

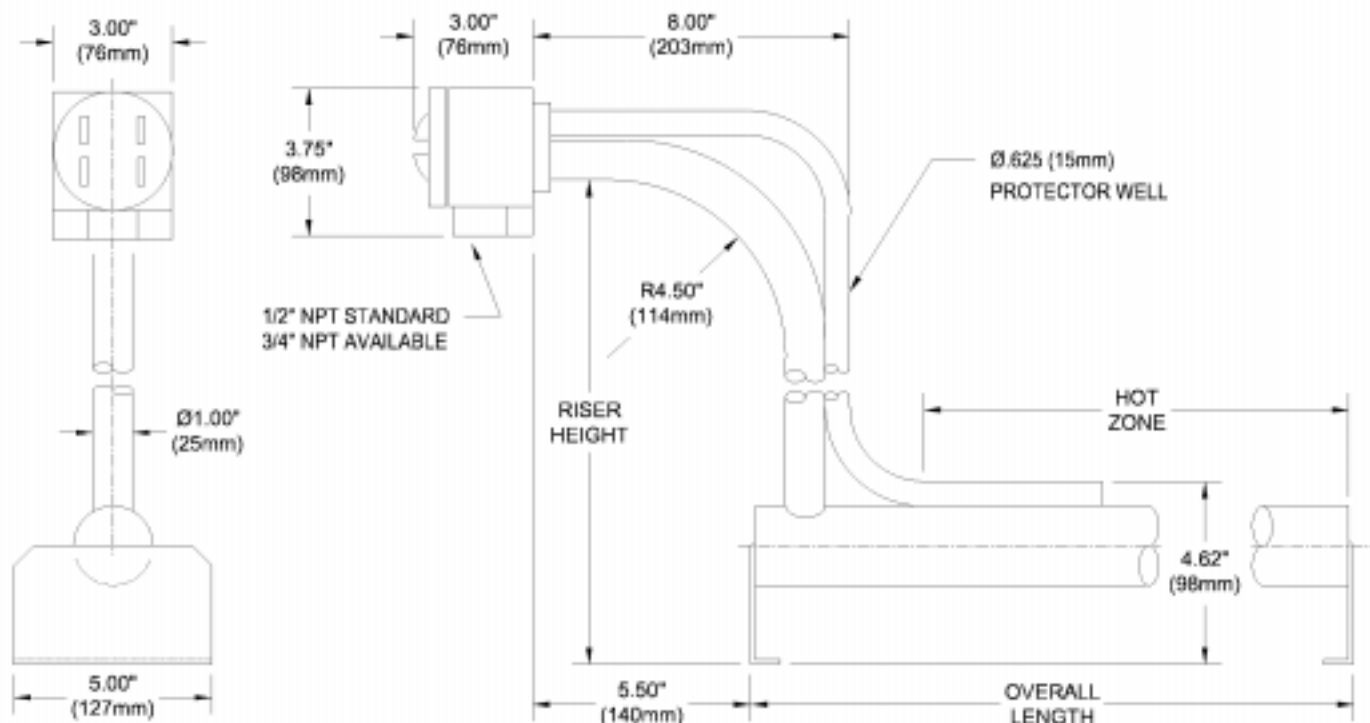
L SERIES, METAL L-SHAPED HEATERS									
WATTS	VOLTS	HORIZ. In./(mm)	STD.	STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./(kg)	VERT.* In./(mm)
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1000	120	13	15	LP1113-R*-**	LF1113-R*-**	LS1113-R*-**	LT1113-R*-**	10	
	240	(330)	(380)	LP1213-R*-**	LF1213-R*-**	LS1213-R*-**	LT1213-R*-**	(4.5)	
2000	120	17	19	LP2117-R*-**	LF2117-R*-**	LS2117-R*-**	LT2117-R*-**	11	
	240	(430)	(485)	LP2217-R*-**	LF2217-R*-**	LS2217-R*-**	LT2217-R*-**	(5)	
	480			LP2417-R*-**	LF2417-R*-**	LS2417-R*-**	LT2417-R*-**		
3000	240	22	25	LP3222-R*-**	LF3222-R*-**	LS3222-R*-**	LT3222-R*-**	12	
	480	(560)	(635)	LP3422-R*-**	LF3422-R*-**	LS3422-R*-**	LT3422-R*-**	(5.5)	
4000	240	26	25	LP4226-R*-**	LF4226-R*-**	LS4226-R*-**	LT4226-R*-**	13	
	480	(660)	(635)	LP4426-R*-**	LF4426-R*-**	LS4426-R*-**	LT4426-R*-**	(6)	
5000	240	31	37	LP5231-R*-**	LF5231-R*-**	LS5231-R*-**	LT5231-R*-**	14	
	480	(790)	(940)	LP5431-R*-**	LF5431-R*-**	LS5431-R*-**	LT5431-R*-**	(6.5)	
6000	240	36	50	LP6236-R*-**	LF6236-R*-**	LS6236-R*-**	LT6236-R*-**	15	
	480	(915)	(1270)	LP6436-R*-**	LF6436-R*-**	LS6436-R*-**	LT6436-R*-**	(7)	
8000	240	44	50	LP8244-R*-**	LF8244-R*-**	LS8244-R*-**	LT8244-R*-**	18	
	480	(1120)	(1270)	LP8444-R*-**	LF8444-R*-**	LS8444-R*-**	LT8444-R*-**	(8)	
9000	240	50	50	LP9250-R*-**	LF9250-R*-**	LS9250-R*-**	LT9250-R*-**	20	
	480	(1270)	(1270)	LP9450-R*-**	LF9450-R*-**	LS9450-R*-**	LT9450-R*-**	(9)	
10000	240	55	50	LP10255-R*-**	LF10255-R*-**	LS10255-R*-**	LT10255-R*-**	22	
	480	(1400)	(1270)	LP10455-R*-**	LF10455-R*-**	LS10455-R*-**	LT10455-R*-**	(10)	
12000	240	64	50	LP12264-R*-**	LF12264-R*-**	LS12264-R*-**	LT12264-R*-**	25	
	480	(1625)	(1270)	LP12464-R*-**	LF12464-R*-**	LS12464-R*-**	LT12464-R*-**	(11.5)	

\* Specify vertical length by adding height in inches after "R". Example: LS2217-R24-PLI.

## Product Features and Benefits:

- ◆ **SUPERIOR CHEMICAL RESISTANCE:** Materials available for use in most aqueous alkaline solutions, plating solutions, and rinse tanks. Check solution recommendation chart or with your chemical supplier for proper sheath material selection.
- ◆ **RUGGED CONSTRUCTION:** Heavy wall metal sheaths available in:
  - Steel.
  - 304 stainless steel.
  - 316 stainless steel.
  - Titanium.
- ◆ **OUTSTANDING PERFORMANCE:** Watt densities of 35 watts per square inch (5.4 w/cm<sup>2</sup>) ensure long service life. Two-inch sludge legs standard.
- ◆ **EVEN HEATING:** Bottom design for even heating and varying liquid levels.
- ◆ **CORROSION RESISTANT HEAD:** Vapor tight, flame retardant polypropylene terminal enclosure with 3-foot (.9m) flexible PVC liquid tight conduit.
- ◆ **SAFETY FEATURES:**
  - Grounded construction.
  - Thermal protector built in. Replaceable PLI fuse standard for solutions up to 180°F (82°C).
  - Non-floating construction.
- ◆ **CERTIFICATIONS:** UL (except steel sheath), CSA, and CE.
- ◆ **SIZES:** 1,000 watts to 12,000 watts.
- ◆ **VOLTAGES:** 120, 240 or 480 volts. 208, 380, 415, 600 and other voltages available. Single phase standard, three phase available.
- ◆ **OPTIONS AVAILABLE** (consult factory):
  - Replaceable thermal protectors:
    - PLIM: for solutions from 180°F (82°C) to 230°F (110°C).
    - PLIH: for solutions from 230°F (110°C) to 300°F (150°C).
  - Resettable thermal protectors:
    - PLII: for solutions up to 180°F (82°C).
    - PLIIM: for solutions from 180°F (82°C) to 230°F (110°C).
    - PLIIH: for solutions from 230°F (110°C) to 300°F (150°C).
  - Special configurations and vertical lengths.
  - Longer wire and conduit lengths.
  - Longer sludge legs.
  - Flexible risers. (Available with PLII thermal protectors only.)
  - Lower watt densities for highly viscous solutions.
  - Temperature and level controls sized to match the heater.

## DIMENSIONS



## SINGLE TUBE METAL L-SHAPED HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Horizontal Length	Vertical Length	Riser Option	Options	Type of Fuse	Wire and Conduit Length																		
	1 = 1000 2 = 2000 3 = 3000 4 = 4000 5 = 5000 6 = 6000 8 = 8000 9 = 9000 10 = 10000 12 = 12000	1 = 120 2 = 240 4 = 480 -208 = 208 -380 = 380 -415 = 415 -600 = 600	13 = 1kW 17 = 2kW 22 = 3kW 26 = 4kW 31 = 5kW 36 = 6kW 44 = 8kW 50 = 9kW 55 = 10kW 64 = 12kW	-R15 = 1kW -R19 = 2kW -R25 = 3kW -R25 = 4kW -R37 = 5kW -R50 = 6kW -R50 = 8kW -R50 = 9kW -R50 = 10kW -R50 = 12kW (custom lengths available) Ex: -R21 = 21" -FR = flex riser Ex: -FR21 = 21"				no designator = 36" length standard specify variations from standard Ex: -X84 = 84" wire and conduit																		
	LP = steel LF = 304 stainless steel LS = 316 stainless steel LT = titanium						<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Replaceable Fuse</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">-PLI (std)</td> <td>for solutions up to 180°F</td> </tr> <tr> <td>-PLIM</td> <td>for 180° - 230°F solutions</td> </tr> <tr> <td>-PLIH</td> <td>for 230° - 300°F solutions</td> </tr> <tr> <th colspan="2" style="text-align: center;">Resettable Fuse</th> </tr> <tr> <td colspan="2" style="text-align: center;">(additional control components required)</td> </tr> <tr> <td>-PLII</td> <td>for solutions up to 180°F</td> </tr> <tr> <td>-PLIIM</td> <td>for 180° - 230°F solutions</td> </tr> <tr> <td>-PLIIH</td> <td>for 230° - 300°F solutions</td> </tr> </tbody> </table>	Replaceable Fuse		-PLI (std)	for solutions up to 180°F	-PLIM	for 180° - 230°F solutions	-PLIH	for 230° - 300°F solutions	Resettable Fuse		(additional control components required)		-PLII	for solutions up to 180°F	-PLIIM	for 180° - 230°F solutions	-PLIIH	for 230° - 300°F solutions	
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			no designator = 90° horizontal bend (standard) -S = straight riser					-X = any special configuration not called out in the part number (specify in clear text) no designator = single phase power (standard) -3 = three phase power																		

### ORDERING EXAMPLE:

LT4226-R20-PLII-X72

L-shaped, titanium, 4,000 watts, 240 volt, 26" horizontal, 20" vertical riser, PLII fuse, 72" wire and conduit.

**PROCESS  
TECHNOLOGY**