

| L SERIES, METAL L-SHAPED HEATERS | | | | | | | | |
|----------------------------------|-------|------------------|------------------|-------------|-------------|-------------|-------------|----------------------|
| WATTS | VOLTS | STD. | | STEEL | 304 SS | 316 SS | TITANIUM | SHIP WGT. Lbs./ (kg) |
| | | HORIZ. In./ (mm) | VERT.* In./ (mm) | | | | | |
| 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 | 480 | 64 | 50 | LP12464-R** | LF12464-R** | LS12464-R** | LT12464-R** | 25 |
| | | (1625) | (1270) | | | | | (11.5) |

* Specify vertical length by adding height in inches after "R". Example: LS2217-R24-P1.

Product Features and Benefits:

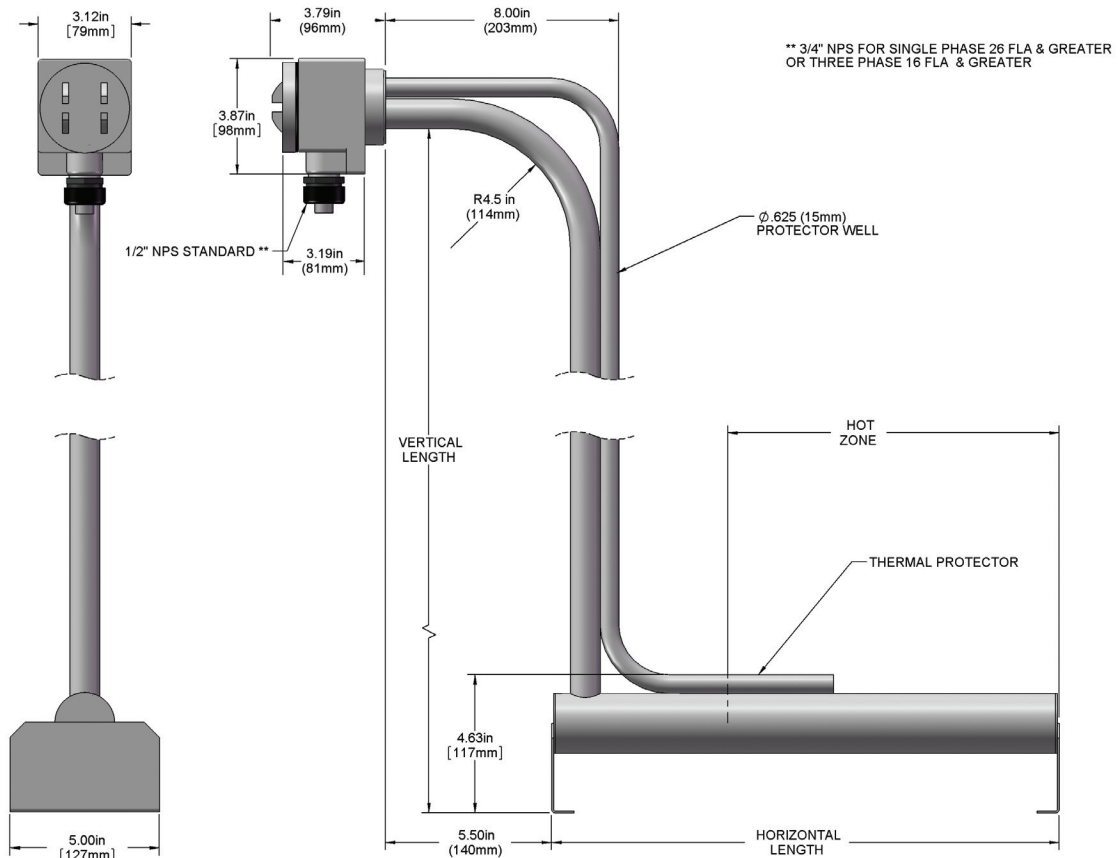
- ◆ **SUPERIOR CHEMICAL RESISTANCE:** Materials available for use in most aqueous alkaline solutions, plating solutions, and rinse tanks. Check solution recommendation chart or with your chemical supplier for proper sheath material selection.
- ◆ **RUGGED CONSTRUCTION:** Heavy wall metal sheaths available in:
 - Steel.
 - 304 stainless steel.
 - 316 stainless steel.
 - Titanium.
- ◆ **OUTSTANDING PERFORMANCE:** Watt densities of 35 watts per square inch (5.4 w/cm²) ensure long service life. Two-inch sludge legs standard.
- ◆ **EVEN HEATING:** Bottom design for even heating and varying liquid levels.
- ◆ **CORROSION RESISTANT HEAD:** Vapor resistant, flame retardant polypropylene terminal enclosure with 3-foot (.9m) flexible PVC liquid tight conduit.
- ◆ **SAFETY FEATURES:**
 - Grounded construction.
 - Thermal protector built in. Replaceable P1 protector standard for solutions up to 180°F (82°C).
 - Non-floating construction.
- ◆ **CERTIFICATIONS:** UL listed (except steel) to U.S. and Canadian safety requirements, and CE.
- ◆ **SIZES:** 1,000 watts to 12,000 watts.
- ◆ **VOLTAGES:** 120 to 600 volts. Single phase standard, three phase available.
- ◆ **OPTIONS AVAILABLE (consult factory):**
 - Replaceable thermal protectors:
 - P4: for solutions from 180°F (82°C) to 230°F (110°C).
 - Resettable thermal protectors:
 - P2: for solutions up to 180°F (82°C).
 - P6: for solutions from 180°F (82°C) to 230°F (110°C).
 - Special configurations and vertical lengths.
 - Longer wire and conduit lengths.
 - Longer sludge legs.
 - Flexible risers (available with P2 thermal protectors only).
 - Lower watt densities for highly viscous solutions.
 - Temperature and level controls sized to match the heater.

Your Distributor:

80 Metcalfe Street • Buffalo, NY 14206 U.S.A. • US/CN: 800-777-2436 • 716-856-2300 • Fax: 716-856-7115

www.cdibuffalo.com • E-mail: sales@cdibuffalo.com

DIMENSIONS



** 3/4" NPS FOR SINGLE PHASE 26 FLA & GREATER
OR THREE PHASE 16 FLA & GREATER

SINGLE TUBE METAL L-SHAPED HEATER ORDERING INFORMATION

| Series | Wattage | Voltage | Horizontal Length (in.) | Vertical Length (in.) | Riser Option | Options | Type of Protector | 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 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200 | 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" | | | | | | | | | | | | | | |
| | LP = steel LF = 304 stainless steel LS = 316 stainless steel LT = titanium | | | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Replaceable Protector</th> </tr> <tr> <td style="text-align: center;">-P1</td> <td style="text-align: center;">for solutions up to 180°F</td> </tr> <tr> <td style="text-align: center;">-P4</td> <td style="text-align: center;">for 180° - 220°F solutions</td> </tr> <tr> <th colspan="2" style="text-align: center;">Resettable Protector</th> </tr> <tr> <td colspan="2" style="text-align: center;">(additional control components required)</td> </tr> <tr> <td style="text-align: center;">-P2</td> <td style="text-align: center;">for solutions up to 180°F</td> </tr> <tr> <td style="text-align: center;">-P6</td> <td style="text-align: center;">for 180° - 220°F solutions</td> </tr> </table> | Replaceable Protector | | -P1 | for solutions up to 180°F | -P4 | for 180° - 220°F solutions | Resettable Protector | | (additional control components required) | | -P2 | for solutions up to 180°F | -P6 | for 180° - 220°F solutions | |
| Replaceable Protector | | | | | | | | | | | | | | | | | | | | | | |
| -P1 | for solutions up to 180°F | | | | | | | | | | | | | | | | | | | | | |
| -P4 | for 180° - 220°F solutions | | | | | | | | | | | | | | | | | | | | | |
| Resettable Protector | | | | | | | | | | | | | | | | | | | | | | |
| (additional control components required) | | | | | | | | | | | | | | | | | | | | | | |
| -P2 | for solutions up to 180°F | | | | | | | | | | | | | | | | | | | | | |
| -P6 | for 180° - 220°F solutions | | | | | | | | | | | | | | | | | | | | | |
| | | | no designator = 90° horizontal bend (standard) -S = straight riser | | | | no designator = single phase power (standard) -3 = three phase power | | | | | | | | | | | | | | | |

1 inch = 25.4mm

ORDERING EXAMPLE:

LT4226-R20-P2-X72

L-shaped, titanium, 4,000 watts, 240 volt, 26" horizontal, 20" vertical riser, P2 protector, 72" wire and conduit.

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