

## ElectriFLEX MD™ (Medium Duty) Commercial Electric Water Heater



Photo is of  
E32-50S-3

### Bradford White ElectriFLEX MD™ Electric Models Feature:

- **Fully Automatic Controls**—Designed to provide outlet water at a thermostatically controlled temperature greater than 180°F (82°C).
- **Direct Heat Transfer With Three Immersed INCOLOY® Elements**—Transfers heat directly and efficiently to the water. Screw-in style element.
- **Factory Installed Hydrojet® Sediment Reduction System**—Cold water inlet sediment build-up reducing device helps prevent sediment build up in the tank.
- **Vitraglas® Lining**—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).
- **Insulation System**—2" (51mm) Non-CFC foam insulation cover the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity.
- **Water Connections**—1¼" (32mm) NPT factory-installed true dielectric fittings extend water heater life and simplify water line connections.
- **Conversion Kits**—Design certified by ETL for field conversion. Conversion kits are available to convert any one model to a variety of voltages, kW inputs and phase. (kit part numbers on reverse side.)
- **Protective Magnesium Anode Rod**—Provides added protection against corrosion for long-term, trouble-free service.
- **Steel Tank**—Heavy gauge steel automatically formed, rolled and welded.
- **T&P Relief Valve**—Supplied.
- **Low Restrictive 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.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,666; 7,634,976; 5,660,165; 5,954,492; 6,056,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,684,821; 7,334,419; 7,866,168; 7,270,087; 7,007,748; 5,596,952; 6,142,216; 7,699,026; 5,341,770; 7,337,517; 7,665,211; 7,665,210; 7,063,132; 7,063,133; 7,559,293; 7,900,589; 5,943,984; 8,082,888; 5,988,117; 7,621,238; 7,650,859; 5,761,379; 7,409,925; 5,277,171; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,845; 2,504,824; 2,108,186; 2,143,031; 2,409,271; 2,548,958; 2,112,515; 2,476,685; 2,239,007; 2,092,105; 2,107,012. Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.

# Commercial Electric Water Heater

## ElectriFLEX MD™ Electric Models

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

Model Number	Nominal Gal. Capacity		Recovery at 100°F Rise*		A Floor to Heater Top	B Jacket Dia.	C Floor to Water Conn.	F Floor to T&P Conn.	G Floor to Top of Control Box in.	H Depth	C/L of Water Conn. in.	Water Conn. NPT	Approx. Shipping Weight
	U.S. Gal.	Imp. Gal.	U.S. GPH	Imp. GPH	in.	in.	in.	in.		in.		in.	lbs.
E32-50S-3	50	42	74	62	47 1/4	22	47 7/8	48 1/8	44 1/2	24 5/8	8	1 1/4	137
E32-80R-3	80	67	74	62	59 3/4	24	61	61 3/8	57	26 5/8	8	1 1/4	190
E32-120R-3	119	99	74	62	63	28 1/4	64 5/8	65	61 1/2	30 7/8	8	1 1/4	312

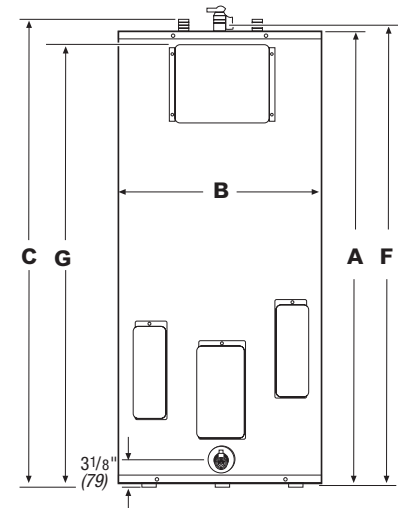
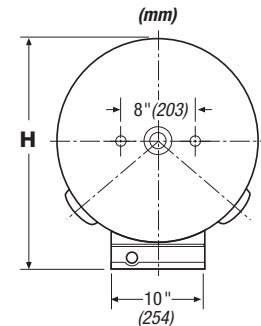
Model Number	Nominal Liter Capacity	Recovery at 56°C Rise*	A Floor to Heater Top	B Jacket Dia.	C Floor to Water Conn.	F Floor to T&P Conn.	G Floor to Top of Control Box mm.	H Depth	C/L of Water Conn.	Water Conn. NPT	Approx. Shipping Weight
		Liters/ Hour	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	kg.
E32-50S-3	189	280	1200	559	1216	1222	1130	625	203	32	62
E32-80R-3	303	280	1518	610	1550	1559	1448	676	203	32	86
E32-120R-3	450	280	1600	730	1641	1651	1562	784	203	32	142

All models are wired 240V, 3-phase, 18kW.  
 Other voltages, wattages and kW are available and must be specified when ordering.  
 For 5 year models, change suffix "3" to "5".  
 \* Based on 18kW operation. NSF Kits available.

Conversion Kit Table						
Required Total Heater kW	Each Element Wattage	Kit Part Numbers				
		208V	240V	380V	415V	480V
6	2000	415-43942-13	415-43942-07	N/A	N/A	415-43942-01
9	3000	415-43942-14	415-43942-08	N/A	N/A	415-43942-02
12	4000	415-43942-42	415-43942-09	415-43942-46	415-43942-54	415-43942-03
13.5	4500	415-43942-43	415-43942-10	415-43942-47	N/A	415-43942-37
15	5000	415-43942-44	415-43942-40	415-43942-48	N/A	415-43942-38
18	6000	415-43942-45*	415-43942-41	415-43942-49	N/A	415-43942-39

\* 415-43942-45 will require control box replacement (included in kit). Other wattages, wiring phase and kW are available and must be specified when ordering. 277 volt cannot be ordered as 3 phase operation.

Full Load Amperes - (Single Phase / Three Phase) and Recovery							GPH at °F Rise			LPH at °C Rise		
Input kW	208V	240V	277V	380V	415V	480V	40°F	100°F	140°F	23°C	56°C	78°C
6	28.8/16.7	25.0/14.4	21.7	9.1	8.3	12.5/7.2	62	25	18	235	95	68
9	43.2/25.0	37.5/21.7	32.5	13.7	12.5	18.8/10.8	93	37	27	352	140	102
12	57.7/33.3	50.0/28.9	43.3	18.2	16.7	25.0/14.4	124	50	35	469	189	132
13.5	64.9/37.5	56.3/32.5	48.7	20.5	18.8	28.1/16.2	139	56	40	526	212	151
15	72.1/41.6	62.5/36.1	54.2	22.8	20.9	31.3/18.0	155	62	44	587	235	167
18	86.5/50.0	75.0/43.3	65.0	27.3	25.0	37.5/21.7	186	74	53	704	280	201



### Sample Specification

Water heater shall be a Bradford White model with a rated storage capacity of not less than \_\_\_\_\_ gallons/liters, a minimum kW input of \_\_\_\_\_, and a minimum recovery of \_\_\_\_\_ GPH/LPH at 100°F (56°C) temperature rise. It shall be designed certified either with or without a separate storage tank. The tank shall be lined with Vitraglas® vitreous enamel. The tank should consist of three screw type elements with a combined maximum input of 18 kW. The tank shall have one magnesium anode rod. The units should be design certified by ETL for field conversions with specific kits available from the factory. The heater shall be insulated with not less than 2" (51mm) of Non-CFC foam. This water heater shall be equipped with an ASME rated T&P relief valve. The entire installation shall be made in compliance with state and local codes and ordinances.

### General

All models ETL listed. All potable water connections are 1/4" NPT (25mm) on 8" (203mm) centers. All electrical connections are 3/4" (19mm) NPT. 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.**

— BRADFORD WHITE IS —

**AMERICAN  
STRONG**

**Sales: 800-523-2931 ■ Fax 215-641-1612**  
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**Built to be the Best®**