



Lochinvar®

HIGH EFFICIENCY BOILERS & WATER HEATERS

COMPACT ASME HI-POWER® COMMERCIAL WATER HEATER

Submittal Sheet

HPC-Sub-08

COMPACT ASME HI-POWER® COMMERCIAL ELECTRIC WATER HEATERS

Job Name: _____ Model No. _____ Gal. Cap. _____
Location: _____ Voltage/Phase _____ kW _____
Engineer: _____ Recovery Rate in GPH _____ @ _____ °F Rise
Agent/Wholesaler: _____ Equipment Tag(s): _____
Contractor: _____

NOTES:

Standard Features

- Meets ASHRAE Energy Efficiency Standards
- ASME Code Construction HLW
- 150 psi Working Pressure on All 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 (factory supplied, field installed)
- Non-CFC Foam Insulation
- Hinged Access Door
- Immersion Thermostats with Contactors
- See warranty for details:
 - 3 Year Limited Tank Warranty
 - 1 Year Limited Parts Warranty

Optional Equipment

Check the box by all options that apply:

- Alarm on Any Failure
- Temperature & Pressure Gauge
- 4" x 6" Handhole Cleanout
- Modbus/BACnet Communications
- Modulating Control *(not available for single element controls)*



Compact ASME Hi-Power® Commercial Electric Water Heater Dimensions & Specifications

Model Number	Gallon Capacity	Min kW	Max kW	A	B	C	D	Water Conn.	Shipping Weight
LCA-5(X)kW	5	3	3	22"	16"	24"	4-1/4"	3/4"	82
LCA-10(X)kW	10	3	6	28-1/4"	18"	26"	5-1/4"	3/4"	116
LCA-20(X)kW	20	3	18	31-3/4"	22"	28"	5-3/4"	3/4"	145
LCA-30(X)kW	30	12.3	24	43-1/4"	22"	28"	5-3/4"	3/4"	218
LCA-40(X)kW	40	12.3	36	54-3/4"	22"	28"	5-3/4"	3/4"	245
LCA-50(X)kW	50	12.3	90	66-1/4"	22"	28"	5-3/4"	3/4"	291
LCA-65(X)kW	65	12.3	90	57-1/4"	26-1/2"	32-1/2"	11-1/2"	1-1/4"	344
LCA-80(X)kW	80	12.3	90	58-1/4"	28"	35"	12-1/2"	1-1/4"	406
LCA-100(X)kW	100	12.3	90	70-1/4"	28"	35"	12-1/2"	1-1/4"	419
LCA-120(X)kW	120	12.3	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. 3, 6 and 9 kW is not available on 30 gallon models and larger.

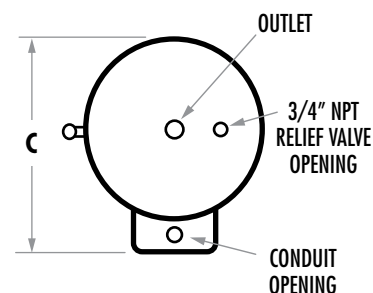
VOLTAGE SCHEDULE

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

FOR EASE IN ORDERING BY MODEL NUMBER

L	C	A	40	X	36
LOCHINVAR	COMPACT	ASME	GALLON CAP	VOLTAGE	KILOWATTS

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



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	21.2	12.5	16.7	14.4	7.2
9	43.3	37.5	32.5	18.8	25.0	21.7	10.8
12.3	59.1	51.2	44.4	25.6	34.1	29.6	14.8
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	166.7	145.0	72.0
75	N/A	N/A	N/A	156.0	208.4	181.0	90.0
90	N/A	N/A	N/A	188.0	250.0	217.0	108.0

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

GPH Recovery Rate

INPUT kW	Btu/hr	Recovery Rate (GPH @ °F Rise)											
		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	24	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
12.3	41,980	166	125	100	83	71	62	55	50	46	42	39	36
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	102	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	276	246	221	201	184	170	158
60	204,780	819	615	492	410	351	307	273	246	223	205	189	176
75	255,975	1025	768	615	512	439	384	341	307	279	256	236	219
90	307,170	1229	922	738	615	527	461	410	369	335	307	284	263

NOTES:

Outlet connection for 5 thru 50 models 3/4" NPT.

Outlet connection for 65 thru 120 models 1-1/4" NPT.

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



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