

## Residential Lowboy Energy Saver Electric Water Heater



Photo is of  
M-1-20L6DS



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

### The Lowboy Electric Models Feature:

- **DOE**—All residential storage models above 20 gallon capacity meet or exceed efficiency requirements of the Department of Energy, ASHRAE Standard 90.1 b (current standard) and the National Appliance Energy Conservation Act of 1987 recent amendment effective January 20, 2004 which supercedes all state and local efficiency requirements.
- **Applications**—Standing at a height of less than 33", Lowboy models are ideal for installations where space is at a premium and are perfect for tight installations such as a closet or under a counter.
- **Fully Automatic Controls**—Fast acting surface-mount thermostats for automatic temperature control. Factory installed sensitive manual reset energy cut-off for safety to prevent overheating.
- **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 an exclusively engineered 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 the 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.
- **Factory Installed Heat Traps**—Design incorporates a flexible disk that reduces heat loss in piping and eliminates the potential for noise generation.
- **Protective Magnesium Anode Rod**—Provides added protection against corrosion for long trouble-free service.
- **Simultaneous and Non-Simultaneous Operation Available**—Simultaneous operation indicates when both elements (if equipped) are being heated at the same time. Non-Simultaneous operation indicates when one element is being heated at a time.
- **Voltages Available**—120V, 208V, 240V, 277V, 480V.
- **Single Phase or Three Phase Operation Available**—277V may only be wired for single phase operation.
- **T&P Relief Valve Included**—Side T&P is standard. Optional top T&P location is available.
- **Low Restriction Brass Drain Valve**—Durable tamper proof design.
- **Design evaluated by ETL in accordance with Part 280.707(d) of HUD Mobile Home Construction and Safety Standards for Energy Efficiency.**



### 6 or 10-Year Limited Tank Warranties / 6 or 10-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.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165; 5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983; 4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968; 4,672,919; Re. 34,534; 7,270,087 B2. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 1,272,914; 1,280,043; 1,289,832; 2,045,862; 2,112,515; 2,108,186; 2,107,012; 2,092,105; 2,409,271. Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.

# Residential Electric Water Heater

## Lowboy Energy Saver Models

C.E.C. Listed

| Model Number | Capacity  |           | Recovery 90°F Rise |           | A Floor to Heater Top          | B Jacket Dia. | C Floor to Water Conn.         | D Floor to T&P Conn.                                            | Approx. Shipping Weight |
|--------------|-----------|-----------|--------------------|-----------|--------------------------------|---------------|--------------------------------|-----------------------------------------------------------------|-------------------------|
|              | U.S. Gal. | Imp. Gal. | U.S. GPH*          | Imp. GPH* | in.                            | in.           | in.                            | in.                                                             | lbs.                    |
| M-1-20L6DS†  | 19        | 16        | 21                 | 18        | 24 <sup>3</sup> / <sub>4</sub> | 18            | 26                             | 19 <sup>1</sup> / <sub>4</sub> / 24 <sup>7</sup> / <sub>8</sub> | 58                      |
| M-1-30L6DS** | 30        | 25        | 21                 | 18        | 29 <sup>3</sup> / <sub>4</sub> | 20            | 31                             | 24 / 29 <sup>3</sup> / <sub>8</sub>                             | 86                      |
| M-2-30L6DS   | 30        | 25        | 21                 | 18        | 30                             | 22            | 31                             | 24 <sup>1</sup> / <sub>8</sub> / 31 <sup>1</sup> / <sub>4</sub> | 96                      |
| M-1-40L6DS** | 40        | 33        | 21                 | 18        | 31 <sup>1</sup> / <sub>4</sub> | 22            | 32 <sup>7</sup> / <sub>8</sub> | 24 <sup>1</sup> / <sub>8</sub> / 31 <sup>3</sup> / <sub>4</sub> | 115                     |
| M-2-40L6DS   | 40        | 33        | 21                 | 18        | 32 <sup>1</sup> / <sub>8</sub> | 24            | 33 <sup>1</sup> / <sub>8</sub> | 24 <sup>1</sup> / <sub>8</sub> / 33 <sup>3</sup> / <sub>8</sub> | 121                     |
| M-1-50L6DS** | 47        | 39        | 21                 | 18        | 31 <sup>3</sup> / <sub>4</sub> | 24            | 33 <sup>1</sup> / <sub>8</sub> | 24 <sup>1</sup> / <sub>8</sub> / 31 <sup>3</sup> / <sub>4</sub> | 140                     |
| M-2-50L6DS   | 47        | 39        | 21                 | 18        | 32 <sup>1</sup> / <sub>8</sub> | 26            | 33 <sup>1</sup> / <sub>8</sub> | 24 <sup>1</sup> / <sub>8</sub> / 33 <sup>3</sup> / <sub>8</sub> | 143                     |

| Model Number | Capacity |  | Recovery 50°C Rise |  | A Floor to Heater Top | B Jacket Dia. | C Floor to Water Conn. | D Floor to T&P Conn. | Approx. Shipping Weight |
|--------------|----------|--|--------------------|--|-----------------------|---------------|------------------------|----------------------|-------------------------|
|              | Liters   |  | Liters/Hour        |  | mm.                   | mm.           | mm.                    | mm.                  | kg.                     |
| M-1-20L6DS†  | 72       |  | 76                 |  | 629                   | 457           | 660                    | 489 / 632            | 26                      |
| M-1-30L6DS** | 114      |  | 76                 |  | 756                   | 508           | 787                    | 610 / 746            | 39                      |
| M-2-30L6DS   | 114      |  | 76                 |  | 762                   | 559           | 787                    | 613 / 794            | 44                      |
| M-1-40L6DS** | 151      |  | 76                 |  | 794                   | 559           | 835                    | 613 / 806            | 52                      |
| M-2-40L6DS   | 151      |  | 76                 |  | 816                   | 610           | 841                    | 613 / 848            | 55                      |
| M-1-50L6DS** | 178      |  | 76                 |  | 794                   | 610           | 841                    | 613 / 806            | 64                      |
| M-2-50L6DS   | 178      |  | 76                 |  | 816                   | 660           | 841                    | 613 / 848            | 65                      |

\*\*Models include supplied insulation jacket.

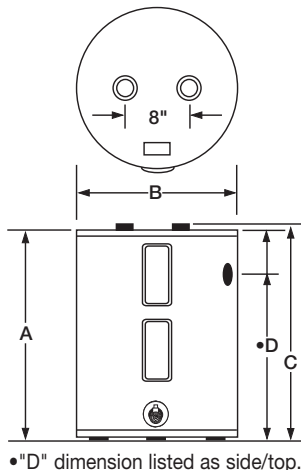
For 10 year models, change suffix "6" to "10".

For single element models change suffix "D" to "S".

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

•Models feature optional top T&P location and must be specified when ordering.

†Exempt from ASHRAE 90.1b (current standard).



•"D" dimension listed as side/top.

| Wattage | Recovery ▲<br>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 | 19  | 15  |
| 5000W   | 34                                    | 26 | 23 | 21  | 17  |
| 5500W   | 38                                    | 29 | 25 | 23  | 19  |
| 6000W   | 41                                    | 31 | 28 | 25  | 21  |

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

| Wattage Limitations for 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  |

| Wattage Limitations for Non-Simultaneous Operation | Voltage |      |      |      |      |
|----------------------------------------------------|---------|------|------|------|------|
|                                                    | 120V    | 208V | 240V | 277V | 480V |
| 1500W / 1500W                                      | yes     | yes  | yes  | yes  | yes  |
| 2000W / 2000W                                      | yes     | yes  | yes  | yes  | yes  |
| 2500W / 2500W                                      | yes     | yes  | yes  | yes  | yes  |
| 3000W / 3000W                                      | yes     | 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      | yes  | yes  | no   | no   |
| 6000W / 6000W                                      | no      | yes  | yes  | yes  | yes  |

### General

All models ETL listed. These heaters are wired inter-locking (Non-Simultaneous, Single Phase)

240V with two 4500W elements, unless otherwise specified.

All water and electrical connections are 3/4" NPT (19mm).

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.

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