

Commercial  
**Light Duty**  
**Electric**  
 Water Heaters

JOB NAME \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 ENGINEER \_\_\_\_\_  
 MECH. CONTRACTOR \_\_\_\_\_  
 MODEL NO. \_\_\_\_\_  
 ELECTRIC TYPE \_\_\_\_\_  
 Btu/hr INPUT \_\_\_\_\_  
 RECOVERY RATE IN GPH \_\_\_\_\_ @ \_\_\_\_\_ °F RISE

NOTES

**Features**

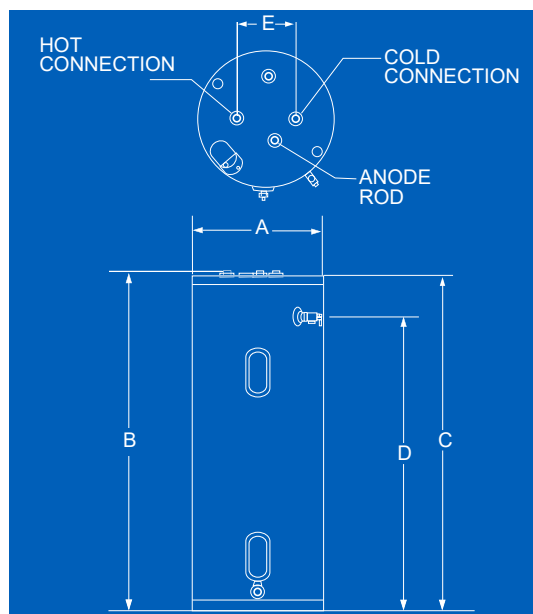
- **SURFACE MOUNT THERMOSTATS** – Fully automatic for temperature control. Factory installed manual reset energy cut-off prevents overheating.
- **DUAL HEATING ELEMENTS** – Dual screw-in heating elements transfer heat directly to water to conserve energy.
- **SELF-CLEANING** – Turbulence inducing cold water inlet-tube engineered to diminish hard water area sediment deposits.
- **INCOLOY ELEMENTS** – Are low watt density and installed into every model to operate more efficiently and last longer.
- **NON-CFC FOAM INSULATED** – Saves energy and reduces fuel costs by maximizing heat retention.
- **HEAVY GAUGE STEEL TANK** – For extra years of trouble-free service.
- **GLASS-LINED TANK** – Inner tank glass-lined with Dura-Glas™ and fired at 1600° F for optimum protection from the effects of corrosion.
- **MAGNESIUM ANODE ROD** – To protect tank life.
- **FACTORY INSTALLED DIELECTRIC HOT AND COLD WATER CONNECTIONS** – 3/4" NPT water connections to extend tank life and for easier installations.
- **BRASS DRAIN VALVE** – Durable to prevent unintentional breakage.
- **FACTORY INSTALLED HEAT TRAPS** – Reduces standby heat loss in water piping.
- **TEMPERATURE AND PRESSURE RELIEF VALVE** – Factory provided T & P Valve can be relocated from side to optional top opening.
- **CERTIFIED BY UNDER WRITERS LABORATORIES** – Listed to UL 174, meets or exceeds efficiency requirements of the Department of Energy, all models comply with NAECA requirements to meet or exceed ASHRAE Standard 90.1 b, National Appliance Energy Conservation Act, ANSI requirements, and tested in accordance with D.O.E. test procedures and all state energy efficiency standards.
- **FOUR YEAR LIMITED WARRANTY** – on inner glass-lined tank. One year limited warranty on all other component parts.
- **FIELD CONVERTIBLE** – Units are shipped from factory standard Three Phase, Non-Simultaneous and can be converted to Single Phase and / or simultaneous operation in the field.

# SPECIFICATIONS AND APPLICATION DATA

SPECIFICATIONS			DIMENSIONS IN INCHES						
MODEL NUMBER	GAL	JACKET DIAM*	FLOOR TO			WTR SPREAD	STANDARD	MAXIMUM KW	STANDARD SHIP WGT
			WATER CONN	TOP OF HEATER	SIDE T & P				
		A	B	C	D	E			
<b>TALL</b>									
LDN-CE-30T-AS	30	20 1/4	51	49 3/8	42	8	240	12	108
LDN-CE-40T-AS	40	22 1/4	52	50 1/2	42 3/5	8	240	12	133
LDN-CE-50T-AS	50	24 1/4	51 5/8	50 1/8	42	8	240	12	149
LD-CE-66T-AS	66	22 1/4	62	59 1/4	53	8	240	12	203
LD-CE-80T-AS	80	24 1/4	62 3/8	59 5/8	52 7/8	8	240	12	238
LD-CE-120T-AS	119	28 1/4	65 3/4	63	55 1/8	8	240	12	355
<b>LOW BOY</b>									
LDN-CE-30S-AS	30	24 1/4	35	33 1/2	25 3/8	8	240	12	128
LDN-CE-40S-AS	40	26 1/4	37 1/8	35 5/8	27	8	240	12	153
LDN-CE-50S-AS	50	28 1/4	37	35 1/2	26 1/3	8	240	12	164

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\*FOR BACK TO FRONT OF HEATER ADD 2 1/8" TO "A" TO ALLOW FOR UPPER DOOR DEPTH



For floor to optional Top T & P Outlet see dimension "C"



SINGLE PHASE FULL LOAD AMPERAGE DRAW					
ELEMENT WATTAGE	120 V	208 V	240 V	277 V	480 V
1500	12.5	7.2	6.3	5.4	3.1
2000	16.7	9.6	8.3	7.2	4.2
2500	20.8	12.0	10.4	9.0	5.2
3000	25.0	14.4	12.5	10.8	6.3
3500	N/A	16.8	14.6	12.6	7.3
4000	N/A	19.2	16.7	14.4	8.3
4500	N/A	21.6	18.8	16.2	9.4
5000	N/A	24.0	20.8	18.1	10.4
5500	N/A	N/A	22.9	19.9	11.5
6000	N/A	28.8	25.0	21.7	12.5
7000	N/A	33.7	29.2	25.3	14.6
8000	N/A	38.5	33.3	28.9	16.7
9000	N/A	43.3	37.5	32.5	18.8
10000	N/A	48.1	41.7	36.1	20.8
11000	N/A	N/A	45.8	39.7	22.9
12000	N/A	N/A	50.0	43.3	25.0

THREE PHASE FULL LOAD AMPERAGE DRAW						
ELEMENT WATTAGE	INTERLOCKING OPERATION All Terminals L1, L2 and L3			SIMULTANEOUS OPERATION Terminal L3 / Terminals L1 and L2		
	208 V	240 V	480 V	208 V	240 V	480 V
3000/3000	14.4	12.5	6.3	25.0/14.4	21.7/12.5	10.8/6.3
4000/4000	19.2	16.7	8.3	33.3/19.2	28.9/16.7	14.4/8.3
4500/4500	21.6	18.8	9.4	37.5/21.6	32.5/18.8	16.4/9.4
5000/5000	24.0	20.8	10.4	41.6/24.0	36.1/20.8	18/10.4
5500/5500	N/A	22.9	11.5	N/A	39.8/22.9	19.9/11.5
6000/6000	N/A	25	12.5	N/A	43.3/25.0	21.7/12.5

WATTS	GPH RECOVERY CAPACITIES						
	TEMPERATURE RISE						
	40° F	50° F	60° F	70° F	80° F	90° F	100° F
3000	31	25	20	18	15	14	12
3500	36	29	24	20	18	16	14
4000	41	33	27	23	20	18	16
4500	46	37	31	26	23	20	18
5000	51	41	34	29	26	23	20
5500	56	45	38	32	28	25	23
6000	61	49	41	35	31	27	25
7000	72	57	48	41	36	32	29
8000	82	66	55	47	41	36	33
9000	92	74	61	53	46	41	37
10000	102	82	68	59	51	46	41
11000	113	90	75	64	56	50	45
12000	123	98	82	70	61	55	49

**American Standard**<sup>®</sup>  
WATER HEATERS

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