



Submittal Sheet for Medium Duty Commercial Electric Water Heaters

JOB NAME:

LOCATION:

ARCH./ENGR.:

WHOLESALER:

MECH. CONTRACTOR:

MODEL NUMBER:

ELECTRICAL SPECIFICATIONS:

NOTES:

Medium Duty Models

- Available in 48, 73, and 119 gallon capacities
- Standard Voltages: 208V, 240V, 277V, and 480V
- Single phase operation
- Blue Cobalt Glass-Lined Steel Tank provides the best coating available against corrosion – Certified to a test pressure of 300 PSI and working pressure of 150 PSI
- 2” of urethane insulation offers superior insulation, minimal heat loss, and energy efficiency
- 1 ½” NPT dielectric inlet and outlet connections for all models – prevents excessive mixing of heated water, resulting in improved tank draw
- Dual High Quality 1” diameter Magnesium Anodes positioned parallel provide superior coverage and protection against the corrosive effects of water and extend tank life

Ease of Installation

- Factory Installed Wiring eliminates the need for splicing and taping wires
- Factory Installed Terminal Block simplifies installation. Just bring the service to the junction box and connect to the block.
- Heavy-Duty Contactors installed to meet all anticipated loads and provide years of trouble-free service
- Single Panel Junction Box is equipped with a hinged door to allow easy access to all electrical components. The panel comes with a variety of knockout sizes for conduit ranging from ½” to 2” to ease connections of all wiring sizes
- Heaters are wired in single phase

Electric Elements

- All models equipped with CSA approved bolt-on resistor type immersion elements. Elements can be easily replaced without special tools, resulting in low maintenance costs
- Direct Immersion allows maximum recovery efficiency (up to 98%)
- Twist-Lock Flanges ease element replacement
- Element Panel allows direct access to the elements without opening the junction box
- Adjustable surface mounted thermostat(s) provide years of reliable, trouble-free service at the desired water temperature

Certifications and Ratings

Efficiency

- Tested below the maximum allowable standby loss levels of current ASHRAE standards in accordance to ANSI test procedures
- Exceeds energy efficiency codes of all states, including California Energy Commission (CEC)

Safety and Construction

- Design certified to meet UL standard 1453 as electric booster and commercial storage tank water heaters
- Lead Free Compliant, as required by the Safe Drinking Water Act, Section 1417

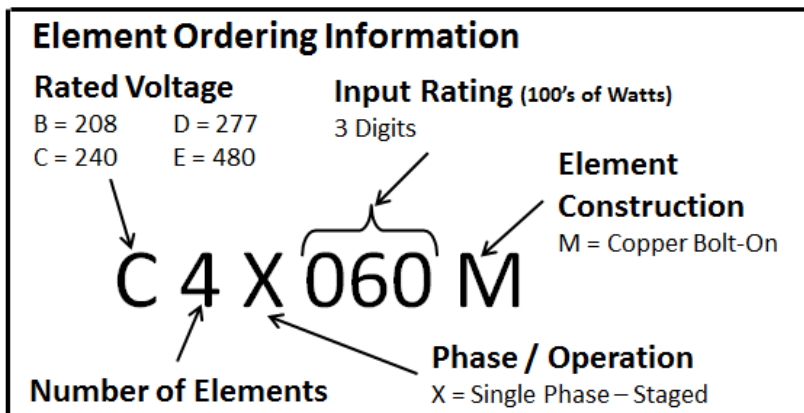
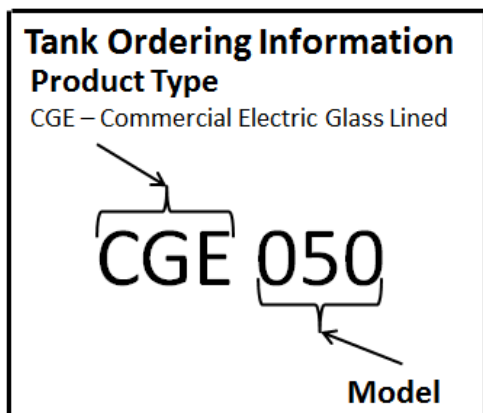
Additional Features

- Extended Limited Warranty if registered online – 5 years coverage against inner tank leakage from the date of installation – 1 year coverage on component parts
- Standard Limited Warranty – 3 years coverage against inner tank leakage from the date of installation – 1 year coverage on component parts
- ASME rated Temperature and Pressure Relief Valve
- Installed Full Port Brass Drain Valve

Model	# Elements	Available Wattage	Voltage				Phase
			208	240	277	480	
CGE050 CGE080 CGE119	4	6,000 9,000 10,000 12,000	X N/A		X		1

X - Single Phase Staged Operation

Stock Code Guide - Sample Ordering Information



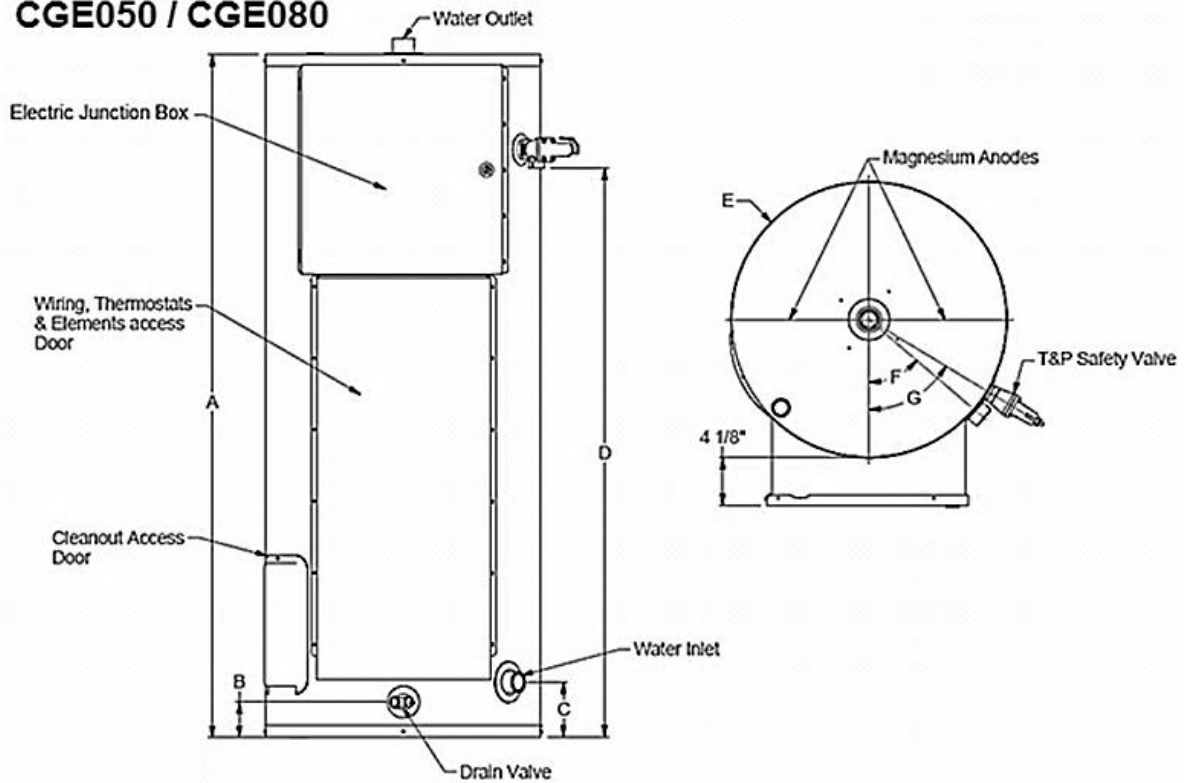
See HTP's Heavy Duty Models for 600 Volt and Three Phase Operation

STANDARD HTP STOCKING UNITS						
MODEL	# Elements	BASE MODEL (kW)	GALLON CAPACITY	AVAILABLE WATTAGE (kW)	STANDARD VOLTAGE	PHASE
CGE050C4X060M	4	6	48	6,9,10,12	240	1
CGE080C4X060M			73			
CGE119C4X060M			119			

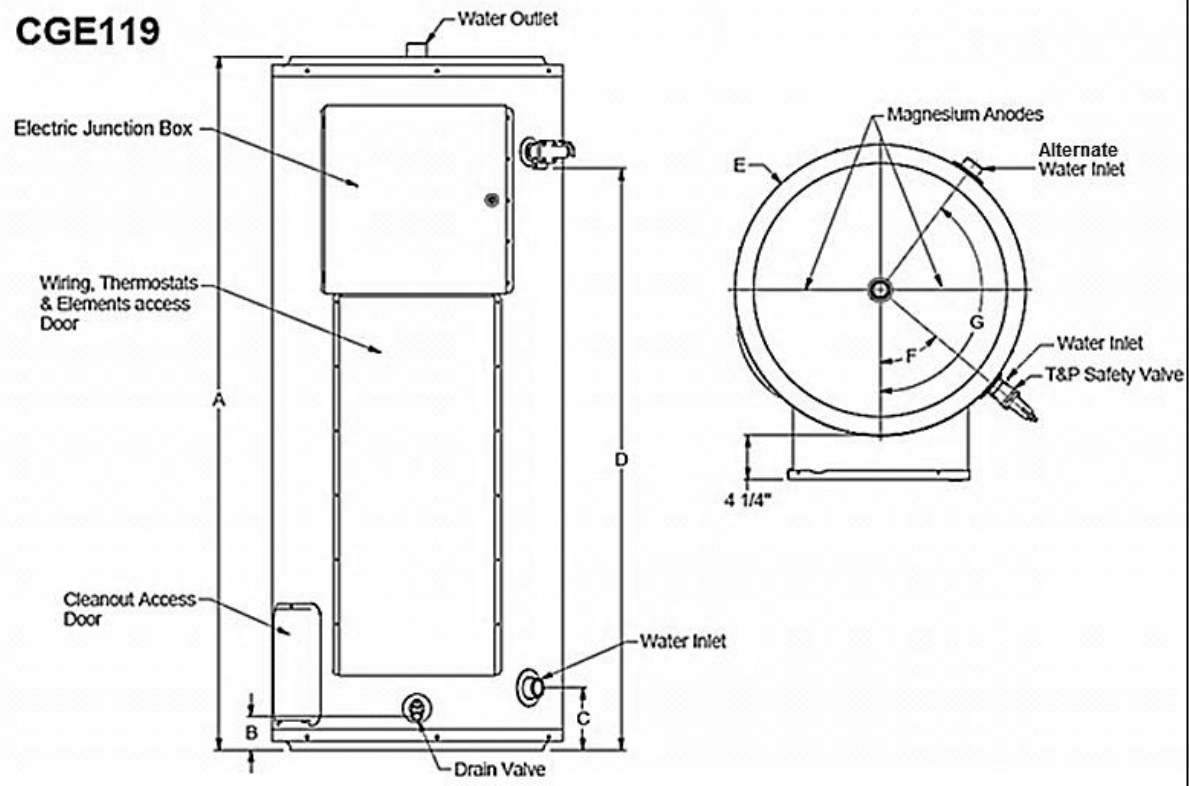
Element Kit Part Numbers						
Total Input (kW)	# Elements	Element Input (kW)	Voltage			
			208	240	277	480
6	4	3	B4X060M	C4X060M	D4X060M	E4X060M
9		4.5	B4X090M	C4X090M	D4X090M	E4X090M
10		5	B4X100M	C4X100M	D4X100M	E4X100M
12		6	-	C4X120M	D4X120M	E4X120M

					FULL LOAD CURRENT IN AMPS			
INPUT	ELEMENTS		# OF T'STATS	HIGH LIMIT	208 volts	240 volts	277 volts	480 volts
	kW	#			INPUT (kW)	Phase	Phase	Phase
6	4		2	2	1	1	1	1
6					30	25	22	13
9					44	38	33	19
10					48	42	37	21
12					-	50	43	25

CGE050 / CGE080



CGE119



SPECIFICATIONS AND DIMENSIONS (INCHES)								SHIPPING WEIGHT (EST)		WATER TEMPERATURE RATINGS					
										MIN. DELIVERED TEMP		MAX. DELIVERED TEMP		HIGH TEMP LIMIT	
MODEL	A (Height)	B	C	D	E (Diameter)	F	G	LBS	KG	°F	°C	°F	°C	°F	°C
CGE050	49 1/8	3 1/8	4 7/8	40 1/4	22	55°	65.4°	230	104	120	48.8	160	71.1	180	82.2
CGE080	59 5/8	3 1/8	4 7/8	49 3/4	24	50°	59°	380	172						
CGE119	67 1/4	3 3/8	6	56 3/8	28 3/16	143°	50°	423	192						

Recovery Table for Commercial Electric Water Heater (US Gallons per Hour)

INPUT		Temperature Rises (°F)										
kW	BTU	40	50	60	70	80	90	100	110	120	130	140
6	20,486	61	51	41	36	30	27	24	21	20	19	18
9	30,709	92	74	61	53	46	41	36	33	30	28	26
10	34,144	102	85	68	60	51	46	41	38	34	31	29
12	40,973	123	103	82	72	61	55	49	45	41	38	35