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Medium Duty Commercial Three Element Electric Water Heaters

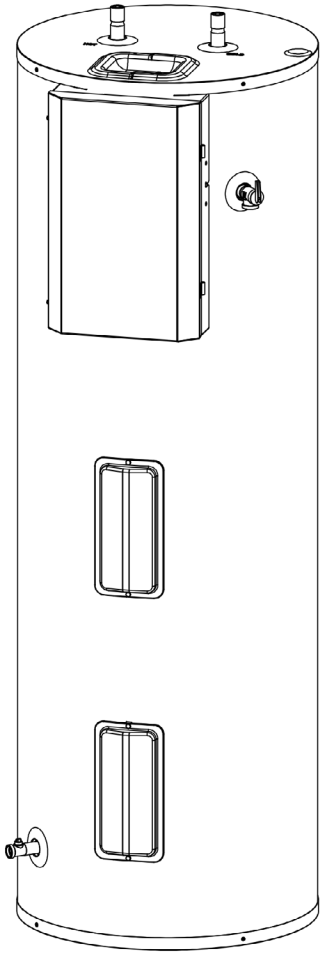
Job Name:	**Location:**
Engineer:	**Wholesaler:**
Mechanical Contractor:	**Notes:**
Model Number:	
Electrical Specifications:	

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

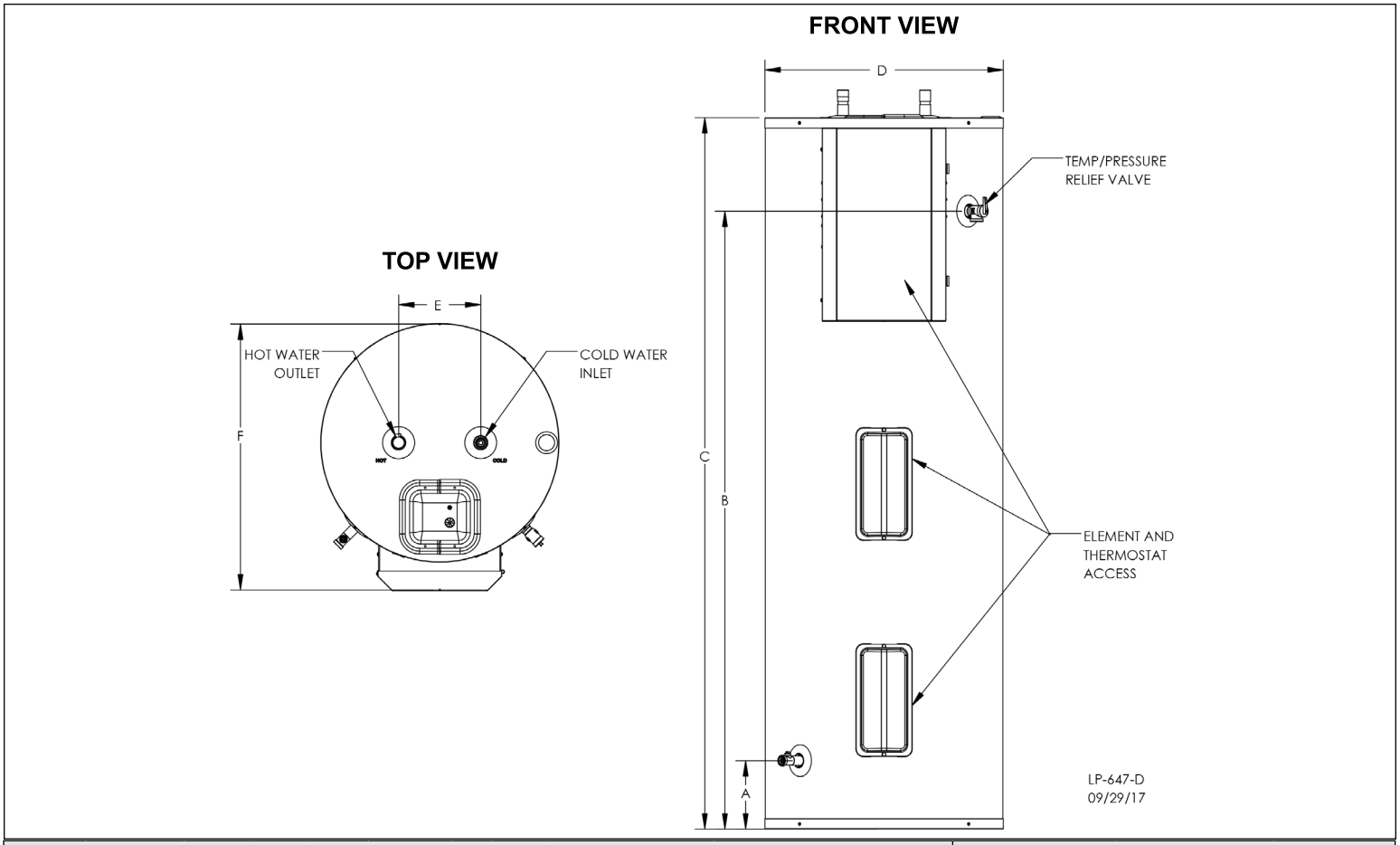
Additional Features

- 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 Phase		240V Phase		277V Phase		480V 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 100ºF (56ºC) 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.