

John Wood® commercial heavy-duty electric water heaters are an advanced line with the features contractors and engineers demand. Custom-built to order, choose from: 50, 80 and 119 US gallons, 6 to 54kW input and 208, 240 and 600 volts.

## Features

### Energy Savings

- Meets or exceeds ASHRAE Efficiency Standard 90.1 2007

### Designed for Performance

- Gold-plated, long-life elements provide superior scaling resistance
- Glasslined tank rated at 150 psi (working pressure)
- Factory-installed terminal block allows for quick connection
- Power circuit fusing protects elements and contactors from short circuits, overloading or line surges
- Three standard voltages available - convertible in the field from three-phase to single-phase (except 208/54kW models)
- JW-EI models feature an advanced electronic control - displays operational and diagnostic information and has economy mode option for off-peak or unoccupied periods
- ASME T&P relief valve included with unit for field installation
- Equipped with multiple anode rods for longer life
- Brass drain valve

### Serviceability

- Simplified circuitry, colour-coded for ease of service



JW-EI Model Shown Above



**ASME/CRN  
(Optional)**

### WARRANTY

**3 Year Limited Tank Warranty**

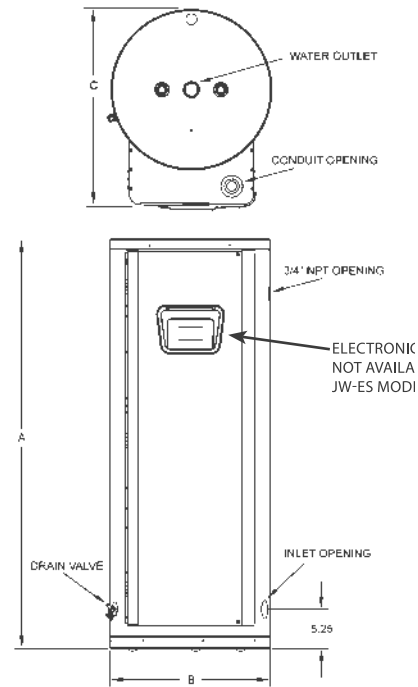
**1 Year Limited Parts Warranty**

Consult installation manual for terms and conditions or visit [www.johnwoodwaterheaters.com](http://www.johnwoodwaterheaters.com) for more information.

RECOVERY													
Input		Temperature Rise											
kW	BTU/h	40°F (22°C)		60°F (33°C)		80°F (44°C)		100°F (56°C)		120°F (67°C)		140°F (78°C)	
		GPH	LPH	GPH	LPH	GPH	LPH	GPH	LPH	GPH	LPH	GPH	LPH
6	20,478	62	233	41	155	31	116	25	93	21	78	18	66
9	30,717	92	349	62	233	46	174	37	140	31	116	26	100
12	40,956	123	465	82	310	61	233	49	186	41	155	35	133
13.5	46,075	138	523	92	349	69	262	55	209	46	174	40	150
15	51,195	154	582	102	388	77	291	61	233	51	194	44	166
18	61,434	184	698	123	465	92	349	74	279	61	233	53	199
24	81,912	246	930	164	620	123	465	98	372	82	310	70	266
27	92,151	276	1047	185	609	138	523	111	410	92	340	79	299
30	102,390	307	1163	205	775	154	582	123	465	102	388	88	332
36	122,868	369	1396	246	930	184	698	148	556	123	465	105	399
40.5	136,226	418	1570	277	1047	208	785	166	628	138	582	119	450
45	153,585	461	1745	307	1163	230	872	184	698	154	582	132	498
54	184,302	554	2094	359	1396	277	1047	221	837	185	696	158	598

#### CONFIGURING YOUR MODEL

1. Select thermostat Note: Immersion thermostat is required for 180°F (82°C) sanitizing applications.	Surface (ES) or Immersion (EI)
2. Select capacity required (USG)	50 80 119
3. Select input (kW)	6-54
4. Select voltage (600 Volt available in 3 Ph only)	208, 240 or 600*
5. Select phase	1 or 3*
Example: JW-EI-80-450-240-1 is an 74 U.S. Gallon, 45 kW, 240 volt, 1 phase model with an Immersion Thermostat.	



\*Note: 600 Volt configurations are only available as 3 Phase;  
 JW-EI 208V 54kW not available as 1 Phase

#### DIMENSIONS

Model	Capacity	Installation Height	Tank Diameter	Overall Depth	Inlet / Outlet (NPT)	Approx. Shipping Weight
	USG (L)	A in (cm)	B in (cm)	C in (cm)	in (cm)	lb (kg)
JW-E(S/I)-50	50 (189)	55 3/4 (142)	21 3/4 (55)	27 (69)	1 1/4 (3.2)	265 (120)
JW-E(S/I)-80	80 (303)	60 1/4 (153)	25 1/2 (65)	31 (79)	1 1/4 (3.2)	280 (127)
JW-E(S/I)-119	119 (450)	62 1/4 (158)	29 1/2 (75)	35 (89)	1 1/4 (3.2)	390 (177)

#### ELECTRICAL CHARACTERISTICS

kW Input	Model Numbers Tank Capacity in Gallons			Number of Elements	Element Wattage	Full Load Current in Amperes				
	50	80	119			Single Phase		Three Phase		
						208 Volts	240 Volts	208 Volts	240 Volts	600 Volts
6	JW-E(S/I)-50-060	JW-E(S/I)-80-060	JW-E(S/I)-119-060	3	2000	29	25	17	15	6
9	JW-E(S/I)-50-090	JW-E(S/I)-80-090	JW-E(S/I)-119-090	3	3000	43	38	25	22	9
12	JW-E(S/I)-50-120	JW-E(S/I)-80-120	JW-E(S/I)-119-120	3	4000	58	50	33	29	12
13.5	JW-E(S/I)-50-135	JW-E(S/I)-80-135	JW-E(S/I)-119-135	3	4500	65	56	38	33	13
15	JW-E(S/I)-50-150	JW-E(S/I)-80-150	JW-E(S/I)-119-150	3	5000	72	63	42	36	14
18	JW-E(S/I)-50-180	JW-E(S/I)-80-180	JW-E(S/I)-119-180	3 †	6000	87	75	50	43	17
24	JW-E(S/I)-50-240	JW-E(S/I)-80-240	JW-E(S/I)-119-240	6	4000	115	100	67	58	23
27	JW-E(S/I)-50-270	JW-E(S/I)-80-270	JW-E(S/I)-119-270	6	4500	130	113	75	65	26
30	JW-E(S/I)-50-300	JW-E(S/I)-80-300	JW-E(S/I)-119-300	6	5000	144	125	83	72	29
36	JW-E(S/I)-50-360	JW-E(S/I)-80-360	JW-E(S/I)-119-360	6 †	6000	173	150	100	87	35
40.5	JW-E(S/I)-50-405	JW-E(S/I)-80-405	JW-E(S/I)-119-405	9	4500	195	169	112	97	39
45	JW-E(S/I)-50-450	JW-E(S/I)-80-450	JW-E(S/I)-119-450	9	5000	216	188	125	108	43
54	JW-E(S/I)-50-540	JW-E(S/I)-80-540	JW-E(S/I)-119-540	9	6000	N/A	225	150	130	52

† JW-ES 208V models use 3 additional elements