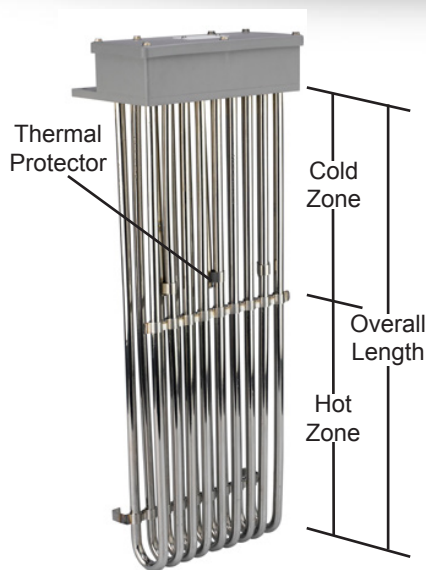




9HS SERIES, NINE ELEMENT STAINLESS STEEL HEATERS					
WATTS	VOLTS	HOT ZONE In./.(mm)	OVERALL LENGTH In./.(mm)	MODEL NUMBER	SHIP WGT. Lbs./.(kg)
9000	240	10	17	9HS9217-**-	16
	480	(254)	(432)	9HS9417-**-	(7.3)
13500	240	16	23	9HS13.5223-**-	19
	480	(406)	(584)	9HS13.5423-**-	(8.6)
22500	240	20	29	9HS22.5229-**-	23
	480	(508)	(737)	9HS22.5429-**-	(10.4)
31500	240*	25	34	9HS31.5234-M-**-	25
	480	(635)	(864)	9HS31.5434-**-	(11.3)

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

* Requires welded metal junction box and permanent P2 thermal overload protection.



9HS 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.
- ♦ Two thermal protectors built in. Replaceable PI protectors standard for solutions up to 180°F (82°C).
- ♦ Non-floating construction.

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

SIZES: 9,000 watts to 31,500 watts.

VOLTAGES:

- ♦ 200 to 600 volts.

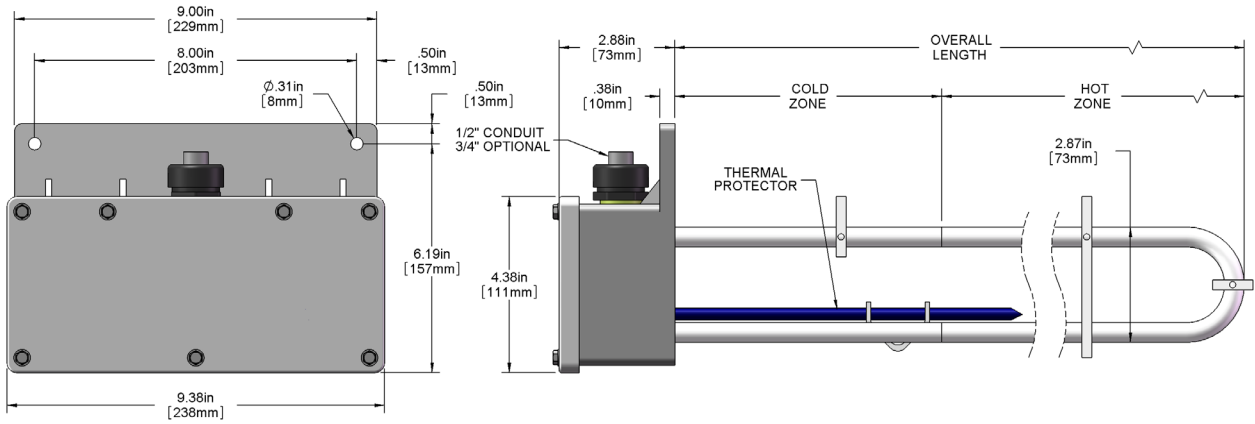
OPTIONS AVAILABLE (consult factory):

- ♦ 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



NINE ELEMENT OVER THE SIDE HEATER ORDERING INFORMATION

Series	Wattage	Voltage	Overall Length (in.)	Options	Type of Protector	Wire and Conduit Length												
	9 = 9000 13.5 = 13500 22.5 = 22500 31.5 = 31500	2 = 240 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200	17 = 9kW 23 = 13.5kW 29 = 22.5kW 34 = 31.5kW			36" length standard (no designator) specify variations from standard Ex: -X84 = 84"												
<table><tr><th colspan="2">Replaceable Protector</th></tr><tr><td>P1 (std)</td><td>for solutions up to 180°F</td></tr><tr><td>P4</td><td>for 180° - 230°F solutions</td></tr><tr><th colspan="2">Resettable Protector</th></tr><tr><td>P2</td><td>for solutions up to 180°F</td></tr><tr><td>P6</td><td>for 180° - 230°F solutions</td></tr></table>							Replaceable Protector		P1 (std)	for solutions up to 180°F	P4	for 180° - 230°F solutions	Resettable Protector		P2	for solutions up to 180°F	P6	for 180° - 230°F solutions
Replaceable Protector																		
P1 (std)	for solutions up to 180°F																	
P4	for 180° - 230°F solutions																	
Resettable Protector																		
P2	for solutions up to 180°F																	
P6	for 180° - 230°F solutions																	
9HS = 9 element, 316 stainless steel																		
no designator = three phase power (standard) -1 = single phase power																		

ORDERING EXAMPLE:

9HS9817-P4-X96

9 element, 316 stainless steel, 9000 watt, 208 volt, 17" long, P4 protector, 96" conduit and leads.

