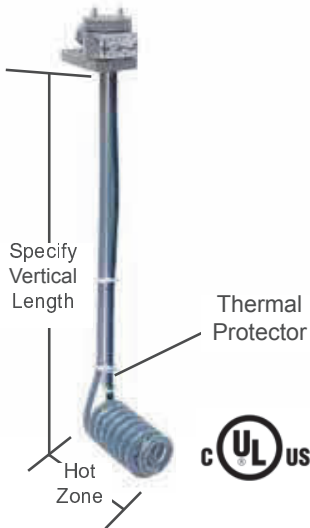




## HEATERS



HXL SERIES, SPIRAL L-SHAPED FLUOROPOLYMER (PTFE) HEATERS						
WATTS	VOLTS	HOT ZONE	STD. VERT. LENGTH*	MAX. COLD ZONE	MODEL NUMBER	SHIP WGT. Lbs./kg
		In./mm	In./mm	In./mm		
500	120	6	12	41	HXL5106-R*-**	6
	240	(152)	(305)	(1041)	HXL5206-R*-**	(2.7)
1000	120	8	12	41	HXL1108-R*-**	7
	240	(203)	(305)	(1041)	HXL1208-R*-**	(3.2)
2000	120	12	18	40	HXL2112-R*-**	8
	240	(305)	(457)	(1016)	HXL2212-R*-**	(3.6)
	480				HXL2412-R*-**	
3000	240	17	18	40	HXL3217-R*-**	13
	480	(432)	(457)	(1016)	HXL3417-R*-**	(5.9)
4000	240	20	18	40	HXL4220-R*-**	15
	480	(508)	(457)	(1016)	HXL4420-R*-**	(6.8)
5000	240	24	18	36	HXL5224-R*-**	18
	480	(610)	(457)	(914)	HXL5424-R*-**	(8.2)
6000	240	29	18	30	HXL6229-R*-**	21
	480	(737)	(457)	(762)	HXL6429-R*-**	(9.5)
8000	240	37	18	32	2HXL8237-R*-**	26
	480	(940)	(457)	(813)	2HXL8437-R*-**	(11.8)
9000	240	44	18	35	2HXL9244-R*-**	29
	480	(1118)	(457)	(889)	2HXL9444-R*-**	(13.2)

**SINGLE PHASE ONLY.** Guards recommended. This configuration is not recommended for electroless chemistry, phosphoric acid, or applications prone to sludge buildup.

## HXL Series Heater Features and Benefits

### SUPERIOR CHEMICAL RESISTANCE:

- ◆ Inert to most aqueous acid, alkaline, anodizing and pickling solutions up to 212°F (100°C).

### RUGGED CONSTRUCTION:

- ◆ Heavy wall fluoropolymer (PTFE) covered stainless steel element reduces permeation and reduces the need for gas purge systems. Guaranteed 100% pinhole free.

### OUTSTANDING PERFORMANCE:

- ◆ Low watt density design (10 watts/square inch (1.5w/cm<sup>2</sup>) uses minimal space and 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 internal metal element.
- ◆ Thermal protector built in. Replaceable P1 protector standard for solutions up to 180°F(82°C).
- ◆ Non-floating construction.

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

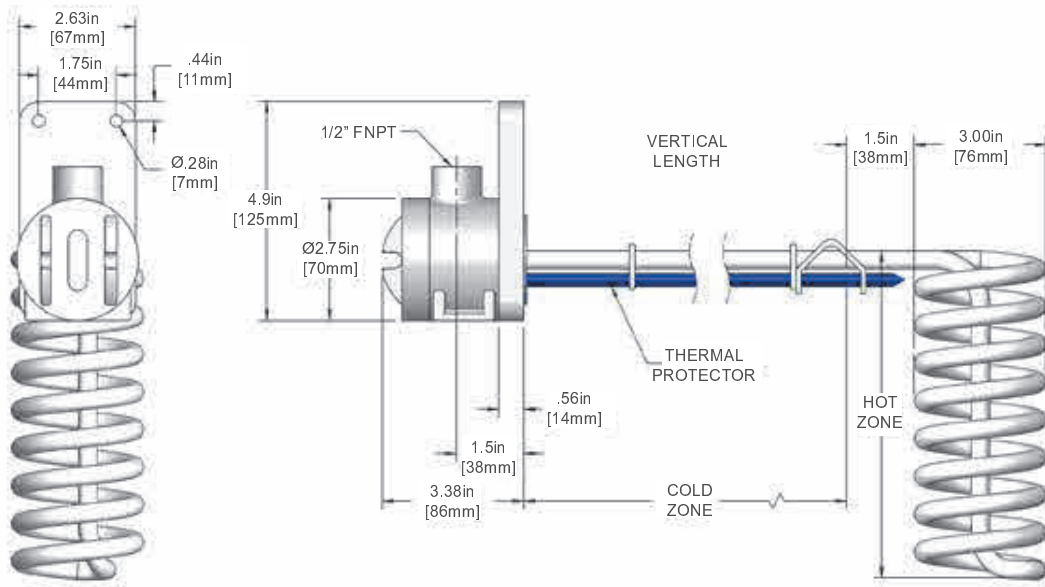
**SIZES:** 500 watts to 9,000 watts.

**VOLTAGES:** 120 to 600 volts.

**OPTIONS AVAILABLE (consult factory):**

- ◆ Resettable thermal protectors:
  - P2: For solutions up to 180°F(82°C)
  - P8: Type-J thermocouple for solutions up to 210°F(99°C).
  - P3: Type-J thermocouple for solutions up to 250°F(121°C).
- ◆ Polypropylene guards: Recommended for applications up to 180°F(82°C) (sold separately).
- ◆ Fluoropolymer (PTFE) guards: Recommended for chromic acid and solutions over 180°F(82°C) (sold separately).
- ◆ Special configurations and lengths.
- ◆ Longer wire and conduit lengths.
- ◆ Flexible continuous fluoropolymer leads (P3 protector only).
- ◆ Lower watt densities for highly viscous solutions and technical acids.
- ◆ Temperature and level controls sized to match the heater. (sold separately)

## DIMENSIONS



## SPIRAL L-SHAPED FLUOROPOLYMER (PTFE) HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Horizontal Length	Vertical Length	Type of Protector	Wire and Conduit Length
.5 = 500 1 = 1000 2 = 2000 3 = 3000 4 = 4000 5 = 5000 6 = 6000 8 = 8000 9 = 9000	1 = 120 2 = 240 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200	06 = .5kW 08 = 1kW 12 = 2kW 17 = 3kW 20 = 4kW 24 = 5kW 29 = 6kW 37 = 8kW 44 = 9kW	-R12 = .5kW -R12 = 1kW -R18 = 2W -R18 = 3kW -R18 = 4kW -R18 = 5kW -R18 = 6kW -R18 = 8kW -R18 = 9kW Specify custom lengths, not to exceed tank length	Replaceable Protector P1 For solutions up to 190°F Resettable Protector (additional control components required) P2 For solutions up to 190°F P8 For solutions up to 210°F P3 For solutions up to 250°F	no designator = 36" conduit length standard Specify variations from standard Ex: -X84 = 84"	
HXL = PTFE sheathed 2HXL = 2 element PTFE sheathed HSL = 304 stainless steel 2HSL = 2 element 304 stainless steel						

### ORDERING EXAMPLE:

HXL3417-R24-P1

Spiral L fluoropolymer heater, 3000 watts, 480 volt, single phase, 17" horizontal, 24" riser, P1 thermal protector.



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