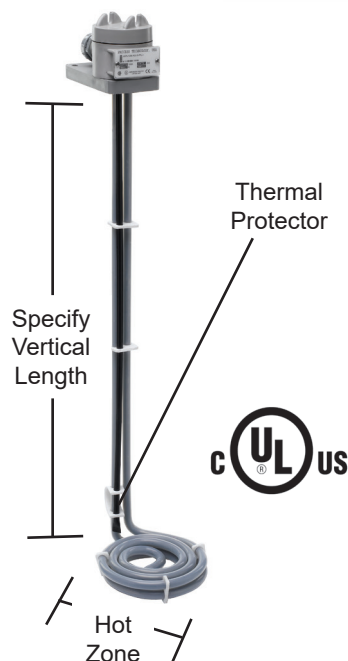




HXFL SERIES, LOW PROFILE L-SHAPED FLUOROPOLYMER (PTFE) HEATERS							
WATTS	VOLTS (See Pg.1)	HOT ZONE In./(mm)	STD. VERT. LENGTH* In./(mm)	DIA. In./(mm)	MAX. COLD ZONE In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./(kg)
500	120	5	12	5	36	HXFL5105-R*-**	6
	240	(127)	(305)	(127)	(914)	HXFL5205-R*-**	(2.7)
1000	120	6	12	6	36	HXFL1106-R*-**	7
	240	(152)	(305)	(152)	(914)	HXFL1206-R*-**	(3.2)
2000	120	8	18	8	35	HXFL2108-R*-**	8
	240	(203)	(457)	(203)	(889)	HXFL2208-R*-**	(3.6)
	480					HXFL2408-R*-**	
3000	240	9	18	9	35	HXFL3209-R*-**	13
	480	(229)	(457)	(229)	(889)	HXFL3409-R*-**	(5.9)
4000	240	11	18	11	35	HXFL4211-R*-**	15
	480	(279)	(457)	(279)	(889)	HXFL4411-R*-**	(6.8)
5000	240	12	18	12	31	HXFL5212-R*-**	18
	480	(305)	(457)	(305)	(787)	HXFL5412-R*-**	(8.2)
6000	240	13	18	13	25	HXFL6213-R*-**	22
	480	(330)	(457)	(330)	(635)	HXFL6413-R*-**	(10)

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

HXFL 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. Guaranteed 100% pinhole free.

OUTSTANDING PERFORMANCE:

- ♦ Low watt density design (10 watts/square inch (1.5w/cm²) 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 6,000 watts.

VOLTAGES: 120 to 600 volts. (600 volts on 4500 watts or lower only)

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)
- ♦ Patented purge feature promotes a longer heater life.

Technical drawing of the 1000 Series Cryogenic Thermocouple, showing dimensions in inches and millimeters.

Top View Dimensions:

- Overall width: 2.63in [67mm]
- Distance from center to mounting hole: 1.75in [44mm]
- Mounting hole diameter: Ø.28in [7mm]
- Distance from center to thermocouple body: .44in [11mm]

Side View Dimensions:

- Distance from mounting hole to thermocouple body: 3.39in [86mm]
- Distance from thermocouple body to cold zone: 1.50in [38mm]
- Distance from cold zone to thermocouple tip: .56in [14mm]
- Distance from mounting hole to thermocouple tip: 4.94in [125mm]
- Thermocouple body diameter: Ø2.75in [70mm]
- Distance from thermocouple body to thermal protector: 1.50in [38mm]
- Distance from thermal protector to thermocouple tip: 1.00in [25mm]

Labels and Notes:

- 1/2" FNPT (Female National Pipe Thread)
- COLD ZONE
- THERMAL PROTECTOR
- VERTICAL LENGTH
- DIAMETER

Series	Wattage	Voltage	Diameter	Vertical Length (in.)	Type of Protector	Wire and Conduit Length
	.5 = 500 1 = 1000 2 = 2000 3 = 3000 4 = 4000 5 = 5000 6 = 6000	1 = 120 2 = 240 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200	05 = .5kW 06 = 1kW 08 = 2W 09 = 3kW 11 = 4kW 12 = 5kW 13 = 6kW	-R12 = .5kW -R12 = 1kW -R18 = 2kW -R18 = 3kW -R18 = 4kW -R18 = 5kW -R18 = 6kW Specify custom lengths, not to exceed tank length.		36" conduit length standard (no designator) Specify variations from standard Ex: -X84 = 84"
					Replaceable Protector P1 (std) 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	
	HXFL = PTFE HSFL = 304 Stainless Steel					

Low profile fluoropolymer heater, 4000 watts, 240 volt, single phase, 11" diameter hot zone, 20" vertical riser, P1 thermal protector.

PROCESS TECHNOLOGY