3N(A)	80	67	425,000	425,000	1030	412	284	62 1/4	28 1/4	10	6 1/2	10 1/2	29	75 1/2	-	1 1/2 (top)	3/4	1	760	800
D-100S-199-3N	100	83	199,999	199,999	485	194	139	76 1/4	28 1/4	6	6 1/2	4 1/4	20 1/4	67 1/4	70	1 1/2 (top)	3/4	3/4	667	-
D-100L-199-3N	100	83	199,999	199,999	485	194	139	75	30 1/4	6	5 1/2	4 1/4	23 1/2	64 1/4	67	1 1/2 (top)	3/4	3/4	725	-
D-100L-270-3N(A)**	100	83	270,000	270,000	655	262	187	75	30 1/4	6	5 1/2	4 1/4	23 1/2	64 1/4	67	1 1/2 (top)	3/4	1	725	765
D-80L-399-3N(A)	80	67	399,999	375,000	970	388	277	71 1/2	30 1/4	8	5 1/2	10 1/2	23 1/2	60 1/4	-	1 1/2 (top)	3/4	1	800	835
D-80L-505-3N(A)	80	67	505,000	475,000	1224	489	350	69	30 1/4	10	5 1/2	10 1/2	23 1/2	60 1/4	-	1 1/2 (top)	3/4	1	800	835

Model Number	Capacity		Nat. kW/Hr. Input	LP kW/Hr. Input	LPH Recovery at Degree Rise*			A Top Vent Height mm.	B Jacket Dia. mm.	C Vent Dia. mm.	D Front Hot Water Conn. mm.	E Floor to Gas Conn. mm.	F Front Cold Water Conn. mm.	H Floor to Top of Heater mm.	J Floor to Top Water Conn. mm.	Water Conn. mm.	Gas Conn. Dia.	Relief Valve Open. mm.	Approx. Shipping Weight (kg.)	
	Liters	U.S. Gal.			22°C	56°C	78°C												Std.	ASME
D-75T-125-3N	284	38.6	36.6	1147	458	326	1835	718	127	1384	121	864	1651	1705	38 (top)	19	19	236	-	
D-80T-180-3N	303	52.7	52.7	1650	662	469	1926	718	152	1422	121	485	1638	1683	38 (top)	19	19	245	-	
D-80T-250-3N(A)	303	73.2	68.9	2294	916	655	1826	718	152	1422	121	495	1638	1683	38 (top)	19	25	245	268	
D-100T-250-3N(A)	371	73.2	68.9	2294	916	655	2118	718	152	1702	267	485	1918	1962	38 (top)	19	25	277	319	
D-65T-370-3N(A)	246	108.4	108.4	3395	1359	969	1861	718	203	1375	267	737	1645	-	38 (top)	19	25	302	327	
D-80T-425-3N(A)	303	124.5	124.5	3899	1559	1113	2102	718	254	1638	267	737	1918	-	38 (top)	19	25	340	363	
D-100S-199-3N	379	58.6	58.6	1836	734	526	1949	718	152	1534	114	527	1724	1778	38 (top)	19	19	302	-	
D-100L-199-3N	379	58.6	58.6	1836	734	526	1905	708	152	1435	114	597	1645	1702	38 (top)	19	19	329	-	
D-100L-270-3N(A)**	379	79.0	79.0	2479	992	708	1915	768	152	1435	114	597	1645	1702	38 (top)	19	25	329	347	
D-80L-399-3N(A)	303	117.2	109.9	3671	1469	1048	1816	768	203	1308	267	597	1530	-	38 (top)	19	25	363	379	
D-80L-505-3N(A)	303	148.0	139.2	4833	1851	1326	1753	768	254	1308	267	597	1530	-	38 (top)	19	25	363	379	

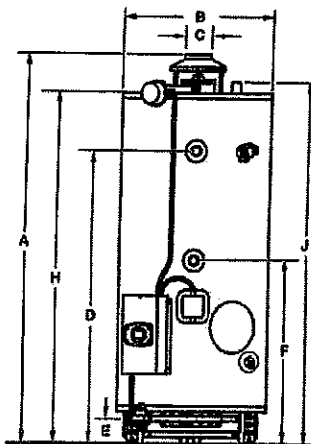
(A) = ASME Code Available
 (F) = Front Water Connection
 (T) = Top Water Connection
 ** = Available in Natural Gas Only
 + = Fiberglass Insulation
 For Propane (LP) Gas models change suffix "N" to "X".
 220V/50Hz Available - Consult factory.

* Recoveries are based on Natural Gas Input and 80% Thermal Efficiency.
 Low NOx models are not available for inputs over 399,999 BTU/Hr.
 For Low NOx compliance, place an "E" following the BTU input identifier of the model number.
 Example: D-75T-125E-3N
 Amperage Draw = .5 for damper models/less than 4 for induced draft models.
 Power Vent Kits - available for inputs from 125,000 to 505,000 BTU/Hr.
 For 5 year models change suffix from "3" to "5".

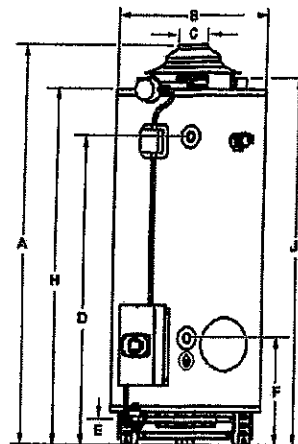
Commercial Gas Water Heater



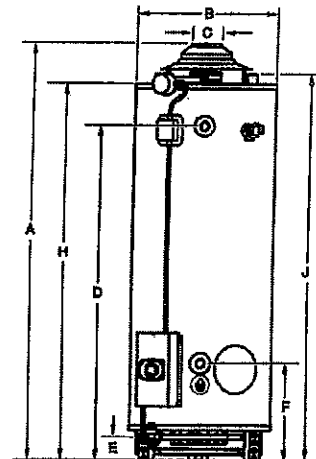
Model D-387-155



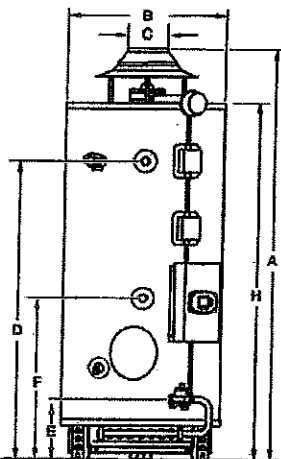
Model D-75T-(125,160)



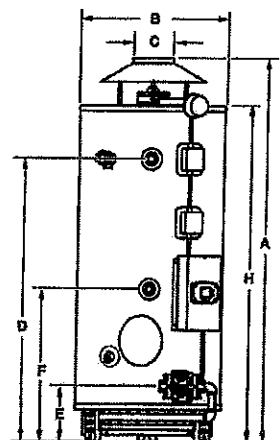
Model D-80T-(188,199,250)



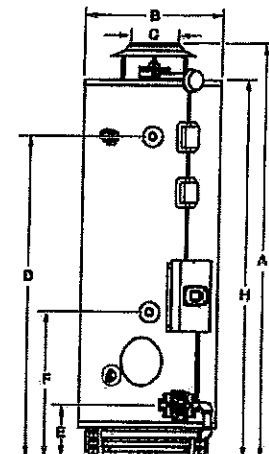
Model D-100T-(199,250)



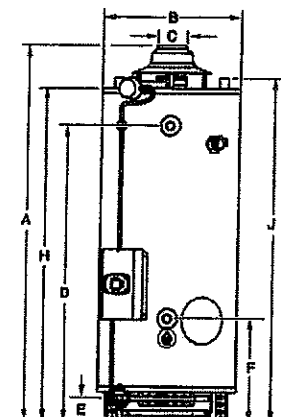
Model D-75T-300



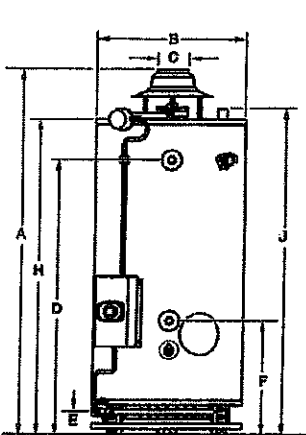
Model D-65T-(370,399)



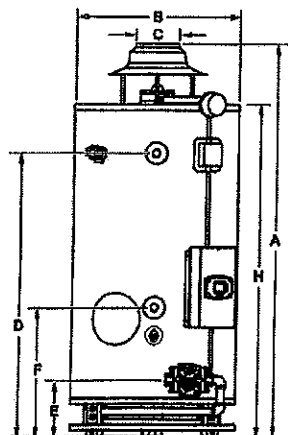
Model D-80T-(425,505)



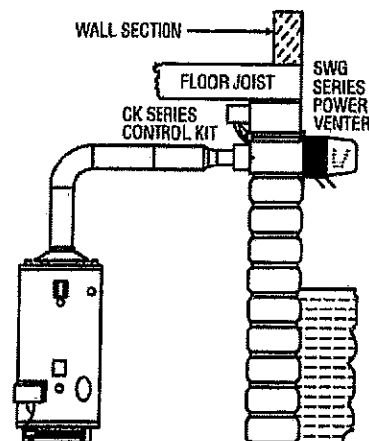
Model D-100S-(199,250)



Model D-100L-(199,250,270,300)



Model D-80L-(389,450,505)



TYPICAL APPLICATIONS

Optional Power Vent Kits - available for inputs from 125,000 to 505,000 BTU/Hr.

BTU Input Range	Kit Number
125,000 to 250,000 BTU/Hr.:	239-81764-00
300,000 to 399,999 BTU/Hr.:	239-81766-00
425,000 to 505,000 BTU/Hr.:	239-82148-00



Commercial Gas Water Heater

Sample Specification

The water heater shall be a Bradford White model with a rated storage capacity of not less than _____ gallons (_____ liters), a minimum gas input of _____ BTU/Hr. (_____ kW), a minimum recovery of _____ GPH (_____ LPH). The tank shall be Vitraglas® lined and have a bolted hand hole cleanout. A digital LCD display shall be integrated into the front control box, and the control shall be an adjustable electronic thermostat to any temperature up to 180°F (85°C) must have an automatic re-set Energy Cut-off (E.C.O), which shuts off all gas in an event of a overheat condition. The tank shall have _____ magnesium anode rods installed in separate tank head couplings. The heater shall have Non-CFC foam insulation, electronic ignition, and come equipped with an ASME rated T&P relief valve, a cold water inlet Hydrojet® Sediment Reduction System, and a automatic flue damper (115V AC required). It shall be design certified by CSA International for 180°F (82°C) application, either with or without a separate storage tank, and comply with state and local codes and ordinances.

General

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All models are design certified by CSA International (formerly AGA/CGA), ANSI standard Z-21.10.3, for up to 180°F (82°C) application as an Automatic Storage Heater, and an Automatic Circulating Tank Heater. As an Automatic Storage Heater, all models are complete, self-contained water heating systems. It needs no separate storage tank, pump, wiring or elaborate piping network. When equipped with a mixing valve, it will supply 180°F (82°C) sanitizing and lower temperature general purpose hot water simultaneously. These models can be used either as a single unit or in multiples connected in series or parallel (recommended).

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.



Ambler, PA

For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089

International: Telephone 215-641-9400 • Telefax 215-641-9750 / www.bradfordwhite.com

BRADFORD WHITE-CANADA INC. Sales / Technical Support 866-690-0961 / 905-238-0100 • Fax 905-238-0105 / www.bradfordwhite.com

Built to be the Best™

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Commercial Immersion and Surface Mounted Electric Water Heater

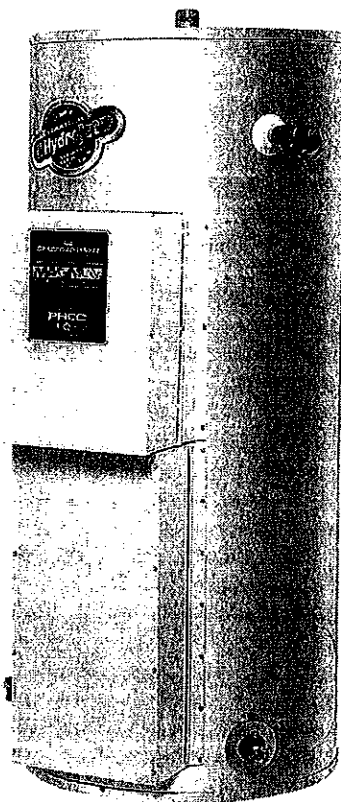


Photo is of
M-II-50-kW-3SF

The Immersion and Surface Mounted Electric Models Feature:

- **Surface Mounted Thermostat Step Control (modulation)**—Can be accomplished by variable setting on thermostats (each element has an individual thermostat and high limit).
- ■ **Immersion Thermostats**—Immersion type for accurate temperature control from up to 180°F (82°C) with manual reset high limit control.
- **3" (76mm) Non-CFC foam insulation**—Covers the sides and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.
- **Factory Installed Hydrojet® Sediment Reduction System**—Cold water inlet sediment reducing device helps prevent sediment build up in the tank.
- **Vitraglas® Lining**—Bradford White tanks are lined with an exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitraglas®) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).
- **Water Connections**—1½" NPT factory installed true dielectric fittings extend water heater life and eases installation.
- **Elements**—Screw in style. Surface mounted thermostat models have elements made of nickel chromium wire embedded in magnesium oxide, sheathed in copper and electroplated to minimize degradation of the anode. Incoloy sheathed elements are optional (Incoloy elements are standard for all 600 volt models). Immersion thermostat models have low watt density incoloy sheathed elements standard which resists burnout caused by dry fire or lime buildup.
- ■ **Two Magnesium Anode Rods**—Provide added protection against corrosion for long trouble free service.
- ■ **Hand Hole Cleanout**—Allows inspection of tank interior and facilitates the removal of sediment deposits.
- ■ **ASME Construction Available.**
- **NSF Construction Available.**
- **Low Restriction Brass Drain Valve**—Durable tamper proof design.
- **T&P Relief Valve**—Installed.
- **Completely Pre-wired**—With pressure lug terminal block eliminating need for splicing or taping of wires.
- **Voltages Available**—208v, 240v, 277v, 380v, 415v, 480v and 600v.



3 or 5-Year Limited Tank Warranties / 1-Year Limited Warranty on Component Parts.

For more information on warranty, please visit www.bradfordwhite.com

For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,866; 7,634,876; 5,660,165; 5,964,492; 6,056,512; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,884,821; 6,442,178; 7,334,419; 7,666,168; 7,270,087; 7,007,748; 5,698,952; 6,142,218; 7,699,026; 5,341,770; 7,337,517; 7,685,211; 7,685,210; 7,063,132; 7,063,133; 7,659,293; 7,900,589; 5,543,884; 8,082,888; 5,988,117; 7,621,238; 7,650,858; 5,761,379; 7,408,925; 5,277,171; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,846; 2,504,824; 2,108,186; 2,143,031; 2,409,271; 2,348,958; 2,112,615; 2,476,865; 2,239,007; 2,092,106; 2,107,012. Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.

Commercial Electric Water Heater

Immersion and Surface Mounted Models

Model Number	Capacity		A Height	B Jacket Dia.	C Height to T&P Conn.	D Floor to Hot Water Outlet	E Floor to Cold Water Inlet	F Floor to Top of Control Box	Approx. Shipping Weight lbs.	
	U.S. Gal.	Imp. Gal.	In.	In.	In.	In.	In.	In.	Std.	ASME
M-II-80(A)-kW-3SF	80	67	60 1/4	26	52 1/2	61 1/4	6 3/4	46 1/2	335	378

Model Number	Capacity		A Height	B Jacket Dia.	C Height to T&P Conn.	D Floor to Hot Water Outlet	E Floor to Cold Water Inlet	F Floor to Top of Control Box	Approx. Shipping Weight kg.	
	Liters		mm.	mm.	mm.	mm.	mm.	mm.	Std.	ASME
M-II-80(A)-kW-3SF	303		1530	660	1334	1568	178	1181	152	171

Model numbers shown are for Surface Mount thermostats.

For Immersion thermostat change suffix "SF" to "CF". Voltage and phase must be specified when ordering. Example: M-II-50-12-3SF, 240 Volt, 3 phase.

(A) ASME Construction available.

For ASME construction add "A" to the model number.

Example: M-II-50A-12-3SF.

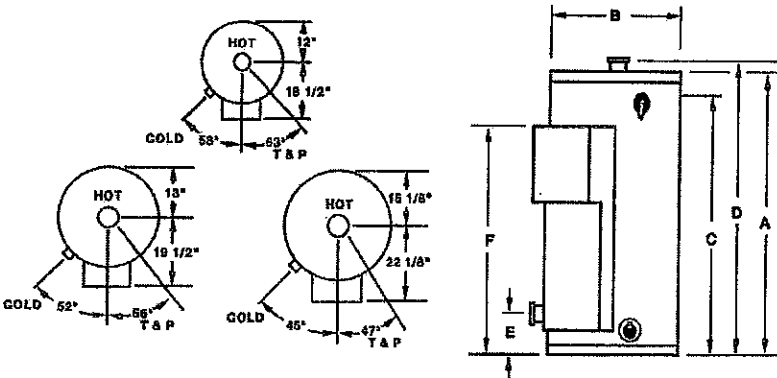
Number of Elements (Fused Models)*

kW	208V Phase		240V Phase		277V Phase		380V Phase		415V Phase		480V Phase		600V Phase	
	1	3	1	3	1	3	1	3	1	3	1	3	1	3
9	3	3	3	3	3	3	3	3	3	3	3	3	3	3
13.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
18	3	3	3	3	3	3	3	3	3	3	3	3	3	3
27	6	6	6	6	6	6	6	6	6	6	6	6	6	6
36	6	6	6	6	6	6	6	6	6	6	6	6	6	6
54	9	9	9	9	9	9	9	9	9	9	9	9	9	9

Full Load Current Amperes (Fused Models)*

kW	208V Phase		240V Phase		277V Phase		380V Phase		415V Phase		480V Phase		600V Phase	
	1	3	1	3	1	3	1	3	1	3	1	3	1	3
9	43.2	25.0	37.2	21.8	32.4	14.0	13.0	18.7	10.8	8.7				
13.5	64.9	37.5	56.2	32.5	48.7	21.0	19.0	28.1	16.2	13.0				
18	86.5	50.0	72.0	43.4	64.0	28.0	25.0	37.5	21.6	17.3				
27	129.8	75.0	112.5	65.0	97.4	41.0	38.0	56.2	32.5	26.0				
36	173.0	100.0	150.0	86.7	129.9	56.0	50.0	75.0	43.3	34.6				
54	259.6	150.0	225.0	130.0	184.9	83.0	75.0	112.5	65.0	52.0				

Units with amperage draw of 48 amps or more require factory installed internal fusing. *If the number of elements on non-fused models is different, it is located in parentheses (), following the amp draw.



kW Input	Recovery Temperature Rise °F											
	40	50	60	70	80	90	100	120	140			
9	93	74	62	53	47	42	37	31	27			
13.5	140	112	93	80	70	62	56	47	40			
18	186	149	124	106	93	83	74	62	53			
27	279	223	186	160	140	124	112	93	80			
36	372	298	248	213	186	165	149	124	106			
54	558	447	372	319	278	248	223	186	160			

Optional surface thermostats ranging from 80°F to 140°F are available.

Sample Specification

The water heater shall be a Bradford White model with a rated storage capacity of not less than _____ gallons (_____ liters), a minimum kW input of _____ kW (_____ BTU/Hr.), a minimum recovery of _____ GPH (_____ LPH). The tank shall be Vitraglas® lined and have a bolted hand hole cleanout. The tank shall have _____ magnesium anode rods installed in separate tank head couplings. The heater shall have 3" Non-CFC foam insulation, and come equipped with an ASME rated T&P relief valve, a cold water Inlet Hydrojet® Sediment Reduction System. It shall be design certified by ETL for 180°F (82°C) application, either with or without a separate storage tank, and comply with state and local codes and ordinances.

General

All electric water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All models are design certified by ETL, for up to 180°F (82°C) application as an Automatic Storage Heater, and an Automatic Circulating Tank Heater. As an Automatic Storage Heater, all models are complete, self-contained water heating systems. It needs no separate storage tank, pump, wiring or elaborate piping network. When equipped with a mixing valve, it will supply 180°F (82°C) sanitizing and lower temperature general purpose hot water simultaneously. These models can be used either as a single unit or in multiples connected in series or parallel (recommended). Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.



For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales 800-523-2931 • Fax 215-641-1670 / Technical Support 800-334-3393 • Fax 269-795-1069 • Warranty 800-531-2111 • Fax 269-795-1089

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Built to be the Best™

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JEFFERSON COUNTY
DEPARTMENT OF ADMINISTRATIVE SERVICES
 729 MAPLE ST / PO BOX 100
 HILLSBORO MO 63050
 WWW.JEFFCOMO.ORG

Invitation for Bid: HOT WATER HEATERS

Date Issued: 10-14-15

BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, NOVEMBER 17, 2015, AT 2:00 P.M. LOCAL TIME.

**Specification
 Contact:**

KRISTY MOSS
 Department of Public Works
 636-797-5569
 kmoss@jeffcomo.org

**Contract
 Contact:**

VICKIE PRATT
 Department of Administrative Services
 636-797-5380

**Mail (3) Three
 Complete Copies
 With Vendor And
 Bid Information As
 Shown In Sample:**

SAMPLE ENVELOPE

<i>VENDOR NAME</i>	
<i>VENDOR ADDRESS</i>	
<i>CONTACT NUMBER</i>	
	DEPARTMENT OF THE COUNTY CLERK
	JEFFERSON COUNTY MISSOURI
	729 MAPLE ST / PO BOX 100
	HILLSBORO MO 63050-0100
SEALED BID: (BID NAME)	

**Contract Term:
 UPON APPROVAL OF THE
 COUNTY COUNCIL AND
 COUNTY EXECUTIVE**

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for one additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

**Vendor
 Information:**

<i>Atlas Supply Co</i>	<i>Nick Hummel</i>
Company Name	Authorized Agent (Print)
<i>3820 N. L. King Dr.</i>	<i>Nick Hummel</i>
Address	Signature
<i>St. Louis, Mo 63113</i>	<i>Outside Sales</i>
City/State/Zip Code	Title
<i>314-533-1500</i>	<i>11/17/2015 43101 8074</i>
Telephone #	Date
<i>nhummel@atlassupply.co.com</i>	<i>314-533-1588</i>
E-mail	Tax ID #
	Fax #

Bid Pricing:

(1) Commercial Natural Gas hot water heater- 85 Gal

UNIT ONLY BID:

Brand and Model: Ruvd 985-400A
Bid Price for unit \$ 8425.00

UNIT WITH INSTALLATION:

Brand and Model: _____
Bid Price for unit \$ _____
Installation hourly rate: \$ _____

(2) Heavy Duty Electric Hot Water heater -80 Gal

UNIT ONLY BID:

Brand and Model: LOCHINVAR CHK0980A CHK18080A
Bid Price for unit \$ 6360.00 \$6600.00

UNIT WITH INSTALLATION:

Brand and Model: _____
Bid Price for unit \$ _____
Installation hourly rate: \$ _____

(3) Heavy Duty Electric Hot Water heater -120 Gal

UNIT ONLY BID:

Brand and Model: Lochinvar CHX36120A
Bid Price for unit \$ 9140.00

UNIT WITH INSTALLATION:

Brand and Model: _____
Bid Price for unit \$ _____
Installation hourly rate: \$ _____



Lochinvar[®]
HIGH EFFICIENCY BOILERS & WATER HEATERS

**COMPACT ASME HI-POWER[®]
WATER HEATER
Submittal Sheet**

HPC-Sub-03e

COMPACT ASME HI-POWER[®] COMMERCIAL ELECTRIC WATER HEATERS

JOB NAME Public Works Hot Water Heaters
 LOCATION Jefferson County, Mo.
 ENGINEER _____
 WHOLESALER Atlas Supply Co.
 MECH. CONTRACTOR _____
 MODEL NO. CHK09080A, CHK18080A, CHX36130A
 RECOVERY RATE IN GPH _____ @ _____ °F RISE
 GALLON CAPACITY 80 GAL & 120 GAL
 VOLTAGE/PHASE _____
 KW _____
 NOTES _____

Standard Features

- Meets ASHRAE Energy Efficiency Standards
- ASME Code Construction HLW
- 150 psi working pressure for 5 thru 50 gallon models.
- 125 psi working pressure for 65 thru 120 gallon models.
- Tank Saver Anode & Powered Anode
- Low Watt Incoloy Heating Element
- Energy Cut-Off
- Low Water Cut Off
- Enable / Disable Contacts
- Night Setback
- Internal Fusing
- 180°F Operation Approved
- ASME Temperature and Pressure Relief Valve
- Non-CFC Foam Insulation
- Hinged Access Door
- Immersion Thermostats with Contactors
- 3 Year Limited Tank Warranty
- 1 Year Limited Parts Warranty
(See warranty for details)

Optional Equipment

Place an X in the box by all options that apply.

- Alarm Horn
- High Water Pressure Limit Switch
- Low Water Pressure Limit Switch
- Temperature & Pressure Gauge
- 150 PSI Working Pressure
- 4" x 6" Handhole Cleanout
- Pilot Light & Switches
- Modulating Control

*Note: T&P relief valve supplied, not factory mounted

Dimensions & Specifications

Model Number	Gallon Capacity	Maximum kW	A	B	C	D	Water Conn.	Shipping Weight
CH(X)kW 005A	5	3	20-1/2"	16-1/4"	22-1/2"	5-1/4"	3/4"	100
CH(X)kW 010A	10	6	26-1/4"	18-3/4"	25"	5-1/4"	3/4"	116
CH(X)kW 020A	20	18	27-1/4"	20-1/2"	26-1/2"	5-3/4"	3/4"	145
CH(X)kW 030A	30	24	35-3/4"	20-1/2"	26-1/2"	5-3/4"	3/4"	168
CH(X)kW 040A	40	36	45-3/4"	20-1/2"	26-1/2"	5-3/4"	3/4"	206
CH(X)kW 050A	50	90	54-3/4"	20-1/2"	26-1/2"	5-3/4"	3/4"	235
CH(X)kW 065A	65	90	54"	26-1/2"	33-1/2"	7"	1-1/4"	280
CH(X)kW 080A	80	90	52-1/4"	28"	35"	7"	1-1/4"	300
CH(X)kW 100A	100	90	60-1/2"	28"	35"	7"	1-1/4"	354
CH(X)kW 120A	120	90	65-1/2"	30"	37"	7-1/2"	1-1/4"	430

NOTE: Allow 24" clearance from front access panel for service and maintenance.

VOLTAGE SCHEDULE

A - 240V / 1 PH	Z - 415V / 3 PH
J - 208V / 1 PH	V - 480V / 1 PH
K - 208V / 3 PH	X - 480V / 3 PH
B - 240V / 3 PH	M - 575V / 3 PH
W - 277V / 1 PH	N - 600V / 3 PH
Y - 380V / 3 PH	

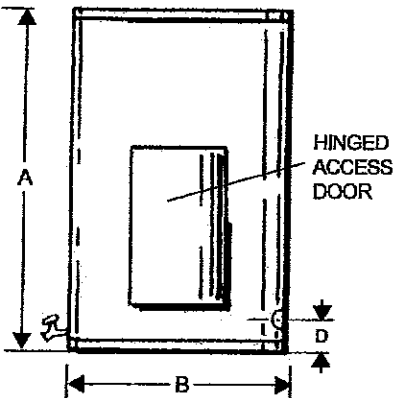
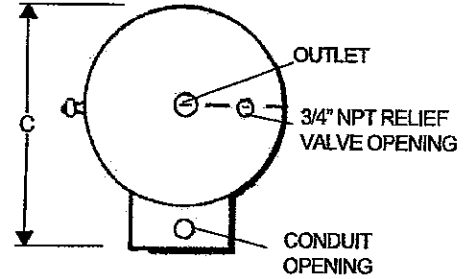
Amperage Table

kW	SINGLE PHASE				THREE PHASE		
	208V	240V	277V	480V	208V	240V	480V
3	14.4	12.5	10.8	6.3	8.3	7.2	3.6
6	28.8	25.0	21.7	12.5	16.7	14.4	7.2
9	43.3	37.5	32.5	18.8	25.0	21.7	10.8
12	57.7	50.0	43.3	25.0	33.3	28.9	14.4
15	72.1	62.5	54.2	31.3	41.6	36.1	18.0
18	86.5	75.0	65.0	37.5	50.0	43.3	21.7
24	115.4	100.0	86.6	50.0	66.6	57.7	28.9
30	144.2	125.0	108.3	62.5	83.3	72.2	36.1
36	173.1	150.0	130.0	75.0	99.9	86.6	43.3
45	216.3	187.5	162.5	93.8	124.9	108.3	54.1
54	N/A	225.0	194.9	112.5	149.9	129.9	65.0
60	N/A	250.0	216.6	125.0	166.5	144.3	72.2
75	N/A	N/A	N/A	156.3	208.2	180.4	90.2
90	N/A	N/A	N/A	187.5	249.8	216.5	108.3

Note: All ASME models with an amp draw in excess of 120 amps receive factory installed internal fusing.

GPH Recovery Rate

INPUT kW	Btu/hr	Recovery Rate (GPH @ °F Rise)											
		30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	120°F	130°F	140°F
3	10,239	41	31	34	20	17	15	13	12	11	10	10	9
6	20,478	82	62	49	41	35	31	27	25	22	21	19	18
9	30,717	123	92	74	62	53	46	41	37	34	31	28	26
12	40,956	164	123	98	82	70	61	55	49	45	41	38	35
15	51,195	205	154	123	102	88	77	68	61	56	51	47	44
18	61,434	246	184	148	123	105	92	82	74	67	62	57	53
24	81,912	328	246	197	164	140	123	109	98	90	82	76	70
30	102,390	410	308	246	205	176	154	137	123	112	103	95	88
36	122,868	492	369	295	246	211	184	164	148	134	123	113	105
45	153,585	615	461	369	307	263	230	205	184	168	154	142	132
54	184,302	738	554	443	359	316	277	246	221	201	185	170	158
60	204,780	819	615	492	410	351	307	273	246	223	205	189	176
75	255,975	1,025	768	615	512	439	384	341	307	279	256	236	219
90	307,710	1,229	922	738	615	527	461	410	369	335	307	284	263



Note: Outlet connection for 5 thru 50 models 3/4" NPT.
Outlet connection for 65 thru 120 models 1-1/4" NPT.



Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615-889-8900 / F: 615-547-1000
www.Lochinvar.com





JEFFERSON COUNTY
DEPARTMENT OF ADMINISTRATIVE SERVICES
 729 MAPLE ST / PO BOX 100
 HILLSBORO MO 63050
 WWW.JEFFCOMO.ORG

ORIGINAL

Invitation for Bid: HOT WATER HEATERS

Date Issued: 10-14-15

BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, NOVEMBER 17, 2015, AT 2:00 P.M. LOCAL TIME.

**Specification
 Contact:**

KRISTY MOSS
 Department of Public Works
 636-797-5569
 kmoss@jeffcomo.org

**Contract
 Contact:**

VICKIE PRATT
 Department of Administrative Services
 636-797-5380

SAMPLE ENVELOPE

**Mail (3) Three
 Complete Copies
 With Vendor And
 Bid Information As
 Shown In Sample:**

<i>VENDOR NAME</i>	
<i>VENDOR ADDRESS</i>	
<i>CONTACT NUMBER</i>	DEPARTMENT OF THE COUNTY CLERK
	JEFFERSON COUNTY MISSOURI
	729 MAPLE ST / PO BOX 100
	HILLSBORO MO 63050-0100
SEALED BID: <i>(BID NAME)</i>	

**Contract Term:
 UPON APPROVAL OF THE
 COUNTY COUNCIL AND
 COUNTY EXECUTIVE**

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for one additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

**Vendor
 Information:**

DEKA Service	Kathleen Bowlin
Company Name	Authorized Agent (Print)
1802 Larkin Williams Rd.	
Address	Signature
Fenton, Missouri 63026	Vice President
City/State/Zip Code	Title
636-600-1466	11/17/2015 45-2465456
Telephone #	Date Tax ID #
kathy@dekaservice.net	636-600-1468
E-mail	Fax #

Bid Pricing:

(1) Commercial Natural Gas hot water heater- 85 Gal

UNIT ONLY BID:

Brand and Model: Rheem G85-400A - 85 Gallon Gas Water Heater

Bid Price for unit \$ 9,647.00

UNIT WITH INSTALLATION:

Brand and Model: Rheem G85-400A - 85 Gallon Gas Water Heater

Bid Price for unit \$9,110.00 unit + \$1,034.00 for permits, piping and flue materials

Installation hourly rate: \$ 80.00

(2) Heavy Duty Electric Hot Water heater -80 Gal

UNIT ONLY BID:

Brand and Model: AO Smith DRE80 - 80 Gallon Electric Water Heater

Bid Price for unit \$ 4,638.00

UNIT WITH INSTALLATION:

Brand and Model: AO Smith DRE80 - 80 Gallon Electric Water Heater

Bid Price for unit \$ 4,380.00 unit + \$1,029 for permits and piping materials

Installation hourly rate: \$ 80.00

(3) Heavy Duty Electric Hot Water heater -120 Gal

UNIT ONLY BID:

Brand and Model: AO Smith DRE120 - 120 Gallon Electric Water Heater

Bid Price for unit \$ 5,049.00

UNIT WITH INSTALLATION:

Brand and Model: AO Smith DRE120 - 120 Gallon Electric Water Heater

Bid Price for unit \$ 4,769.00 unit + \$1,029 for permits and piping materials

Installation hourly rate: \$ 80.00