

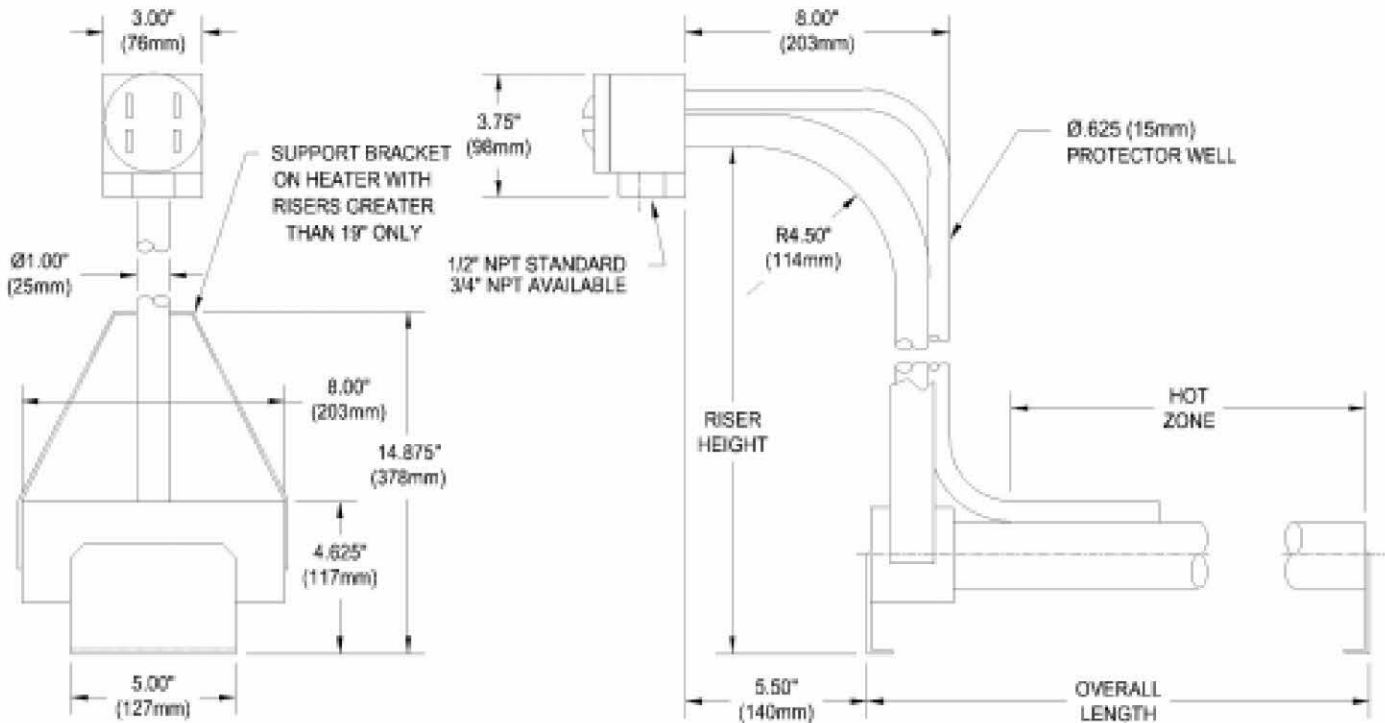
3L SERIES, TRIPLE METAL L-SHAPED HEATERS									
WATTS	VOLTS	STD.		STEEL	304 SS	316 SS	TITANIUM	SHIP WGT.	Lbs. / (kg)
		HORIZ. In. / (mm)	VERT. * In. / (mm)						
3000	240	13	15	3LP3213-R*-**	3LF3213-R*-**	3LS3213-R*-**	3LT3213-R*-**	30	
	480	(330)	(380)	3LP3413-R*-**	3LF3413-R*-**	3LS3413-R*-**	3LT3413-R*-**	(14)	
6000	240	17	37	3LP6217-R*-**	3LF6217-R*-**	3LS6217-R*-**	3LT6217-R*-**	33	
	480	(430)	(940)	3LP6417-R*-**	3LF6417-R*-**	3LS6417-R*-**	3LT6417-R*-**	(15)	
9000	240	22	37	3LP9222-R*-**	3LF9222-R*-**	3LS9222-R*-**	3LT9222-R*-**	36	
	480	(560)	(940)	3LP9422-R*-**	3LF9422-R*-**	3LS9422-R*-**	3LT9422-R*-**	(16.5)	
12000	240	26	37	3LP12226-R*-**	3LF12226-R*-**	3LS12226-R*-**	3LT12226-R*-**	39	
	480	(660)	(940)	3LP12426-R*-**	3LF12426-R*-**	3LS12426-R*-**	3LT12426-R*-**	(18)	
15000	240	31	37	3LP15231-R*-**	3LF15231-R*-**	3LS15231-R*-**	3LT15231-R*-**	42	
	480	(790)	(940)	3LP15431-R*-**	3LF15431-R*-**	3LS15431-R*-**	3LT15431-R*-**	(19)	
18000	240	36	50	3LP18236-R*-**	3LF18236-R*-**	3LS18236-R*-**	3LT18236-R*-**	45	
	480	(915)	(1270)	3LP18436-R*-**	3LF18436-R*-**	3LS18436-R*-**	3LT18436-R*-**	(20.5)	
24000	240	44	50	3LP24244-R*-**	3LF24244-R*-**	3LS24244-R*-**	3LT24244-R*-**	54	
	480	(1120)	(1270)	3LP24444-R*-**	3LF24444-R*-**	3LS24444-R*-**	3LT24444-R*-**	(24.5)	
27000	240	50	50	3LP27250-R*-**	3LF27250-R*-**	3LS27250-R*-**	3LT27250-R*-**	60	
	480	(1270)	(1270)	3LP27450-R*-**	3LF27450-R*-**	3LS27450-R*-**	3LT27450-R*-**	(27.5)	
30000	240	55	50	3LP30255-R*-**	3LF30255-R*-**	3LS30255-R*-**	3LT30255-R*-**	66	
	480	(1400)	(1270)	3LP30455-R*-**	3LF30455-R*-**	3LS30455-R*-**	3LT30455-R*-**	(30)	
36000	240	64	50	3LP36264-R*-**	3LF36264-R*-**	3LS36264-R*-**	3LT36264-R*-**	75	
	480	(1625)	(1270)	3LP36464-R*-**	3LF36464-R*-**	3LS36464-R*-**	3LT36464-R*-**	(34)	

\* Specify vertical length by adding height in inches after "-R". Example: 3LS6217-R39-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, other lengths available.
- ◆ **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:** 3,000 watts to 36,000 watts.
- ◆ **VOLTAGES:** 240 or 480 volts. 208, 380, 415, 600 and other voltages available. Three phase standard, single 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



## TRIPLE TUBE METAL L-SHAPED HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Horizontal Length (in.)	Vertical Length (in.)	Riser Option	Options	Type of Fuse	Wire and Conduit Length																		
	3 = 3000 6 = 6000 9 = 9000 12 = 12000 15 = 15000 18 = 18000 24 = 24000 27 = 27000 30 = 30000 36 = 36000	2 = 240 4 = 480 -208- = 208 -277- = 277 -380- = 380 -415- = 415 -600- = 600	13 = 3kW 17 = 6kW 22 = 9kW 26 = 12kW 31 = 15kW 36 = 18kW 44 = 24kW 50 = 27kW 55 = 30kW 64 = 36kW	-R15 = 3kW -R37 = 6kW -R37 = 9kW -R37 = 12kW -R37 = 15kW -R50 = 18kW -R50 = 24kW -R50 = 27kW -R50 = 30kW -R50 = 36kW (custom lengths available) Ex: -R21 = 21" -FR = flex riser Ex: -FR21 = 21"				no designator = 36" length standard specify variations from standard Ex: -X84 = 84"																		
	3LP = Steel 3LF = 304 Stainless Steel 3LS = 316 Stainless Steel 3LT = 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 = three phase power (standard) -1 = single phase power																			

### ORDERING EXAMPLE:

3LS12426-R50-PLIM-X72

Triple tube, L-shaped, 316 SS, 12,000 watts, 480 volt, 26" length, 50" vertical riser, PLIM fuse, 72" wire and conduit

