



**Lochinvar**<sup>®</sup>  
HIGH EFFICIENCY BOILERS & WATER HEATERS

**COMPACT ASME HI-POWER<sup>®</sup>  
WATER HEATER  
Submittal Sheet**

**HPC-Sub-04**

**COMPACT ASME HI-POWER<sup>®</sup> COMMERCIAL ELECTRIC WATER HEATERS**

**JOB NAME** \_\_\_\_\_  
**LOCATION** \_\_\_\_\_  
**ENGINEER** \_\_\_\_\_  
**WHOLESALER** \_\_\_\_\_  
**MECH. CONTRACTOR** \_\_\_\_\_  
**MODEL NO.** \_\_\_\_\_  
**RECOVERY RATE IN GPH** \_\_\_\_\_ @ \_\_\_\_\_ °F RISE  
**GALLON CAPACITY** \_\_\_\_\_  
**VOLTAGE/PHASE** \_\_\_\_\_  
**KW** \_\_\_\_\_  
**NOTES**

**Standard Features**

- Meets ASHRAE Energy Efficiency Standards
  - ASME Code Construction HLW
  - 150 psi working pressure for 5 thru 50 gallon models.
  - 125 psi working pressure for 65 thru 120 gallon models.
  - Tank Saver Anode & Powered Anode
  - Low Watt Incoloy Heating Element
  - Energy Cut-Off
  - Low Water Cut Off
  - Enable / Disable Contacts
  - Night Setback
  - Internal Fusing
  - 180°F Operation Approved
  - ASME Temperature and Pressure Relief Valve
  - Non-CFC Foam Insulation
  - Hinged Access Door
  - Immersion Thermostats with Contactors
  - 3 Year Limited Tank Warranty
  - 1 Year Limited Parts Warranty
- (See warranty for details)

**Optional Equipment**

**Place an X in the box by all options that apply.**

- Alarm Horn
- High Water Pressure Limit Switch
- Low Water Pressure Limit Switch
- Temperature & Pressure Gauge
- 150 PSI Working Pressure
- 4" x 6" Handhole Cleanout
- Pilot Light & Switches
- Modulating Control

**\*Note:** T&P relief valve supplied, not factory mounted

# Dimensions & Specifications

Model Number	Gallon Capacity	Maximum kW	A	B	C	D	Water Conn.	Shipping Weight
CH(X)kW 005A	5	3	22"	16"	24"	4-1/4"	3/4"	82
CH(X)kW 010A	10	6	28-1/4"	18"	26"	5-1/4"	3/4"	116
CH(X)kW 020A	20	18	31-3/4"	22"	28"	5-3/4"	3/4"	145
CH(X)kW 030A	30	24	43-1/4"	22"	28"	5-3/4"	3/4"	218
CH(X)kW 040A	40	36	54-3/4"	22"	28"	5-3/4"	3/4"	245
CH(X)kW 050A	50	90	66-1/4"	22"	28"	5-3/4"	3/4"	291
CH(X)kW 065A	65	90	57-1/4"	26-1/2"	32-1/2"	11-1/2"	1-1/4"	344
CH(X)kW 080A	80	90	58-1/4"	28"	35"	12-1/2"	1-1/4"	406
CH(X)kW 100A	100	90	70-1/4"	28"	35"	12-1/2"	1-1/4"	419
CH(X)kW 120A	120	90	70-1/4"	30-1/4"	37"	12-1/2"	1-1/4"	453

NOTE: Allow 24" clearance from front access panel for service and maintenance.

## VOLTAGE SCHEDULE

T - 208V / 1 or 3 PH	3 to 24 kW	W - 277V / 1 PH	3 to 90 kW
J - 208V / 1 PH	30 to 45 kW	V - 480V / 1 PH	3 to 90 kW
K - 208V / 3 PH	30 to 90 kW	X - 480V / 3 PH	3 to 90 kW
P - 240V / 1 or 3 PH	3 to 54 kW	Y - 380V / 3 PH	3 to 90 kW
A - 240V / 1 PH	60 kW	Z - 415V / 3 PH	3 to 90 kW
B - 240V / 3 PH	60 to 90 kW	M - 575V / 3 PH	3 to 90 kW
		N - 600V / 3 PH	3 to 90 kW

## Amperage Table

kW	SINGLE PHASE				THREE PHASE		
	208V	240V	277V	480V	208V	240V	480V
3	14.4	12.5	10.8	6.3	8.3	7.2	3.6
6	28.8	25.0	21.7	12.5	16.7	14.4	7.2
9	43.3	37.5	32.5	18.8	25.0	21.7	10.8
12	57.7	50.0	43.3	25.0	33.3	28.9	14.4
15	72.1	62.5	54.2	31.3	41.6	36.1	18.0
18	86.5	75.0	65.0	37.5	50.0	43.3	21.7
24	115.4	100.0	86.6	50.0	66.6	57.7	28.9
30	144.2	125.0	108.3	62.5	83.3	72.2	36.1
36	173.1	150.0	130.0	75.0	99.9	86.6	43.3
45	216.3	187.5	162.5	93.8	124.9	108.3	54.1
54	N/A	225.0	194.9	112.5	149.9	129.9	65.0
60	N/A	250.0	216.6	125.0	166.5	144.3	72.2
75	N/A	N/A	N/A	156.3	208.2	180.4	90.2
90	N/A	N/A	N/A	187.5	249.8	216.5	108.3

Note: All ASME models with an amp draw in excess of 120 amps receive factory installed internal fusing.

## GPH Recovery Rate

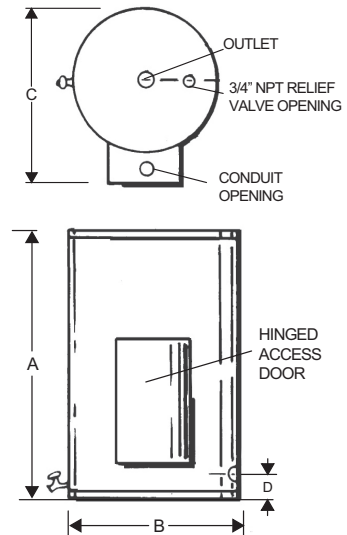
INPUT		Recovery Rate ( GPH @ °F Rise)											
kW	Btu/hr	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	120°F	130°F	140°F
3	10,239	41	31	34	20	17	15	13	12	11	10	10	9
6	20,478	82	62	49	41	35	31	27	25	22	21	19	18
9	30,717	123	92	74	62	53	46	41	37	34	31	28	26
12	40,956	164	123	98	82	70	61	55	49	45	41	38	35
15	51,195	205	154	123	102	88	77	68	61	56	51	47	44
18	61,434	246	184	148	123	105	92	82	74	67	62	57	53
24	81,912	328	246	197	164	140	123	109	98	90	82	76	70
30	102,390	410	308	246	205	176	154	137	123	112	103	95	88
36	122,868	492	369	295	246	211	184	164	148	134	123	113	105
45	153,585	615	461	369	307	263	230	205	184	168	154	142	132
54	184,302	738	554	443	359	316	277	246	221	201	185	170	158
60	204,780	819	615	492	410	351	307	273	246	223	205	189	176
75	255,975	1,025	768	615	512	439	384	341	307	279	256	236	219
90	307,170	1,229	922	738	615	527	461	410	369	335	307	284	263

## FOR EASE IN ORDERING BY MODEL NUMBER

C H X 36 040 A

COMPACT HI-POWER VOLTAGE KILOWATT GALON CAPACITY ASME

This heater is a Compact Hi-Power, 480 volt, 3 phase, 36 kW, 40 gallon water heater with ASME construction.



Note: Outlet connection for 5 thru 50 models 3/4" NPT. Outlet connection for 65 thru 120 models 1-1/4" NPT.



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