



Energy Saver Residential Electric Water Heaters

Energy Saver Electric Models

Lochinvar's Energy Saver residential electric models are available in 30, 40, 50 and 55 gallon capacities in short, medium and tall configurations.

Standard Features

- **Code Compliance** - The Energy Saver residential electric water heater meets the National Appliance Energy Conservation Act (NAECA) Energy Factor requirements effective April 16, 2015. Meets the thermal efficiency and standby loss requirements of ASHRAE/IES 90.1. Meets UBC, CEC and HUD national codes.
- **Approved for Manufactured Home** - The Energy Saver electric models meet HUD requirements for manufactured home installations.
- **Adjustable Electric Thermostat Control** - This accurate control provides an easy way to adjust water temperature for best economy and optimum comfort. An automatic overheat safety control is standard.
- **Immersion Heating Elements** - Zinc-coated, copper sheath design for longer life in hard, aggressive water. The elements screw in for easy service and replacement.
- **Glass-Lined Steel Tank** - The durable glass lining is fused to the steel tank at 1600°F to assure lasting protection against rust and corrosion while providing clear, clean hot water. 300 PSI test pressure; 150 PSI working pressure.
- **Non-CFC Foam Insulation** - A uniform coverage of thick closed-cell foam insulation minimizes standby heat loss, maximizes heat retention and delivers a high Energy Factor.
- **Tank Saver Anode** - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.
- **Heat Trap** - Heat traps are built into the inlet and outlet connections to eliminate heat migration and heat loss in the water piping.
- **Temperature & Pressure Relief Valve** - Factory installed for optimum safety.
- **Brass Drain Valve** - An enhanced ball valve design for effective drainage and positive shut-off.
- **6-Year Limited Tank & Parts Warranty*** - See warranty sheet for details.
- **10-Year Extended Warranty Available** - Available for residential applications only.

* 1-year limited tank & parts warranty when installed in a commercial application.



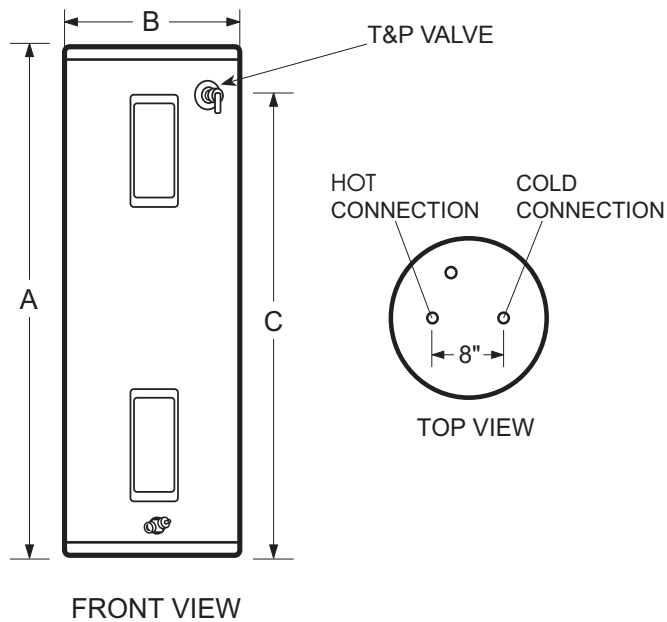
Optional Features

- **Voltages Available**—120, 208, 240 volts.
(Wired for single phase only)

*For 277, 380, 415 & 480 volts, and all 3 phase
see Light Duty Commercial Water Heaters*

All models meet or exceed the NAECA and ASHRAE Energy Efficiency Standards

Dimensions and Specifications



ELEMENT AVAILABILITY SCHEDULE			
Wattage	C - 120V	J - 208V	A - 240V
C-1500	N/A	Yes	Yes
D-1650	Yes	N/A	N/A
E-2000	Yes	Yes	Yes
F-2500	Yes	Yes	Yes
G-3000	Yes	Yes	Yes
H-3500	N/A	Yes	Yes
J-4000	N/A	Yes	Yes
K-4500	N/A	Yes	Yes
M-5000	N/A	Yes	Yes
N-5500	N/A	Yes	Yes
P-6000	N/A	N/A	Yes

RECOVERY RATE (GPH @ °F)		
40°F	70°F	100°F
16	9	6
17	10	7
21	12	8
26	15	10
31	18	12
36	21	14
41	24	17
47	27	19
52	30	21
57	32	23
62	35	25

VOLTAGE SCHEDULE

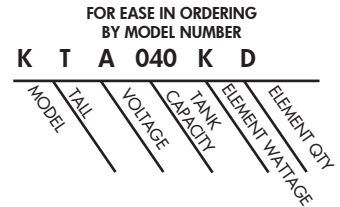
C - 120V	1ø
J - 208V	1ø
A - 240V	1ø

Model Number	Gal. Cap.	Standard Watts	Standard Voltage	Energy Factor	1st Hr. Rating	GPH @ 90°F Rise	A	B	C	Ship. Wt.
Energy Saver with Insulation Blanket - Short Models										
KSA030KDB	28	4500	240V	.95	40	21	30"	22"	21-3/4"	96
KSA040KDB	38	4500	240V	.95	46	21	31-3/4"	24"	24"	118
Energy Saver - Short Models										
KSA030KD	28	4500	240v	.95	43	21	31-1/4"	24"	21-3/4"	115
KSA040KD	38	4500	240v	.95	44	21	33-1/2"	26"	24"	118
Energy Saver with Insulation Blanket - Medium Models										
KMA030KDB	30	4500	240V	.95	48	21	39"	20"	30-1/2"	95
Energy Saver - Medium Models										
KMA030KD	30	4500	240V	.95	49	21	39-3/4"	22"	30-1/2"	94
KMA040KD	40	4500	240V	.95	55	21	50"	22"	40-3/4"	109
KMA050KD	50	4500	240V	.95	62	21	49-3/4"	24"	40-1/2"	161
Energy Saver with Insulation Blanket - Tall Models										
KTA052KDB	50	4500	240V	.95	70	21	60-1/4"	21"	51-1/4"	131
Energy Saver - Tall Models										
KTA030KD	30	4500	240V	.95	47	21	46-1/2"	19"	39-1/2"	95
KTA040KD	40	4500	240V	.95	51	21	60-1/4"	20"	53-1/4"	118
KTA052KD	50	4500	240V	.95	71	21	60-1/2"	22"	51-1/4"	134
KTA055KD	55	4500	240V	.94	76	21	56-1/2"	24"	48-1/2"	145

Notes: Standard Voltage and Wattage: 240V - 4500W.

Certified for Potable Water and Space Heating Applications

This water heater is suitable for water heating and space heating. Toxic chemicals, such as those used for boiler water treatment shall NEVER be introduced into this system. This water heater may NEVER be connected to any existing heating system or components previously used with non-potable water heating appliances.



This is a 240 volt Tall Water Heater. 40 gallon with upper 4500 watt and lower 4500 watt elements.



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RESIDENTIAL ELECTRIC LIMITED WARRANTY

THIS WARRANTY IS APPLICABLE TO THE ORIGINAL OWNER ONLY. In accordance with the warranty terms and conditions specified below.

The warrantor will furnish the ORIGINAL OWNER, 1) a replacement water heater of equivalent size and current model if the glass-lined tank in this water heater leaks and, 2) a replacement part for any component part which fails. Sacrificial anode rods are consumable maintenance parts and are excluded from warranty coverage.

THE LOCHINVAR WATER HEATERS REPLACEMENT MODEL OR PART WILL BE WARRANTED FOR ONLY THE UNEXPIRED PORTION OF THE ORIGINAL WARRANTY. The warranty period will be determined by the original date of purchase of the water heater, or in the absence of a Bill of Sale verifying said date, from the date of manufacture indicated on rating plate affixed to this water heater. This warranty is not transferable and applies to models listed below:

MODEL PREFIX	TANK	PARTS
JR, JT, JE, KS, KM, KT	6-Year	6-Year
HP	10-Year	10-Year

When the water heater has been used for other than single family residential application;

1. The tank warranty shall be reduced to 1 year for 6 year models.
2. The parts warranty shall be reduced to 1 year for all models.

CONDITIONS AND EXCEPTIONS

This warranty shall apply only when the water heater is installed and operated in accordance with 1) all local fire codes and plumbing codes, ordinances and regulations, 2) the printed instructions provided with it, 3) good industry practices, and 4) proper safety practices such as but not limited to a properly sized drain pan if installed in an area where leakage from the tank or its connections would result in damage to the area adjacent to the heater. In addition, a new temperature and pressure relief valve, certified by the Canadian Gas Association must have been properly installed and piped to the nearest drain.

This warranty shall apply only when the heater is:

- owned by the original purchaser;
- installed for indoor operation only;
- used at temperatures not exceeding the maximum calibrated setting of its thermostat;
- used at water pressure not exceeding the working pressure shown on the heater;
- filled with potable water, free to circulate at all times and with the tank free of damaging water sediment or scale deposits;
- used in a non-corrosive and non-contaminated atmosphere;
- used with factory approved anode(s) installed;

- in its original installation location;
- in the United States, its territories or possessions, and Canada;
- sized in accordance with proper sizing techniques for residential water heaters;
- bearing a rating plate which has not been altered, defaced or removed except as required by the warrantor;
- used in an open system or in a closed system with a properly sized and installed thermal expansion tank;
- connected to the proper voltage or;
- operated at the factory rated input;
- installed with no attempted, nor actual modification or alteration of the water heater's design in any way, including but not limited to, the attachment of non-company approved appliances or equipment, including any additional aftermarket equipment introduced into the sealed system.

Any accident to the water heater or any part thereof (including freezing, fire, floods, or lightning), any misuse, abuse or alteration of it, any operation of it in a modified form, any operation of the water heater on desalinated (deionized) water, or any damage caused by attempts to repair tank leaks or parts, will void this warranty. This warranty does not cover water heaters replaced for cosmetic reasons or for reasons of noise, taste, odor, discolored and/or rusty water. This warranty does not apply to water heaters used to heat pools, whirlpools or hot tubs or used for space heating where its sizing does not conform with specifications of the heating component manufacturer.

This warranty gives you specific legal rights, and you may have other rights which vary under the laws of each state. If any provision of this warranty is prohibited or invalid under applicable state law, that provision shall be ineffective to the extent of the prohibition or invalidity without invalidating the remainder of the affected provision or the other provisions of this warranty.

SERVICE AND LABOR RESPONSIBILITY

UNDER THIS LIMITED WARRANTY, THE WARRANTOR WILL PROVIDE ONLY A REPLACEMENT WATER HEATER OR PART THEREOF. THE OWNER IS RESPONSIBLE FOR ALL OTHER COSTS. Such costs may include but are not limited to:

- a. Labor charges for service, removal, or reinstallation of the water heater or part thereof.
- b. Shipping and delivery charges for forwarding the new water heater or replacement part from the nearest distributor and returning the claimed defective heater or part to such distributor.
- c. All cost necessary or incidental for handling and administrative charges, and for any materials and/or permits required for installation of the replacement heater or part.

LIMITATION ON IMPLIED WARRANTIES

Implied warranties, including any warranty of merchantability imposed on the sale of this heater under state law are limited to one year duration for the heater or any of its parts. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

CLAIM PROCEDURE

Any claim under this warranty should be initiated with the dealer who sold the heater, or with any other dealer handling the warrantor's products. If this is not practical, the owner should contact: Lochinvar LLC, 300 Maddox Simpson Pkwy, Lebanon, TN 37090. Phone: 1-615-889-8900 or visit our website: www.lochinvar.com.

Replacement Parts may be ordered through authorized servicers or distributors. Call or contact Lochinvar LLC, 300 Maddox Simpson Pkwy, Lebanon, TN 37090. Phone: 1-615-889-8900 or visit our website at: www.lochinvar.com.

The warrantor will only honor replacement with identical or similar water heater or parts thereof which are manufactured or distributed by the warrantor. Dealer replacements are made subject to in-warranty validation by warrantor.

PROOF OF PURCHASE AND PROOF OF INSTALLATION DATE ARE REQUIRED TO SUPPORT WARRANTY CLAIM FROM ORIGINAL OWNER.

DISCLAIMERS

NO EXPRESSED WARRANTY HAS BEEN OR WILL BE MADE IN BEHALF OF THE WARRANTOR WITH RESPECT TO THE MERCHANTABILITY OF THE HEATER OR THE INSTALLATION, OPERATION, REPAIR OR REPLACEMENT OF THE HEATER OR PARTS. THE WARRANTOR SHALL NOT BE RESPONSIBLE FOR WATER DAMAGE, LOSS OF USE OF THE UNIT, INCONVENIENCE, LOSS OR DAMAGE TO PERSONAL PROPERTY, OR OTHER CONSEQUENTIAL DAMAGE. THE WARRANTOR SHALL NOT BE LIABLE BY VIRTUE OF THIS WARRANTY OR OTHERWISE FOR DAMAGE TO ANY PERSONS OR PROPERTY, WHETHER DIRECT OR INDIRECT, AND WHETHER ARISING IN CONTRACT OR IN TORT.

Should governmental regulations or industry standards prohibit the Manufacturer from furnishing a comparable model replacement under this warranty, the Owner will be furnished with the closest comparable water heater meeting the then current governmental regulations and industry standards. A supplementary fee may be assessed to cover the additional cost associated with the changes made to meet applicable regulations and standards.

IMPORTANT INFORMATION

Model Number _____

Serial Number _____

Date of Installation _____

