

3HS SERIES, THREE ELEMENT STAINLESS STEEL HEATERS					
WATTS	VOLTS	HOT ZONE In./(mm)	OVERALL LENGTH In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./(kg)
3000	240	11	17	3HS3217-**	9
	480	(279)	(432)	3HS3417-**	(4.1)
4500	240	17	23	3HS4.5223-**	10
	480	(432)	(584)	3HS4.5423-**	(4.5)
7500	240	21	29	3HS7.5229-**	12
	480	(533)	(737)	3HS7.5429-**	(5.4)
10500	240	26	34	3HS10.5234-**	14
	480	(660)	(864)	3HS10.5434-**	(6.4)

*Three phase standard, single phase available as option. Add "-1" before thermal protector designator.

3HS Series Heater Features and Benefits

SUPERIOR CHEMICAL RESISTANCE:

- ◆ For use in most aqueous alkaline solutions and rinse tanks. Check solution recommendation chart with your chemical supplier for proper sheath material selection.

RUGGED CONSTRUCTION:

- ◆ Heavy wall metal sheaths in 316 stainless steel.

OUTSTANDING PERFORMANCE:

- ◆ Watt densities up to 46 watts per square inch (7.1 w/cm²) use 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 construction.
- ◆ Thermal protector built in. Replaceable PI protector standard for solutions up to 180°F (82°C).
- ◆ Non-floating construction.

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

SIZES: 3,000 watts to 10,500 watts.

VOLTAGES:

- ◆ 200 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:

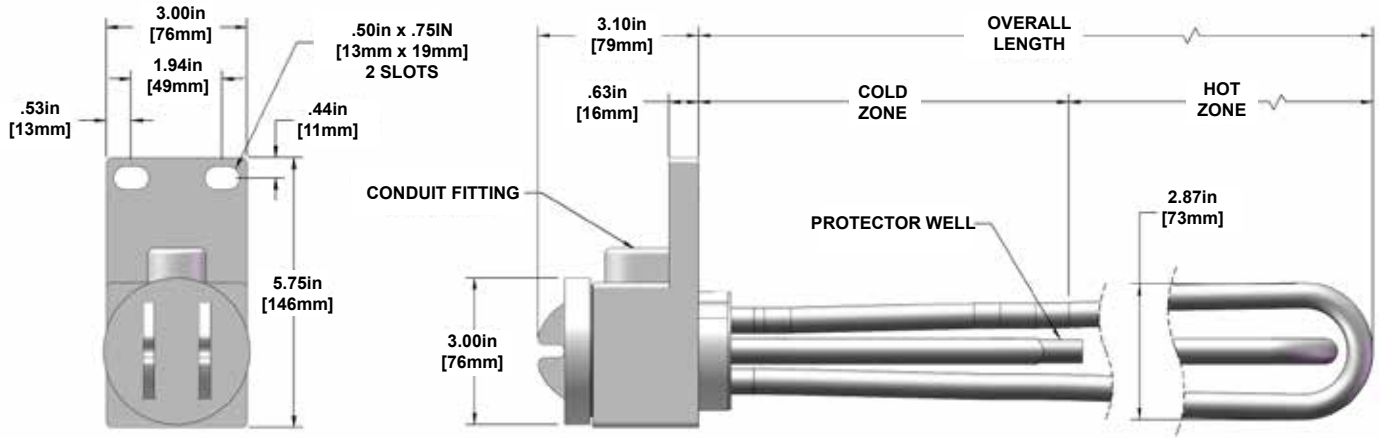
P2: for solutions up to 180°F(82°C)

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.
- ◆ Consult factory for other element materials.
- ◆ Lower watt densities for highly viscous solutions.
- ◆ Temperature and level controls sized to match the heater (sold separately).
- ◆ All metal welded junction box.

DIMENSIONS



3 ELEMENT METAL OVER THE SIDE HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Overall Length	Options	Type of Protector	Wire and Conduit Length
	3 = 3000 4.5 = 4500 7.5 = 7500 10.5 = 10500	1 = 120 2 = 240 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200	17 = 3kW 23 = 4.5kW 29 = 7.5kW 34 = 10.5kW			36" length conduit standard (no designator) specify variations from standard Ex: -X84 = 84"
	3HS = 3 element, 316 stainless steel				Replaceable Protector -P1(std) for solutions up to 180°F -P4 for solutions up to 230°F -P5 for solutions up to 300°F	
	no designator = three phase power (standard) -1 = single phase power M = Metal welded junction box (resettable protector required)				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	

ORDERING EXAMPLE:

3HS3417-P2

3 element, 316 stainless steel, 3,000 watts, 480 volts, 17" long, 3 phase, P2 protector.

