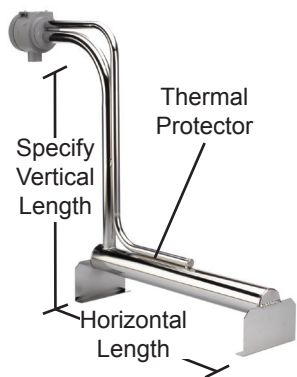




DL SERIES, DERATED METAL L-SHAPED HEATERS									
WATTS	VOLTS	STD.		STEEL	304 SS	316 SS	TITANIUM	SHIP WGT.	Lbs./kg)
		HORIZ. In./(mm)	VERT.* In./(mm)						
500	120	13	15	DLP.5113-R*-**	DLF.5113-R*-**	DLS.5113-R*-**	DLT.5113-R*-**	10	(4.5)
	240	(330)	(381)	DLP.5213-R*-**	DLF.5213-R*-**	DLS.5213-R*-**	DLT.5213-R*-**		
1000	120	17	19	DLP1117-R*-**	DLF1117-R*-**	DLS1117-R*-**	DLT1117-R*-**	11	(5)
	240	(432)	(483)	DLP1217-R*-**	DLF1217-R*-**	DLS1217-R*-**	DLT1217-R*-**		
1500	120	22	25	DLP1.5122-R*-**	DLF1.5122-R*-**	DLS1.5122-R*-**	DLT1.5122-R*-**	12	(5.4)
	240	(559)	(635)	DLP1.5222-R*-**	DLF1.5222-R*-**	DLS1.5222-R*-**	DLT1.5222-R*-**		
2000	240	26	25	DLP2226-R*-**	DLF2226-R*-**	DLS2226-R*-**	DLT2226-R*-**	13	(5.9)
	480	(660)	(635)	DLP2426-R*-**	DLF2426-R*-**	DLS2426-R*-**	DLT2426-R*-**		
2500	240	31	37	DLP2.5231-R*-**	DLF2.5231-R*-**	DLS2.5231-R*-**	DLT2.5231-R*-**	14	(6.4)
	480	(787)	(940)	DLP2.5431-R*-**	DLF2.5431-R*-**	DLS2.5431-R*-**	DLT2.5431-R*-**		
3000	240	36	50	DLP3236-R*-**	DLF3236-R*-**	DLS3236-R*-**	DLT3236-R*-**	15	(6.8)
	480	(914)	(1270)	DLP3436-R*-**	DLF3436-R*-**	DLS3436-R*-**	DLT3436-R*-**		
4000	240	44	50	DLP4244-R*-**	DLF4244-R*-**	DLS4244-R*-**	DLT4244-R*-**	18	(8.2)
	480	(1118)	(1270)	DLP4444-R*-**	DLF4444-R*-**	DLS4444-R*-**	DLT4444-R*-**		
4500	240	50	50	DLP4.5250-R*-**	DLF4.5250-R*-**	DLS4.5250-R*-**	DLT4.5250-R*-**	20	(9.1)
	480	(1270)	(1270)	DLP4.5450-R*-**	DLF4.5450-R*-**	DLS4.5450-R*-**	DLT4.5450-R*-**		
5000	240	55	50	DLP5255-R*-**	DLF5255-R*-**	DLS5255-R*-**	DLT5255-R*-**	22	(10)
	480	(1397)	(1270)	DLP5455-R*-**	DLF5455-R*-**	DLS5455-R*-**	DLT5455-R*-**		
6000	240	64	50	DLP6264-R*-**	DLF6264-R*-**	DLS6264-R*-**	DLT6264-R*-**	25	(11.3)
	480	(1626)	(1270)	DLP6464-R*-**	DLF6464-R*-**	DLS6464-R*-**	DLT6464-R*-**		

* Specify vertical length by adding height in inches after "-R". Example: DLS4244-R24-P1.



DL Series Heater Features and Benefits

SUPERIOR CHEMICAL RESISTANCE:

- ◆ For use in most aqueous alkaline solutions, and plating and phosphate tanks. Check solution recommendation chart 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 up to 18 watts per square inch (2.7 w/cm²) ensure long service life.

CORROSION RESISTANT HEAD:

- ◆ Vapor resistant, flame retardant polypropylene terminal enclosure with 3 ft (.9m) flexible PVC liquid tight conduit.

SAFETY FEATURES:

- ◆ Grounded construction.
- ◆ Thermal protector built in. Replaceable PI protector standard for solutions up to 180°F (82°C).
- ◆ Non-floating construction.

CERTIFICATIONS: cULus listed (except steel) and CE compliant (except 600 volts).

SIZES: 500 watts to 6,000 watts.

VOLTAGES:

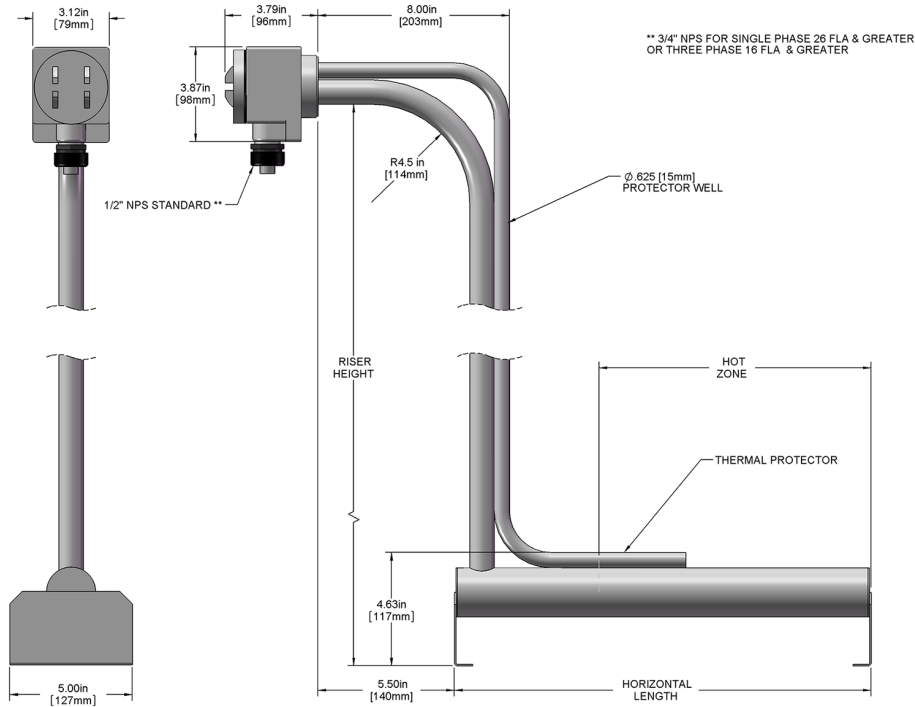
- ◆ 120 to 600 volts.

OPTIONS AVAILABLE (consult factory):

- ◆ Replaceable thermal protectors:
 - P4: for solutions up to 230°F(110°C)
 - P5: for solutions up to 300°F(149°C)
- Resettable thermal protectors:
 - P2: for solutions up to 180°F(82°C)
 - P6: for solutions up to 230°F(110°C)
 - P7: for solutions up to 300°F(149°C)

- ◆ Special configurations and lengths.
- ◆ Longer wire and conduit lengths.
- ◆ Temperature and level controls sized to match the heater (sold separately).
- ◆ All metal welded junction box.

DIMENSIONS



DERATED 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																		
	.5 = 500 1 = 1000 1.5 = 1500 2 = 2000 2.5 = 2500 3 = 3000 4 = 4000 4.5 = 4500 5 = 5000 6 = 6000	1 = 120 2 = 240 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200	13 = .5kW 17 = 1kW 22 = 1.5kW 26 = 2kW 31 = 2.5kW 36 = 3kW 44 = 4kW 50 = 4.5kW 55 = 5kW 64 = 6kW	-R15 = .5kW -R19 = 1kW -R25 = 1.5kW -R25 = 2kW -R37 = 2.5kW -R50 = 3kW -R50 = 4kW -R50 = 4.5kW -R50 = 5kW -R50 = 6kW (custom lengths available) Ex: -R21 = 21" -FR = flex riser Ex: -FR21 = 21"				no designator = 36" length standard specify variations from standard Ex: -X84 = 84"																		
	DLP = steel DLF = 304 stainless steel DLS = 316 stainless steel DLT = titanium						<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Replaceable Protector</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">P1 (std)</td> <td>for solutions up to 180°F</td> </tr> <tr> <td style="text-align: center;">P4</td> <td>for solutions up to 230°F</td> </tr> <tr> <td style="text-align: center;">P5</td> <td>for solutions up to 300°F</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>for solutions up to 180°F</td> </tr> <tr> <td style="text-align: center;">P6</td> <td>for solutions up to 230°F</td> </tr> <tr> <td style="text-align: center;">P7</td> <td>for solutions up to 300°F</td> </tr> </tbody> </table>	Replaceable Protector		P1 (std)	for solutions up to 180°F	P4	for solutions up to 230°F	P5	for solutions up to 300°F	Resettable Protector		(additional control components required)		P2	for solutions up to 180°F	P6	for solutions up to 230°F	P7	for solutions up to 300°F	
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			no designator = 90° horizontal bend (standard) S = straight riser					no designator = single phase power (standard) -3 = three phase power																		

ORDERING EXAMPLE:

DLS3436-R25-P1

Derated single tube L-shaped, 316 SS, 3,000 watts, 480 volts, 36" horizontal length, 25" riser, P1 protector.

