

3LV SERIES, VERTICAL STACK 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	3LVP3213-R*-**	3LVF3213-R*-**	3LVS3213-R*-**	3LVT3213-R*-**	30	
	480	(330)	(381)	3LVP3413-R*-**	3LVF3413-R*-**	3LVS3413-R*-**	3LVT3413-R*-**	(13.6)	
6000	240	17	37	3LVP6217-R*-**	3LVF6217-R*-**	3LVS6217-R*-**	3LVT6217-R*-**	33	
	480	(432)	(940)	3LVP6417-R*-**	3LVF6417-R*-**	3LVS6417-R*-**	3LVT6417-R*-**	(15)	
9000	240	22	37	3LVP9222-R*-**	3LVF9222-R*-**	3LVS9222-R*-**	3LVT9222-R*-**	36	
	480	(559)	(940)	3LVP9422-R*-**	3LVF9422-R*-**	3LVS9422-R*-**	3LVT9422-R*-**	(16.3)	
12000	240	26	37	3LVP12226-R*-**	3LVF12226-R*-**	3LVS12226-R*-**	3LVT12226-R*-**	39	
	480	(660)	(940)	3LVP12426-R*-**	3LVF12426-R*-**	3LVS12426-R*-**	3LVT12426-R*-**	(17.7)	
15000	240	31	37	3LVP15231-R*-**	3LVF15231-R*-**	3LVS15231-R*-**	3LVT15231-R*-**	42	
	480	(787)	(940)	3LVP15431-R*-**	3LVF15431-R*-**	3LVS15431-R*-**	3LVT15431-R*-**	(19.1)	
18000	240	36	50	3LVP18236-R*-**	3LVF18236-R*-**	3LVS18236-R*-**	3LVT18236-R*-**	45	
	480	(914)	(1270)	3LVP18436-R*-**	3LVF18436-R*-**	3LVS18436-R*-**	3LVT18436-R*-**	(20.4)	
24000	240	44	50	3LVP24244-R*-**	3LVF24244-R*-**	3LVS24244-R*-**	3LVT24244-R*-**	54	
	480	(1118)	(1270)	3LVP24444-R*-**	3LVF24444-R*-**	3LVS24444-R*-**	3LVT24444-R*-**	(24.5)	
27000	480	50	50	3LVP27450-R*-**	3LVF27450-R*-**	3LVS27450-R*-**	3LVT27450-R*-**	60	
			(1270)	(1270)				(27.2)	
30000	480	55	50	3LVP30455-R*-**	3LVF30455-R*-**	3LVS30455-R*-**	3LVT30455-R*-**	66	
			(1397)	(1270)				(29.9)	
36000	480	64	50	3LVP36464-R*-**	3LVF36464-R*-**	3LVS36464-R*-**	3LVT36464-R*-**	75	
			(1626)	(1270)				(34)	

\* Specify vertical length by adding height in inches after "-R". Example: 3LVF3213-R39-P1.

## 3LV 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 35 watts per square inch (5.4 w/cm<sup>2</sup>) 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 protectors 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).

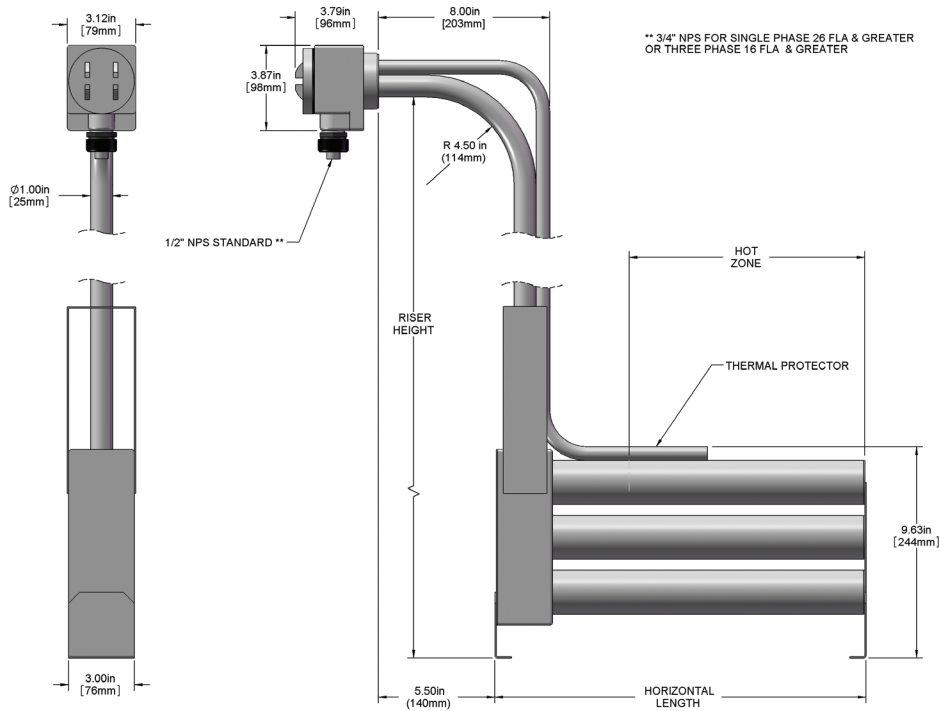
**SIZES:** 3,000 watts to 36,000 watts.

**VOLTAGES:** 200 to 600 volts.

### OPTIONS AVAILABLE (consult factory):

- ◆ Replaceable thermal protector:
  - P4: for solutions up to 230°F(110°C)
  - P5: for solutions up to 300°F(149°C)
- ◆ Resettable thermal protector:
  - 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.
- ◆ Lower watt densities for highly viscous solutions.
- ◆ All metal welded junction box.
- ◆ Temperature and level controls sized to match the heater (sold separately).

## DIMENSIONS



## TRIPLE TUBE VERTICAL STACK METAL L-SHAPED RISER HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Horizontal Length (in.)	Vertical Length (in.)	Riser Option	Options	Type of Protector	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 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200	13 = 3kW 17 = 6kW 22 = 9kW 26 = 12kW 31 = 15kW 36 = 18kW 44 = 24kW 50 = 27kW 55 = 30kW 64 = 36kW	-R19 = 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 = 90° horizontal bend (standard) -S = straight riser	no designator = three phase power (standard) -1 = single phase power	no designator = 36" length standard specify variations from standard Ex: -X84 = 84"	<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	no designator = 36" length standard specify variations from standard Ex: -X84 = 84"
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### ORDERING EXAMPLE:

3LVS12426-R50-P4

Triple tube, L-shaped, vertical stack, 316 SS, 12,000 watts, 480 volt, 26" length, 50" vertical riser, P4 protector.

