



HTP • 272 Duchaine Blvd, New Bedford, MA 02745 • www.htproducts.com

Medium Duty Commercial Three Element Electric Water Heaters

| | |
|-----------------------------------|--------------------|
| Job Name: | Location: |
| Engineer: | Wholesaler: |
| Mechanical Contractor: | Notes: |
| Model Number: | |
| Electrical Specifications: | |

Electric Water Heater Models

- Ships Wired for Single Phase, Simultaneous Operation
- Example Model Number: EVC080C3W135
- Available in 80, 100, and 115 gallon capacities
- Available in 208, 240, 277, and 480 Volt Models

Construction

- 316L stainless steel tank tolerates high temperatures and offers superior corrosion resistance
- Super-insulated for energy efficiency and minimal heat loss
- Outer jacket features attractive stainless steel appearance
- Water connections on the top of the water heater ease installation
- Top hot water outlet draws the hottest water from the tank
- Top cold water inlet with dip tube directs cold water to the lower heating element, minimizing the mixing of cold and heated water and providing long draws of hot water
- 3/4" inlet and outlet nipples constructed of durable brass
- Terminal block eases field wiring connections and installation

Long Life Electric Elements / Thermostat High Limit Control

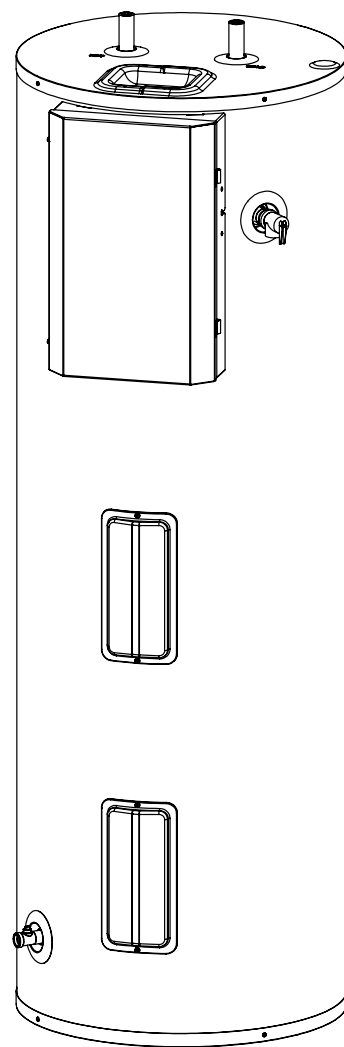
- Highest quality elements in the industry increase corrosion resistance, reducing the chance of element burnout and providing longer service life than conventional elements
- Immersed elements allow maximum recovery efficiency and direct, 98% efficient heat transfer
- Adjustable surface mounted thermostats provide years of reliable, trouble-free water temperature control
- Fully automatic high limit controls provide overheat protection - manual reset cutoff

Additional Features

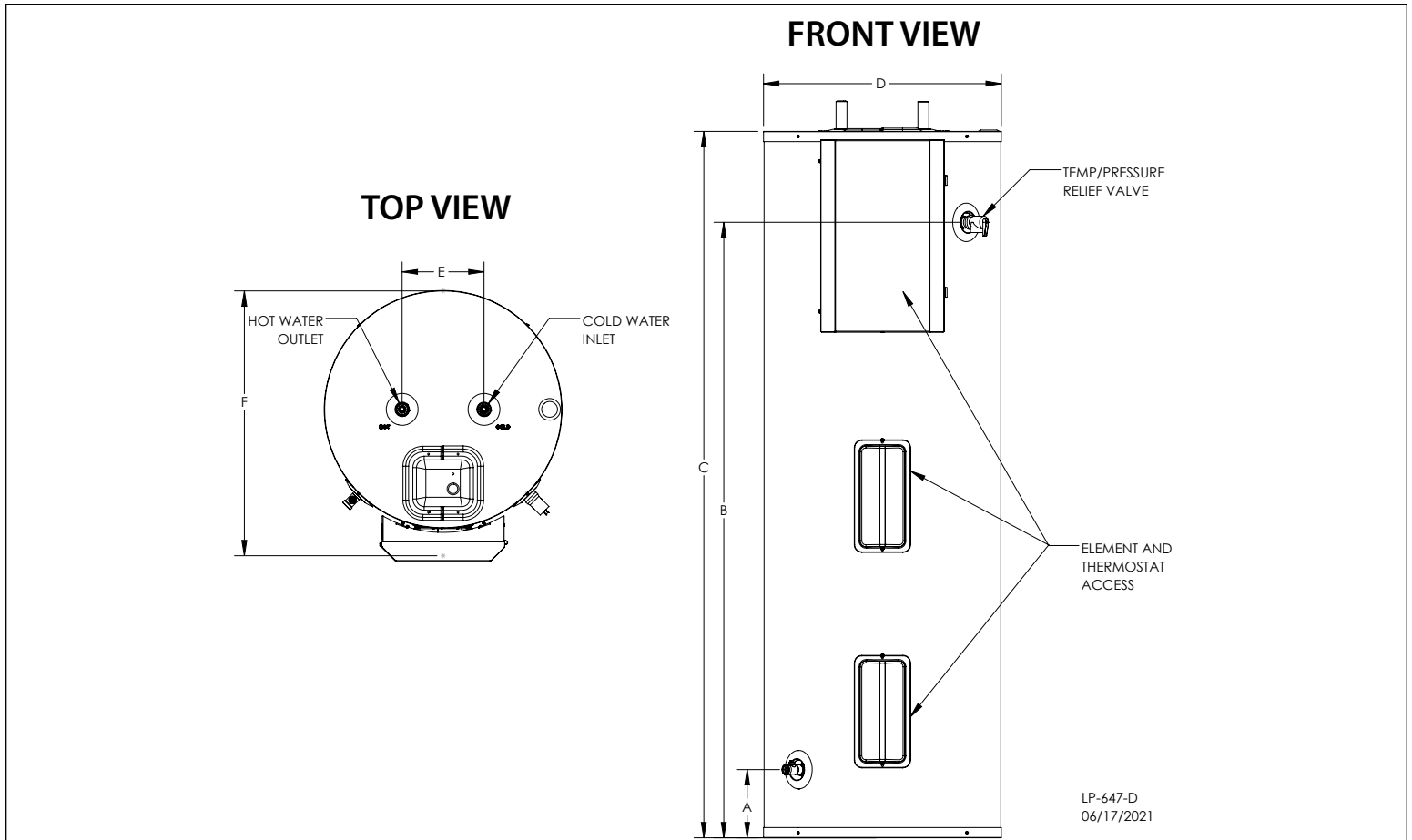
- Extended Limited Warranty if registered online - Extends coverage against inner tank leakage from the date of installation - One (1) year coverage on component parts
- Included ASME rated Temperature and Pressure Relief Valve
- Included Brass Drain Valve

Certifications and Ratings Efficiency

- Low Standby Loss
- ETL Design Certified to meet UL 1453 Standard for Electric Booster and Commercial Storage Tank Water Heaters
- Certified to NSF Standard 5 - Water Heaters, Hot Water Supply Boilers, and Heat Recovery Equipment
- North Carolina Code compliant models available
- Lead Free compliant per the Safe Drinking Water Act, Section 1417
- Meets or exceeds ANSI requirements and tested according to DOE procedures
- Meets or exceeds the energy efficiency requirements of NAECA, ASHRAE Standard 90, ICE code, and all state energy performance criteria
- Exceeds energy efficiency codes of all states, including California Energy Commission (CEC)



NOTE: HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.



| Specifications and Dimensions | | | | | | | | | | Water Temperature Ratings | | |
|-------------------------------|------------------|--------|-----|-----|---------|----|-----|-------------------|-----------------------------|---------------------------|----------------------|-------------------|
| Models | Storage Capacity | A | B | C | D | E | F | Hot / Cold Inlets | Shipping Weight (Lbs. Est.) | Min. Delivered Temp. | Max. Delivered Temp. | High Temp. Limit |
| 080 | 80 | 6 1/2" | 60" | 69" | 23 1/4" | 8" | 26" | 3/4" NPT | 165 | 135°F (57.2 C) | 181°F (82.8 C) | 200°F (93.3 C) |
| 100 | 100 | 7 1/4" | 52" | 61" | 27" | | 30" | | 220 | | | |
| 115 | 115 | | 60" | 69" | | | | | 240 | | | |

Table 1 - Specifications and Dimensions

| Gallons | # Elements | Input Wattage | 208 | 240 | 277 | 480 |
|--------------|------------|---------------|---------|---------|---------|---------|
| 80, 100, 115 | 3 | 12,500 | B3W125N | NO | NO | NO |
| | | 13,500 | B3W135N | C3W135N | | E3W135N |
| | | 14,000 | NO | NO | D3W140N | NO |
| | | 15,000 | | C3W150N | D3W150N | E3W150N |
| | | 16,000 | | NO | D3W160N | NO |
| | | 16,500 | | C3W165N | NO | E3W165N |
| | | 18,000 | | NO | D3W180N | E3W180N |

Table 2 - Element Kit Part Numbers

| Total Input (Kw) | # of Elements | Single Element Wattage | Full Load Current In Amperes | | | | | | | | # of T-Stats | # of Fuses | # of Fuse Holders |
|---------------------|------------------|------------------------------|------------------------------|----|-------|----|-------|----|-------|----|-----------------|---------------|----------------------|
| | | | 208V | | 240V | | 277V | | 480V | | | | |
| | | | Phase | | Phase | | Phase | | Phase | | | | |
| | | | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | | | |
| 12.5 | 3 | 4.2 | 60 | 35 | - | - | - | - | - | - | 3 | 6 | 2 |
| 13.5 | | 4.5 | 65 | 38 | 57 | 33 | - | - | 29 | 17 | | | |
| 14 | | 4.7 | - | - | - | - | 51 | 30 | - | - | | | |
| 15 | | 5 | - | - | 63 | 36 | 55 | 32 | 32 | 18 | | | |
| 16 | | 5.3 | - | - | - | - | 58 | 34 | - | - | | | |
| 16.5 | | 5.5 | - | - | 69 | 40 | - | - | 35 | 20 | | | |
| 18 | | 6 | - | - | - | - | 65 | 38 | 38 | 22 | | | |

Table 3 - Electrical Specifications

| Input (Watts) | Input (BTU/Hr.) | Units | Recovery in U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at Various Temperature Rises | | | | | | | | | | | | |
|------------------|--------------------|--------|--|------|------|------|------|------|------|------|------|------|------|------|------|
| | | Deg. F | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| | | Deg. C | 11.1 | 16.7 | 22.2 | 27.8 | 33.3 | 38.9 | 44.4 | 50.0 | 55.6 | 61.1 | 66.7 | 72.2 | 77.8 |
| 12500 | 42651 | GPH | 258 | 172 | 129 | 103 | 86 | 74 | 65 | 57 | 52 | 47 | 43 | 40 | 37 |
| | | LPH | 978 | 652 | 489 | 391 | 326 | 279 | 244 | 217 | 196 | 178 | 163 | 150 | 140 |
| 13000 | 44357 | GPH | 269 | 179 | 134 | 107 | 90 | 77 | 67 | 60 | 54 | 49 | 45 | 41 | 38 |
| | | LPH | 1017 | 678 | 508 | 407 | 339 | 290 | 254 | 226 | 203 | 185 | 169 | 156 | 145 |
| 13500 | 46063 | GPH | 279 | 186 | 139 | 112 | 93 | 80 | 70 | 62 | 56 | 51 | 46 | 43 | 40 |
| | | LPH | 1056 | 704 | 528 | 422 | 352 | 302 | 264 | 235 | 211 | 192 | 176 | 162 | 151 |
| 14000 | 47770 | GPH | 289 | 193 | 145 | 116 | 96 | 83 | 72 | 64 | 58 | 53 | 48 | 45 | 41 |
| | | LPH | 1095 | 730 | 547 | 438 | 365 | 313 | 274 | 243 | 219 | 199 | 182 | 168 | 156 |
| 14500 | 49476 | GPH | 300 | 200 | 150 | 120 | 100 | 86 | 75 | 67 | 60 | 54 | 50 | 46 | 43 |
| | | LPH | 1134 | 756 | 567 | 454 | 378 | 324 | 284 | 252 | 227 | 206 | 189 | 174 | 162 |
| 15000 | 51182 | GPH | 310 | 207 | 155 | 124 | 103 | 89 | 77 | 69 | 62 | 56 | 52 | 48 | 44 |
| | | LPH | 1173 | 782 | 587 | 469 | 391 | 335 | 293 | 261 | 235 | 213 | 196 | 180 | 168 |
| 15500 | 52888 | GPH | 320 | 213 | 160 | 128 | 107 | 91 | 80 | 71 | 64 | 58 | 53 | 49 | 46 |
| | | LPH | 1212 | 808 | 606 | 485 | 404 | 346 | 303 | 269 | 242 | 220 | 202 | 187 | 173 |
| 16000 | 54594 | GPH | 331 | 220 | 165 | 132 | 110 | 94 | 83 | 73 | 66 | 60 | 55 | 51 | 47 |
| | | LPH | 1251 | 834 | 626 | 501 | 417 | 358 | 313 | 278 | 250 | 228 | 209 | 193 | 179 |
| 16500 | 56300 | GPH | 341 | 227 | 170 | 136 | 114 | 97 | 85 | 76 | 68 | 62 | 57 | 52 | 49 |
| | | LPH | 1290 | 860 | 645 | 516 | 430 | 369 | 323 | 287 | 258 | 235 | 215 | 199 | 184 |
| 17000 | 58006 | GPH | 351 | 234 | 176 | 140 | 117 | 100 | 88 | 78 | 70 | 64 | 59 | 54 | 50 |
| | | LPH | 1330 | 886 | 665 | 532 | 443 | 380 | 332 | 295 | 266 | 242 | 222 | 205 | 190 |
| 17500 | 59712 | GPH | 362 | 241 | 181 | 145 | 121 | 103 | 90 | 80 | 72 | 66 | 60 | 56 | 52 |
| | | LPH | 1369 | 912 | 684 | 547 | 456 | 391 | 342 | 304 | 274 | 249 | 228 | 211 | 196 |
| 18000 | 61418 | GPH | 372 | 248 | 186 | 149 | 124 | 106 | 93 | 83 | 74 | 68 | 62 | 57 | 53 |
| | | LPH | 1408 | 939 | 704 | 563 | 469 | 402 | 352 | 313 | 282 | 256 | 235 | 217 | 201 |

Table 4 - Recovery Rates / Capacities

Typical Specifications

The water heater shall be an HTP model # _____ with a _____ gallon storage capacity, an input of _____ kw (BTU), a recovery rate of _____ GPH at 100°F (56°C) temperature rise and be equipped for 240 volts, single phase, simultaneous operation.

The tank shall be constructed of 316L stainless steel, have a working pressure of 150 PSI (1,034 kPA) and test pressure of 300 PSI. The water heater shall be design certified by ETL to meet the UL 1453 Standard for Electric Booster and Commercial Storage Tank Water Heaters. These water heaters shall be supplied with ¾" NPT brass inlet and outlet connections with built-in heat traps and a full port brass drain valve.

The water heater shall be equipped with an adjustable surface mounted thermostat with manual reset high limit safety control, and a terminal block for field wire connections. All water heaters will be shipped with an ASME Rated temperature and pressure relief valve.

Water heaters shall be covered by an extended limited warranty against inner tank leakage when registered online with HTP. See product warranty for details. The surfaces of these products contacted by consumable water contain less than 0.25% lead by weight, as required by the Safe Drinking Water Act, Section 1417.

Maximum unit dimensions shall be length _____ inches, width _____ inches and height _____ inches. Approximate unit shipping weight shall be _____ pounds.