3LV Series

PRODUCT DATA SHEET

Metal Bottom Heater

Durable, efficient chemical heater

- For use in most aqueous alkaline solutions
- Low watt density design saves space & ensures long life
- Vapor resistant, flame retardant polypropylene terminal enclosure
- Grounded construction and built in thermal protector

c UL us

Up to 180°C (82°F)

3,000 watts to 36,000 watts

200 to 600 Volts
600V on 4,500W or lower only

Steel, 304 stainless steel, 316 stainless steel and titanium.

cULus (except steel and 600 volts)

3LV SERIES, VERTICAL STACK TRIPLE METAL L-SHAPED HEATERS

WATTS	VOLTS	STD. HORIZ. In./(mm)	STD. VERT.* In./(mm)	STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./(kg)
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)

Three phase standard

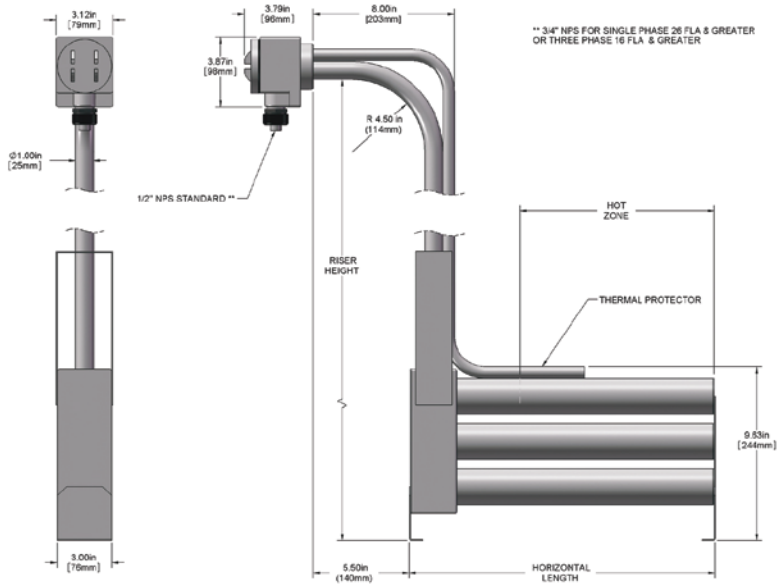
Features & Values

- For use in most aqueous alkaline solutions, plating and phosphate tanks. Check solution recommendation chart with your chemical supplier for proper sheath material selection
- Heavy wall metal sheaths available in: steel, 304 stainlesss steel, 316 stainless steel, titanium
- Watt densities up to 35 watts per square inch (5.4 w/cm²) ensure long service life
- Vapor-resistant, flame retardant polypropylene termimal enclosure with 3 ft (.9m) flexible PVC liquid tight conduit.
- Temperature and level controls sized to match the heater
- Lower watt densities for highly viscous solutions

Specifications

Wattages	3,000 to 36,000 Watts
Voltages	200 to 600 Volts (600V on 4,500W or lower only)
Temperature Range	Up to 180°C (82°F)
Options	▫ Special configurations & lengths ▫ Longer wire and conduit lengths ▫ All metal welded junction box
Safety Features	▫ Grounded construction ▫ Thermal protector built in. Replaceable PI protector standard for solutions up to 180°F (82°C). ▫ See chart below for protector options
Certifications	cULus compliant (except 600V)

Dimensions



Model Number Breakdown

3LVP	3	3	36	-R37	-S		-	P4	-	
Series	**Wattage**	**Voltage**	**Horizontal Length (In.)**	**Vertical Length (In.)**	**Riser Option**	**Phase**	-	**Type of Protector**	-	**Wire & Conduit Length**
3LVP = Steel	3 = 3000	2 = 240	13 = 3kW	-R19 = 3kW	Blank = 90° horizontal bend (std)	blank = three phase (std)		**Replaceable Fuse**		36" length standard (no designator)
3LVF = 304 stainless steel	6 = 6000	3 = 380	17 = 6kW	-R37 = 6kW	-S = straight riser	-1 = single phase		P1 (std) = solutions up to 180°F		Specify variations from standard Ex: -X84 = 84"
3LVS = 316 stainless steel	9 = 9000	4 = 480	22 = 9kW	-R37 = 9kW				P4 = solutions up to 230°F		
3LVT = Titanium	12 = 12000	5 = 415	26 = 12kW	-R37 = 12kW				P5 = solutions up to 300°F		
	15 = 15000	6 = 600	31 = 15kW	-R37 = 15kW				**Resettable Fuse**		
	18 = 18000	7 = 400	36 = 18kW	-R50 = 18kW				P2 = solutions up to 180°F		
	24 = 24000	8 = 208	44 = 24kW	-R50 = 24kW				P6 = solutions up to 230°F		
	27 = 27000	9 = 220	50 = 27kW	-R50 = 27kW				P7 = solutions up to 300°F		
	30 = 30000	0 = 200	55 = 30kW	-R50 = 30kW						
	36 = 36000		64 = 36kW	-R50 = 36kW						