

## Light Duty Commercial Upright Energy Saver Electric Water Heater



Photo is of  
LD-50S3-3



Copper Screw Type Immersion Element  
(Incoloy type immersion element available upon request)

### The Light Duty Upright Electric Models Feature:

- **Fully Automatic Controls**—Fast acting surface-mount thermostats for automatic temperature control. Factory installed sensitive manual reset energy cutoff for safety to prevent overheating (Maximum thermostat setting is 160°F).
- **Direct Heat Transfer With Immersed Elements**—Transfers heat directly and efficiently to the water. Screw-in style.
- **Factory Installed Hydrojet® Total Performance System**—Cold water inlet sediment reducing device helps prevent sediment build up in tank. Increases first hour delivery of hot water while minimizing temperature build up in tank.
- **Vitraglas® Lining**—Bradford White tanks are lined with a exclusively engineered enamel formula that provides superior 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.
- **2" 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**—3/4" NPT factory installed true dielectric fittings extend water heater life and eases installation (LD-120R has 1" NPT dielectric waterway fittings).
- **Factory Installed Heat Traps**—Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation (Except LD-120R).
- **Protective Magnesium Anode Rod**—Provides added protection against corrosion for long trouble-free service.
- **Steel Tank**—Heavy gauge steel automatically formed, rolled and welded.
- **Field Convertible**—Units are shipped from factory Three Phase, Non-Simultaneous (120V and 277V are shipped Single Phase, Non-Simultaneous). All models can be converted to Single Phase and/or Simultaneous operation in the field.
- **Voltages Available**—120V, 208V, 240V, 277V, 480V.
- **T&P Relief Valve Installed**—All models have special tapping on top of tank.
- **Low Restriction Brass Drain Valve**—Durable tamper proof design.



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

For more information on warranty, please visit [www.bradfordwhite.com](http://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.

# Commercial Electric Water Heater

## Light Duty Upright Energy Saver Models

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed

Model Number	Capacity		Recovery 100°F Rise		A Floor to Heater Top	B Jacket Dia.	C Floor to Water Conn.	D Floor to T&P Conn.	E Floor to Electrical Access	Approx. Shipping Weight
	U.S. Gal.	Imp. Gal.	U.S. GPH*	Imp. GPH*	in.	in.	in.	in.	in.	lbs.
LD-30R3-3	30	25	18	15	46 <sup>7</sup> / <sub>8</sub>	18	48 <sup>1</sup> / <sub>8</sub>	47 <sup>9</sup> / <sub>16</sub>	48 <sup>9</sup> / <sub>4</sub>	85
LD-40S3-3	40	33	18	15	46 <sup>7</sup> / <sub>8</sub>	20	47 <sup>7</sup> / <sub>8</sub>	46 <sup>7</sup> / <sub>8</sub>	48 <sup>1</sup> / <sub>8</sub>	103
LD-50S3-3	50	42	18	15	46 <sup>1</sup> / <sub>2</sub>	22	47 <sup>1</sup> / <sub>2</sub>	46 <sup>1</sup> / <sub>2</sub>	47 <sup>3</sup> / <sub>4</sub>	130
LD-65R3-3	65	54	18	15	59 <sup>1</sup> / <sub>4</sub>	22	60 <sup>1</sup> / <sub>4</sub>	59 <sup>1</sup> / <sub>4</sub>	60 <sup>1</sup> / <sub>2</sub>	156
LD-80R3-3	80	67	18	15	59 <sup>1</sup> / <sub>4</sub>	24	60 <sup>1</sup> / <sub>4</sub>	59 <sup>1</sup> / <sub>4</sub>	60 <sup>1</sup> / <sub>2</sub>	183
LD-120R3-3	119	99	18	15	62 <sup>3</sup> / <sub>4</sub>	28	64 <sup>1</sup> / <sub>4</sub>	62 <sup>1</sup> / <sub>4</sub>	64	305

Model Number	Capacity		Recovery 56°C Rise		A Floor to Heater Top	B Jacket Dia.	C Floor to Water Conn.	D Floor to T&P Conn.	E Floor to Electrical Access	Approx. Shipping Weight
	Liters	Liters/ Hour*	mm.	mm.	mm.	mm.	mm.	mm.	mm.	kg.
LD-30R3-3	114	68	1191	457	1222	1199	1238	39		
LD-40S3-3	151	68	1191	508	1216	1191	1222	47		
LD-50S3-3	189	68	1181	559	1207	1181	1213	59		
LD-65R3-3	246	68	1505	559	1530	1505	1537	71		
LD-80R3-3	303	68	1505	610	1530	1505	1537	83		
LD-120R3-3	450	68	1594	711	1632	1581	1626	138		

Specify wattage and voltage when ordering.

Use chart to right for maximum wattages at certain voltages  
For 5 year models, change suffix "3" to "5".

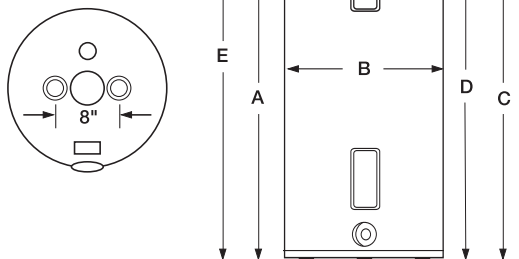
\*Based on 4500W/4500W, Non-Simultaneous operation.

NSF construction not available.

Wattage	Recovery ▲ GPH Temperature Rise °F				
	60	80	90	100	120
1500W	10	8	7	6	5
2000W	14	10	9	8	7
2500W	17	13	11	10	9
3000W	21	15	14	12	10
3500W	24	18	16	14	12
4000W	28	21	18	16	14
4500W	31	23	21	18	15
5000W	34	26	23	21	17
5500W	38	29	25	23	19
6000W	41	31	28	25	21

Wattage Limitations for Non-Simultaneous and Simultaneous Operation	Voltage				
	120V	208V	240V	277V	480V
1500W / 1500W	yes	yes	yes	yes	yes
2000W / 2000W	no	yes	yes	yes	yes
2500W / 2500W	no	yes	yes	yes	yes
3000W / 3000W	no	yes	yes	yes	yes
3500W / 3500W	no	yes	yes	no	no
4000W / 4000W	no	yes	yes	yes	yes
4500W / 4500W	no	yes	yes	yes	yes
5000W / 5000W	no	yes	yes	yes	yes
5500W / 5500W	no	no	yes	no	no
6000W / 6000W	no	no	no	yes	yes

▲(GPH based on Non-Simultaneous operation, when Simultaneous operation the GPH will approximately double.)



### General

All models UL and CUL listed. These heaters are wired inter-locking (Non-Simultaneous, Three Phase) 240V with two 4500W elements, unless otherwise specified.

All water and electrical connections are 3/4" NPT (19mm), 120 gallon model has 1" NPT (25mm).

All models certified at 300 psi test pressure (2068 kPa) and 150 psi working pressure (1034 kPa.)

*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 269-795-1089 • Warranty 800-531-2111 • Fax 269-795-1089

International: Telephone 215-641-9400 • Telefax 215-641-9750 / [www.bradfordwhite.com](http://www.bradfordwhite.com)

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