## BOCK Makes Available a Complete Line of Electric Water Heaters to Service Your Electric Needs

- 50/80/120 ASME gallon capacities
- 6 to 54 kW
- 380, 415 and 600 V for Canada and International



## BOCK Point of Use Electric Water Heaters

- 6/12/19/30/50 gallon capacities
- 1.5 to 6.0 kW
- Suspension platform accessory
- Leak sensor and shutoff valve accessory



nDurance™

## To Learn More About BOCK Electric Products

- Visit bockwaterheaters.com to locate your nearest BOCK Sales Representative
- Contact your BOCK Regional Manager
- Or call 1-800-794-2491 and ask for Customer Service

BOCK™ WATER HEATERS

*Exceptional Products*
*100% Employee Owned*
*Exceptional Customer and Technical Support*

***bockwaterheaters.com*** | ***1-800-794-2491***

MADE IN THE **USA**

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Doc 80065
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NEW

BOCK™ WATER HEATERS

# Heavy Duty Digital Electric Water Heaters

**Five-Year Limited Tank Warranty**
*- The Industry's Finest*

- Inputs from 13.5 to 54kW
- 50/80/119 gallon capacities
- Digital control system with LED diagnostics readout
  - Temperature settings and status
  - Immersion thermostat offers superior setpoint accuracy
- Meets or exceeds ASHRAE 90.1
- Thickest steel in the industry for longest durability
- Porcelain glass lining for greatest tank protection to harsh chemicals
- Dual cold inlets for ease of installation and replacement
- Incoloy elements for superior corrosion resistance
- UL/cUL listed to UL 1453
- UL listed to NSF 5
- Exceeds DOE standby loss requirement
  - 3" foam insulation
- UL/cUL Certified Conversion Kits available




Made in the USA

ELECTRITHERM™

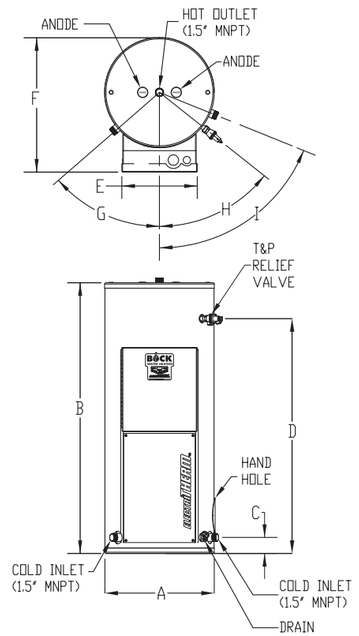
*BUILT LIKE A BOCK*

# Heavy Duty Digital Electric Water Heaters

## Dimensions and Capacities

| Model | Nominal Storage Capacity gallons (liters) | Actual Storage Capacity gallons (liters) | A inches (cm) | B inches (cm) | C inches (cm) | D inches (cm) | E inches (cm) | F inches (cm) | G degrees | H degrees | I degrees | Shipping Weight lbs (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CE050-*# | 50 (189) | 46 (174) | 24.00 (61) | 49.70 (126) | 3.54 (9) | 41.91 (106) | 17.84 (45) | 29.89 (76) | 58 | 57 | 92 | 273 (124) |
| CE080-*# | 80 (303) | 76 (288) | 26.00 (66) | 64.50 (164) | 3.81 (10) | 55.94 (142) | 17.84 (45) | 32.00 (81) | 54 | 53 | 72 | 395 (179) |
| CE119-*# | 119 (450) | 108 (409) | 30.00 (76) | 64.82 (165) | 3.79 (10) | 55.91 (142) | 17.84 (45) | 36.80 (93) | 50 | 41 | 57 | 521 (236) |

* Denotes input (kW) with a number (1-9) – See ordering Heavy Duty Electric table.
# Denotes voltage (V) with a letter (A-D) – See ordering Heavy Duty Electric table.




## Recovery Rate

| Input (kW) | Input (BTU/hr) | Number of Elements | Element Wattage (kW) | Recovery (GPH & LPH) at Temperature Rise (°F & °C) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | °F | 40 | 60 | 80 | 100 | 120 | 140 |
| | | | | °C | 22.2 | 33.3 | 44.4 | 55.6 | 66.7 | 77.8 |
| 13.5 | 46,062 | 3 | 4.5 | GPH | 135 | 90 | 68 | 54 | 45 | 39 |
| | | | | LPH | 513 | 342 | 256 | 205 | 171 | 147 |
| 15.0 | 51,180 | 3 | 5.0 | GPH | 151 | 100 | 75 | 60 | 50 | 43 |
| | | | | LPH | 570 | 380 | 285 | 228 | 190 | 163 |
| 18.0 | 61,416 | 3 | 6.0 | GPH | 181 | 120 | 90 | 72 | 60 | 52 |
| | | | | LPH | 684 | 456 | 342 | 274 | 228 | 195 |
| 24.0 | 81,888 | 6 | 4.0 | GPH | 241 | 161 | 120 | 96 | 80 | 69 |
| | | | | LPH | 912 | 608 | 456 | 365 | 304 | 260 |
| 27.0 | 92,124 | 6 | 4.5 | GPH | 271 | 181 | 135 | 108 | 90 | 77 |
| | | | | LPH | 1026 | 684 | 513 | 410 | 342 | 293 |
| 30.0 | 102,360 | 6 | 5.0 | GPH | 301 | 201 | 151 | 120 | 100 | 86 |
| | | | | LPH | 1140 | 760 | 570 | 456 | 380 | 326 |
| 36.0 | 122,832 | 9 | 4.0 | GPH | 361 | 241 | 181 | 145 | 120 | 103 |
| | | | | LPH | 1368 | 912 | 684 | 547 | 456 | 391 |
| 45.0 | 153,540 | 9 | 5.0 | GPH | 452 | 301 | 226 | 181 | 151 | 129 |
| | | | | LPH | 1709 | 1140 | 855 | 684 | 570 | 488 |
| 54.0 | 184,248 | 9 | 6.0 | GPH | 542 | 361 | 271 | 217 | 181 | 155 |
| | | | | LPH | 2051 | 1368 | 1026 | 821 | 684 | 586 |

## Amperage/Overcurrent Protection

| Input (kW) | 208 V | | | | 240 V | | | | 277 V | | 480 V | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 ϕ | | 3 ϕ | | 1 ϕ | | 3 ϕ | | 1 ϕ | | 1 ϕ | | 3 ϕ | |
| | Full Load Current (Amps) | Overcurrent Protection* (Amps) | Full Load Current (Amps) | Overcurrent Protection* (Amps) | Full Load Current (Amps) | Overcurrent Protection* (Amps) | Full Load Current (Amps) | Overcurrent Protection* (Amps) | Full Load Current (Amps) | Overcurrent Protection* (Amps) | Full Load Current (Amps) | Overcurrent Protection* (Amps) | Full Load Current (Amps) | Overcurrent Protection* (Amps) |
| 13.5 | 64.9 | 90 | 37.5 | 50 | 56.2 | 80 | 32.5 | 45 | 48.7 | 70 | 28.1 | 40 | 16.2 | 25 |
| 15.0 | 72.1 | 100 | 41.6 | 60 | 62.5 | 80 | 36.1 | 50 | 54.1 | 70 | 31.2 | 40 | 18 | 25 |
| 18.0 | 86.5 | 110 | 50 | 70 | 75 | 100 | 43.4 | 60 | 64 | 80 | 37.5 | 50 | 21.6 | 30 |
| 24.0 | 115.4 | 150 | 66.7 | 90 | 100 | 125 | 57.8 | 80 | 86.6 | 110 | 50 | 70 | 28.9 | 40 |
| 27.0 | 129.8 | 175 | 75 | 100 | 112.5 | 150 | 65 | 90 | 97.4 | 125 | 56.2 | 80 | 32.5 | 45 |
| 30.0 | 144.2 | 200 | 83.3 | 110 | 125 | 175 | 72.2 | 100 | 108.3 | 150 | 62.5 | 80 | 36.1 | 50 |
| 36.0 | 173 | 225 | 100 | 125 | 150 | 200 | 86.7 | 110 | 129.9 | 175 | 75 | 100 | 43.3 | 60 |
| 45.0 | 216.3 | 300 | 125 | 175 | 187.5 | 250 | 108.3 | 150 | 162.4 | 225 | 93.7 | 125 | 54.1 | 70 |
| 54.0 | n/a | n/a | 150 | 200 | 225 | 300 | 130 | 175 | 194.9 | 250 | 112.5 | 150 | 65 | 90 |

* Denotes recommended values, always follow local codes.

## Ordering Heavy Duty Electric (SKU#):

| | kW | | | | | | | | | Voltage | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tank Size | 13.5 | 15.0 | 18.0 | 24.0 | 27.0 | 30.0 | 36.0 | 45.0 | 54.0 | 208 | 240 | 277 | 480 |
| 050 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D |
| 080 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D |
| 119 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D |

**To Order:** Choose your tank Size (050/080/119), your kW (1-9), your Voltage (A-D).
**Example:** an 80 gallon, 18.0 kW, 240 volt unit would be ordered as **SKU# 0803B**.
**Example:** an 119 gallon, 27.0 kW, 480 volt unit would be ordered as **SKU# 1195D**.

**Note: All heaters ship 3 phase, can be field converted to 1 phase.**

## Ordering Conversion Kits (SKU#): Same kit can be used for 50/80/119 gallon units.

| | kW | | | | | | | | | Voltage | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Prefix | 13.5 | 15.0 | 18.0 | 24.0 | 27.0 | 30.0 | 36.0 | 45.0 | 54.0 | 208 | 240 | 277 | 480 |
| 263 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D |

**To Order:** For field conversion kits, order the kW and voltage required.
**Example:** a 18.0 kW kit with 480 voltage, would be ordered as a **SKU# 2633D**.
**Example:** a 13.5 kW kit with 277 voltage, would be ordered as **SKU# 2631C** and if converting to 277V, requires separate transformer to be ordered.

Kits contain elements (3, 6, 9), conversion labeling, conversion manual and fuses.

**Note: Total number of elements cannot change, i.e. 3 element heater cannot be converted to 6 or 9 elements.**

**Ordering Transformer:** If converting to/from 277V, transformer must be purchased separately.

| 277V | 208/240/480V |
|---|---|
| SKU# 20502 | SKU# 20500 |



**Dielectric Fittings:** Factory Installed
**T&P Valve:** Factory Installed
**Brass Drain Valve:** Factory Installed
**Relief Valve Opening:** 1.0"
**Hand-hole Cleanout Opening:** Standard
**Pressures (all):** Working Pressure, 150 psi; Testing Pressure, 300 psi
**Clearance:** UL/cUL listed for zero clearance to combustible materials. Recommended service clearances – 36" top, 4" sides (non-piping), 8" side (T&P relief valve), 24" front, 0" rear.

**Caution:** The recommended maximum hot water temperature setting for normal residential use is 120°F. Bock recommends a tempering valve or anti-scald valve be installed and used according to the manufacturer's directions to prevent scalding.