



# PRODUCT CATALOG

## IMMERSION HEATERS & CONTROLS



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# FEATURES ALL HEATER TEK PTFE FLUOROPOLYMER HEATERS HAVE THE SAME OUTSTANDING FEATURES:

- CSAus
- Excellent chemical resistance to most aqueous chemistries
- Heavy wall PTFE Tubing over stainless steel element
- Low watt density for long life: 10 w/in<sup>2</sup> (1.5w/cm<sup>2</sup>)
- Corrosion resistant FRPP terminal enclosure
- Wire & conduit included, 72" Standard
- Grounded metal element
- Voltages 120, 208, 240, or 480
- Guards available
- Thermal over-temperature protection:
  - P1 replaceable fuse up to 190°F
  - P4 replaceable fuse up to 220°
  - P2 resettable fuse up to 190F
  - P6 resettable fuse up to 230°F

## NOTE

ALL immersion heater installations **MUST** have both liquid level control for low level heater shut off **AND** over-temperature thermal protection.



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# HZ

## SPIRAL OVER THE SIDE PTFE HEATER



Watts	Volts	Hot Zone in (mm)	Overall Length in (mm)	Max Cold Zone in (mm)	Model Number	Ship Wt lbs/(kg)
500	120	5 (127)	11 (279)	41 (1041)	HZ.51111-**	6 (2.7)
	240	5 (127)	11 (279)	41 (1041)	HZ.52111-**	6 (2.7)
1000	120	7 (178)	11 (279)	41 (1041)	HZ11111-**	7 (3.2)
	240	7 (178)	11 (279)	41 (1041)	HZ12111-**	7 (3.2)
2000	120	12 (305)	17 (432)	40 (1016)	HZ21117-**	8 (3.6)
	240	12 (305)	17 (432)	40 (1016)	HZ22117-**	8 (3.6)
	480	12 (305)	17 (432)	40 (1016)	HZ24117-**	8 (3.6)
3000	240	16 (406)	23 (584)	40 (1016)	HZ3223-**	13 (5.9)
	480	16 (406)	23 (584)	40 (1016)	HZ3423-**	13 (5.9)
4000	240	20 (508)	29 (737)	40 (1016)	HZ4229-**	15 (6.8)
	480	20 (508)	29 (737)	40 (1016)	HZ4429-**	15 (6.8)
5000	240	25 (635)	35 (889)	36 (914)	HZ5235-**	18 (8.2)
	480	25 (635)	35 (889)	36 (914)	HZ5435-**	18 (8.2)
6000	240	29 (737)	40 (1016)	30 (762)	HZ6240-**	21 (9.5)
	480	29 (737)	40 (1016)	30 (762)	HZ6440-**	21 (9.5)
8000	240	37 (940)	47 (1194)	32 (813)	2HZ8247-**	25 (11.3)
	480	37 (940)	47 (1194)	32 (813)	2HZ8447-**	25 (11.3)
9000	240	44 (1118)	54 (1372)	35 (889)	2HZ9254-**	28 (12.7)
	480	44 (1118)	54 (1372)	35 (889)	2HZ9454-**	28 (12.7)

# HZL

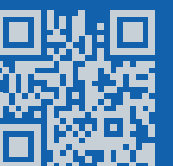
## SPIRAL L- SHAPED PTFE HEATER



Watts	Volts	Hot Zone in/(mm)	Std. Vertical Length in/(mm)	Max Cold Zone in/(mm)	Model Number	Ship Wt lbs/(kg)
500	120	6 (152)	12 (305)	41 (1041)	HZL.5106-R**. **	6 (2.7)
	240	6 (152)	12 (305)	41 (1041)	HZL.5206-R**. **	6 (2.7)
1000	120	8 (203)	12 (305)	41 (1041)	HZL1108-R**. **	7 (3.2)
	240	8 (203)	12 (305)	41 (1041)	HZL1208-R**. **	7 (3.2)
2000	120	12 (305)	18 (457)	40 (1016)	HZL2112-R**. **	8 (3.6)
	240	12 (305)	18 (457)	40 (1016)	HZL2212-R**. **	8 (3.6)
	480	12 (305)	18 (457)	40 (1016)	HZL2412-R**. **	8 (3.6)
3000	240	17 (432)	18 (457)	40 (1016)	HZL3217-R**. **	13 (5.9)
	480	17 (432)	18 (457)	40 (1016)	HZL3417-R**. **	13 (5.9)
4000	240	20 (508)	18 (457)	40 (1016)	HZL4220-R**. **	15 (6.8)
	480	20 (508)	18 (457)	40 (1016)	HZL4420-R**. **	15 (6.8)
5000	240	24 (610)	18 (457)	36 (914)	HZL5224-R**. **	18 (8.2)
	480	24 (610)	18 (457)	36 (914)	HZL5424-R**. **	18 (8.2)
6000	240	29 (737)	18 (457)	30 (762)	HZL6229-R**. **	21 (9.5)
	480	29 (737)	18 (457)	30 (762)	HZL6429-R**. **	21 (9.5)
8000	240	37 (940)	18 (457)	32 (813)	2HZL8237-R**. **	26 (11.8)
	480	37 (940)	18 (457)	32 (813)	2HZL8437-R**. **	26 (11.8)
9000	240	44 (1118)	18 (457)	35 (889)	2HZL9244-R**. **	29 (13.2)
	480	44 (1118)	18 (457)	35 (889)	2HZL9444-R**. **	29 (13.2)



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# HZF LOW PROFILE PTFE HEATER



Watts	Volts	Hot Zone in/(mm)	Overall Length in/(mm)	Max Cold Zone in/(mm)	Dia in/(mm)	Model Number	Ship Wt lbs/(kg)
500	120	6 (152)	14 (356)	36 (914)	5 (127)	HZF5105-14-11	6 (2.7)
	240	6 (152)	14 (356)	36 (914)	5 (127)	HZF5205-14-11	6 (2.7)
1000	120	7 (178)	14 (356)	36 (914)	6 (152)	HZF1106-14-11	7 (3.2)
	240	7 (178)	14 (356)	36 (914)	6 (152)	HZF1206-14-11	7 (3.2)
2000	120	9 (229)	17 (432)	35 (889)	8 (203)	HZF2108-17-11	8 (3.6)
	240	9 (229)	17 (432)	35 (889)	8 (203)	HZF2208-17-11	8 (3.6)
	480	9 (229)	17 (432)	35 (889)	8 (203)	HZF2408-17-11	8 (3.6)
3000	240	10 (254)	23 (584)	35 (889)	9 (229)	HZF3209-23-11	13 (5.9)
	480	10 (254)	23 (584)	35 (889)	9 (229)	HZF3409-23-11	13 (5.9)
4000	240	12 (305)	29 (737)	35 (889)	11 (279)	HZF4211-29-11	15 (6.8)
	480	12 (305)	29 (737)	35 (889)	11 (279)	HZF4411-29-11	15 (6.8)
5000	240	13 (330)	35 (889)	31 (787)	12 (305)	HZF5212-35-11	18 (8.2)
	480	13 (330)	35 (889)	31 (787)	12 (305)	HZF5412-35-11	18 (8.2)
6000	240	14 (356)	40 (1016)	26 (660)	13 (330)	HZF6213-40-11	22 (10)
	480	14 (356)	40 (1016)	26 (660)	13 (330)	HZF6413-40-11	22 (10)

# HZFL L-SHAPED PTFE HEATER



Watts	Volts	Hot Zone in/(mm)	Overall Length in/(mm)	Max Cold Zone in/(mm)	Dia in/(mm)	Model Number	Ship Wt lbs/(kg)
500	120	5 (127)	12 (305)	36 (914)	5 (127)	HZFL5105-R-11	6 (2.7)
	240	5 (127)	12 (305)	36 (914)	5 (127)	HZFL5205-R-11	6 (2.7)
1000	120	6 (152)	12 (305)	36 (914)	6 (152)	HZFL1106-R-11	7 (3.2)
	240	6 (152)	12 (305)	36 (914)	6 (152)	HZFL1206-R-11	7 (3.2)
2000	120	8 (203)	18 (457)	35 (889)	8 (203)	HZFL2108-R-11	8 (3.6)
	240	8 (203)	18 (457)	35 (889)	8 (203)	HZFL2208-R-11	8 (3.6)
	480	8 (203)	18 (457)	35 (889)	8 (203)	HZFL2408-R-11	8 (3.6)
3000	240	9 (229)	18 (457)	35 (889)	9 (229)	HZFL3209-R-11	13 (5.9)
	480	9 (229)	18 (457)	35 (889)	9 (229)	HZFL3409-R-11	13 (5.9)
4000	240	11 (279)	18 (457)	35 (889)	11 (279)	HZFL4211-R-11	15 (6.8)
	480	11 (279)	18 (457)	35 (889)	11 (279)	HZFL4411-R-11	15 (6.8)
5000	240	12 (305)	18 (457)	31 (787)	12 (305)	HZFL5212-R-11	18 (8.2)
	480	12 (305)	18 (457)	31 (787)	12 (305)	HZFL5412-R-11	18 (8.2)
6000	240	13 (330)	18 (457)	25 (635)	13 (330)	HZFL6213-R-11	22 (10)
	480	13 (330)	18 (457)	25 (635)	13 (330)	HZFL6413-R-11	22 (10)



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# HZO PTFE HEATER



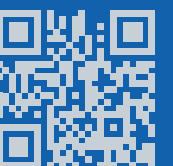
Watts	Volts	Width in (mm)	Pad Length in (mm)	Overall Length in (mm)	Max Cold Zone in (mm)	Model Number	Ship Wt lbs (kg)
500	120	5 (127)	6 (152)	11 (279)	36 (914)	HZO.5105-06-11-11**	6 (2.7)
	240	5 (127)	6 (152)	11 (279)	36 (914)	HZO.5205-06-11-11**	6 (2.7)
1000	120	6 (152)	7 (178)	11 (279)	36 (914)	HZO1106-07-11-11**	7 (3.2)
	240	6 (152)	7 (178)	11 (279)	36 (914)	HZO1206-07-11-11**	7 (3.2)
2000	120	6 (152)	10 (254)	17 (432)	35 (889)	HZO2106-10-17-11**	8 (3.6)
	240	6 (152)	10 (254)	17 (432)	35 (889)	HZO2206-10-17-11**	8 (3.6)
	480	6 (152)	10 (254)	17 (432)	35 (889)	HZO2406-10-17-11**	8 (3.6)
3000	240	6 (152)	12 (305)	23 (584)	35 (889)	HZO3206-12-23-11**	13 (5.9)
	480	6 (152)	12 (305)	23 (584)	35 (889)	HZO3406-12-23-11**	13 (5.9)
4000	240	6 (152)	19 (483)	29 (737)	35 (889)	HZO4206-19-29-11**	15 (6.8)
	480	6 (152)	19 (483)	29 (737)	35 (889)	HZO4406-19-29-11**	15 (6.8)
5000	240	6 (152)	20 (508)	35 (889)	31 (787)	HZO5206-20-35-11**	18 (8.2)
	480	6 (152)	20 (508)	35 (889)	31 (787)	HZO5406-20-35-11**	18 (8.2)
6000	240	8 (203)	22 (559)	40 (1016)	25 (635)	HZO6208-22-40-11**	22 (10)
	480	8 (203)	22 (559)	40 (1016)	25 (635)	HZO6408-22-40-11**	22 (10)
8000	240	8 (203)	36 (914)	47 (1194)	28 (711)	2HZO8208-36-47-11**	25 (11.3)
	480	8 (203)	36 (914)	47 (1194)	28 (711)	2HZO8408-36-47-11**	25 (11.3)
9000	240	8 (203)	40 (1016)	54 (1372)	30 (762)	2HZO9208-40-54-11**	28 (12.7)
	480	8 (203)	40 (1016)	54 (1372)	30 (762)	2HZO9408-40-54-11**	28 (12.7)

# 3HZO MULTI ELEMENT PTFE HEATER

Watts	Volts	Width in (mm)	Pad Length in (mm)	Overall Length in (mm)	Max Cold Zone in (mm)	Model Number	Ship Wt lbs (kg)
1500	120	10.5 (263)	6 (152)	11 (279)	36 (914)	3HZO1.5110.5-06-11-11**	15 (6.8)
	240	10.5 (263)	6 (152)	11 (279)	36 (914)	3HZO1.5210.5-06-11-11**	15 (6.8)
3000	240	11 (279)	6 (152)	11 (279)	36 (914)	3HZO3211-06-11-11**	20 (9.1)
	480	11 (279)	6 (152)	11 (279)	36 (914)	3HZO3411-06-11-11**	20 (9.1)
4500	240	11 (279)	9.5 (238)	17 (432)	35 (889)	3HZO4.5211-9.5-17-11**	21 (9.5)
	480	11 (279)	9.5 (238)	17 (432)	35 (889)	3HZO4.5411-9.5-17-11**	21 (9.5)
6000	240	13 (330)	10.5 (263)	17 (432)	35 (889)	3HZO6213-10.5-17-11**	21 (9.5)
	480	13 (330)	10.5 (263)	17 (432)	35 (889)	3HZO6413-10.5-17-11**	21 (9.5)
9000	240	13 (330)	16 (406)	23 (584)	35 (889)	3HZO9213-16-23-11**	36 (16.3)
	480	13 (330)	16 (406)	23 (584)	35 (889)	3HZO9413-16-23-11**	36 (16.3)
12000	240	13 (330)	20.5 (513)	29 (737)	35 (889)	3HZO12213-20.5-29-11**	42 (19.1)
	480	13 (330)	20.5 (513)	29 (737)	35 (889)	3HZO12413-20.5-29-11**	42 (19.1)
15000	240	13 (330)	25 (635)	35 (889)	31 (787)	3HZO15213-25-35-11**	48 (21.8)
	480	13 (330)	25 (635)	35 (889)	31 (787)	3HZO15413-25-35-11**	48 (21.8)
18000	240	13 (330)	29 (737)	40 (1016)	25 (635)	3HZO18213-29-40-11**	54 (24.5)
	480	13 (330)	29 (737)	40 (1016)	25 (635)	3HZO18413-29-40-11**	54 (24.5)



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# 3HZOL MULTI ELEMENT L-SHAPED PTFE HEATER



Watts	Volts	Width in (mm)	Pad Length in (mm)	Overall Length in (mm)	Max Cold Zone in (mm)	Model Number	Ship Wt lbs/(kg)
3000	240	8 (203)	13 (330)	18 (457)	36 (914)	3HZOL3208-13-R*-**	20 (9.1)
	480	8 (203)	13 (330)	18 (457)	36 (914)	3HZOL3408-13-R*-**	20 (9.1)
4500	240	11 (263)	11 (279)	18 (457)	35 (889)	3HZOL4.5210.5-11-R*-**	21 (9.5)
	480	11 (263)	11 (279)	18 (457)	35 (889)	3HZOL4.5410.5-11-R*-**	21 (9.5)
6000	240	11 (263)	19 (483)	18 (457)	35 (889)	3HZOL6210.5-19-R*-**	22 (10)
	480	11 (263)	19 (483)	18 (457)	35 (889)	3HZOL6410.5-19-R*-**	22 (10)
9000	240	11 (263)	23 (584)	18 (457)	35 (889)	3HZOL9210.5-23-R**	36 (16.3)
	480	11 (263)	23 (584)	18 (457)	35 (889)	3HZOL9410.5-23-R**	36 (16.3)
12000	240	11 (263)	30 (762)	18 (457)	35 (889)	3HZOL12210.5-30-R**	42 (19.1)
	480	11 (263)	30 (762)	18 (457)	35 (889)	3HZOL12410.5-30-R**	42 (19.1)
15000	240	11 (263)	36 (914)	18 (457)	31 (787)	3HZOL15210.5-36-R**	48 (21.8)
	480	11 (263)	36 (914)	18 (457)	31 (787)	3HZOL15410.5-36-R**	48 (21.8)
18000	240	11 (263)	42 (1067)	18 (457)	25 (635)	3HZOL18210.5-42-R**	54 (24.5)
	480	11 (263)	42 (1067)	18 (457)	25 (635)	3HZOL18410.5-42-R**	54 (24.5)

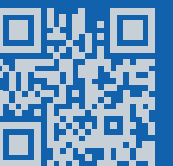
# 3HZ THREE ELEMENT PTFE HEATER



Watts	Volts	Hot Zone in (mm)	Overall Length in (mm)	Model Number	Ship Wt lbs (kg)
1000	120	10 (254)	17 (432)	3HZ1117-**	10 (4.5)
	240	10 (254)	17 (432)	3HZ1217-**	10 (4.5)
1500	120	16 (406)	23 (584)	3HZ1.5123-**	11 (5)
	240	16 (406)	23 (584)	3HZ1.5223-**	11 (5)
	480	16 (406)	23 (584)	3HZ1.5423-**	11 (5)
2000	240	22 (559)	29 (737)	3HZ2229-**	12 (5.4)
	480	22 (559)	29 (737)	3HZ2429-**	12 (5.4)
3000	240	29 (737)	35 (889)	3HZ3235-**	14 (6.4)
	480	29 (737)	35 (889)	3HZ3435-**	14 (6.4)
4000	240	39 (991)	47 (1194)	3HZ4247-**	17 (7.7)
	480	39 (991)	47 (1194)	3HZ4447-**	17 (7.7)
5000	240	48 (1219)	59 (1499)	3HZ5259-**	20 (9.1)
	480	48 (1219)	59 (1499)	3HZ5459-**	20 (9.1)
6000	240	56 (1422)	68 (1727)	3HZ6268-**	23 (10.4)
	480	56 (1422)	68 (1727)	3HZ6468-**	23 (10.4)



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# 6HZ

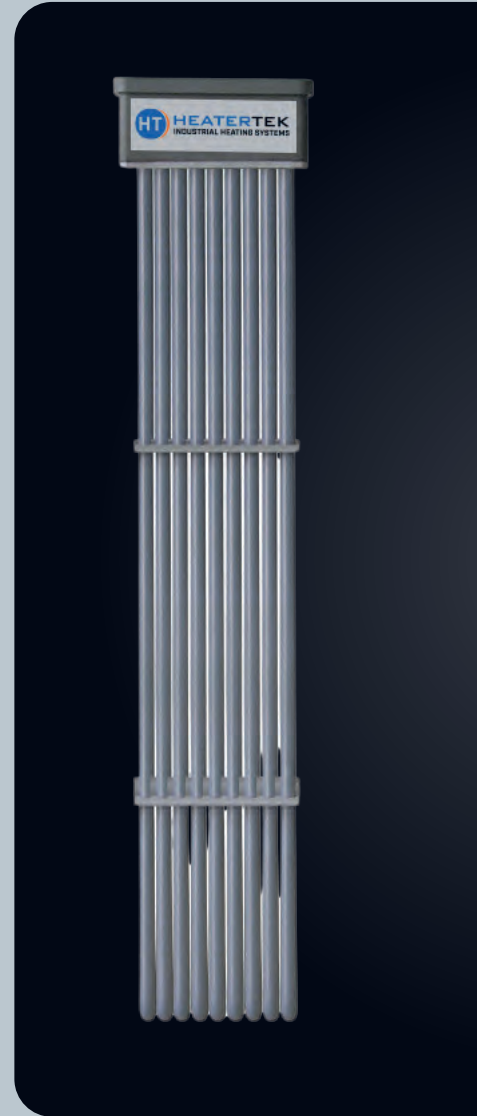
## SIX ELEMENT PTFE HEATER



Watts	Volts	Hot Zone in (mm)	Overall Length in (mm)	Model Number	Ship Wt lbs (kg)
2000	120	9 (229)	17 (432)	6HZ2117-**-	19 (8.6)
	240	9 (229)	17 (432)	6HZ2217-**-	19 (8.6)
	480	9 (229)	17 (432)	6HZ2417-**-	19 (8.6)
3000	240	15 (381)	23 (584)	6HZ3223-**-	22 (10)
	480	15 (381)	23 (584)	6HZ3423-**-	22 (10)
4000	240	21 (533)	29 (737)	6HZ4229-**-	24 (10.9)
	480	21 (533)	29 (737)	6HZ4429-**-	24 (10.9)
6000	240	28 (711)	35 (889)	6HZ6235-**-	27 (12.2)
	480	28 (711)	35 (889)	6HZ6435-**-	27 (12.2)
8000	240	38 (965)	47 (1194)	6HZ8247-**-	33 (15)
	480	38 (965)	47 (1194)	6HZ8447-**-	33 (15)
10000	240	47 (1194)	59 (1499)	6HZ10259-**-	40 (18.1)
	480	47 (1194)	59 (1499)	6HZ10459-**-	40 (18.1)
12000	240	55 (1397)	68 (1727)	6HZ12268-**-	45 (20.4)
	480	55 (1397)	68 (1727)	6HZ12468-**-	45 (20.4)




# 9HZ

## NINE ELEMENT PTFE HEATER



Watts	Volts	Hot Zone in (mm)	Overall Length in (mm)	Model Number	Ship Wt lbs (kg)
3000	240	9 (229)	17 (432)	9HZ3217-**-	28 (12.7)
	480	9 (229)	17 (432)	9HZ3417-**-	28 (12.7)
4500	240	15 (381)	23 (584)	9HZ4.5223-**-	33.0 (15.0)
	480	15 (381)	23 (584)	9HZ4.5423-**-	33.0 (15.0)
6000	240	21 (533)	29 (737)	9HZ6229-**-	36.0 (16.3)
	480	21 (533)	29 (737)	9HZ6429-**-	36.0 (16.3)
9000	240	28 (711)	35 (889)	9HZ9235-**-	40.0 (18.1)
	480	28 (711)	35 (889)	9HZ9435-**-	40.0 (18.1)
12000	240	38 (965)	47 (1194)	9HZ12247-**-	49.0 (22.2)
	480	38 (965)	47 (1194)	9HZ12447-**-	49.0 (22.2)
15000	240	47 (1194)	59 (1499)	9HZ15259-**-	60.0 (27.2)
	480	47 (1194)	59 (1499)	9HZ15459-**-	60.0 (27.2)
18000	240	68 (1727)	68 (1727)	9HZ18268-**-	67.0 (30.4)
	480	68 (1727)	68 (1727)	9HZ18468-**-	67.0 (30.4)



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# FEATURES

## ALL HEATER TEK METAL HEATERS HAVE THE SAME OUTSTANDING FEATURES:

- Excellent chemical resistance with stainless steel or titanium sheaths
- Low watt density for long life: 35 w/in<sup>2</sup> (5w/cm<sup>2</sup>) for standard watt density, 17 w/in<sup>2</sup> (2.5w/cm<sup>2</sup>) for derated watt density
- Corrosion resistant FRPP terminal enclosure
- Grounded metal element
- Voltages: 120, 208, 240, or 480
- Thermal over-temperature protection:
  - P1 replaceable fuse up to 180° F
  - P4 replaceable fuse up to 230° F
  - P5 replaceable fuse up to 300° F
  - P2 resettable fuse up to 180° F
  - P6 resettable fuse up to 230° F
  - P7 resettable fuse up to 300° F

### NOTE

ALL immersion heater installations **MUST** have both liquid level control for low level heater shut off **AND** over-temperature thermal protection.



# HF, HS, & HT SINGLE TUBE OVER THE SIDE METAL HEATER

Watts	Volts	Hot Zone in (mm)	Overall Length in (mm)	316 SS	Titanium	Ship Wt lbs (kg)
1000	120	6 (152)	11 (279)	HS1111-*.**	HT1111-*.**	7 (3)
	240	6 (152)	11 (279)	HS1211-*.**	HT1211-*.**	7 (3)
2000	240	10 (254)	17 (432)	HS2217-*.**	HT2217-*.**	10 (5)
	480	10 (254)	17 (432)	HS2417-*.**	HT2417-*.**	10 (5)
3000	240	16 (406)	23 (584)	HS3223-*.**	HT3223-*.**	11 (5)
	480	16 (406)	23 (584)	HS3423-*.**	HT3423-*.**	11 (5)
4000	240	20 (508)	29 (737)	HS4229-*.**	HT4229-*.**	13 (6)
	480	20 (508)	29 (737)	HS4429-*.**	HT4429-*.**	13 (6)
5000	240	25 (635)	35 (889)	HS5235-*.**	HT5235-*.**	15 (7)
	480	25 (635)	35 (889)	HS5435-*.**	HT5435-*.**	15 (7)
6000	240	30 (762)	40 (1016)	HS6240-*.**	HT6240-*.**	17 (8)
	480	30 (762)	40 (1016)	HS6440-*.**	HT6440-*.**	17 (8)
8000	240	37 (940)	47 (1194)	HS8247-*.**	HT8247-*.**	23 (10)
	480	37 (940)	47 (1194)	HS8447-*.**	HT8447-*.**	23 (10)
9000	240	44 (1118)	54 (1372)	HS9254-*.**	HT9254-*.**	24 (11)
	480	44 (1118)	54 (1372)	HS9454-*.**	HT9454-*.**	24 (11)
10000	240	49 (1245)	59 (1499)	HS10259-*.**	HT10259-*.**	25 (11)
	480	49 (1245)	59 (1499)	HS10459-*.**	HT10459-*.**	25 (11)
12000	480	58 (1473)	68 (1727)	HS12468-*.**	HT12468-*.**	28 (12.7)



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# H3F, H3S, & H3T TRIPLE TUBE OVER THE SIDE METAL HEATER



Watts	Volts	Hot Zone in (mm)	Overall Length in (mm)	316 SS	Titanium	Ship Wt lbs (kg)
3000	240	6 (152)	11 (279)	H3S3211-*.**	H3T3211-*.**	21 (9.5)
	480	6 (152)	11 (279)	H3S3411-*.**	H3T3411-*.**	21 (9.5)
6000	240	10 (254)	17 (432)	H3S6217-*.**	H3T6217-*.**	30 (13.6)
	480	10 (254)	17 (432)	H3S6417-*.**	H3T6417-*.**	30 (13.6)
9000	240	16 (406)	23 (584)	H3S9223-*.**	H3T9223-*.**	33 (15)
	480	16 (406)	23 (584)	H3S9423-*.**	H3T9423-*.**	33 (15)
12000	240	20 (508)	29 (737)	H3S12229-*.**	H3T12229-*.**	39 (17.7)
	480	20 (508)	29 (737)	H3S12429-*.**	H3T12429-*.**	39 (17.7)
15000	240	25 (635)	35 (889)	H3S15235-*.**	H3T15235-*.**	45 (20.4)
	480	25 (635)	35 (889)	H3S15435-*.**	H3T15435-*.**	45 (20.4)
18000	240	30 (762)	40 (1016)	H3S18240-*.**	H3T18240-*.**	51 (23.1)
	480	30 (762)	40 (1016)	H3S18440-*.**	H3T18440-*.**	51 (23.1)
24000	240	37 (940)	47 (1194)	H3S24247-*.**	H3T24247-*.**	63 (28.6)
	480	37 (940)	47 (1194)	H3S24447-*.**	H3T24447-*.**	63 (28.6)
27000	480	44 (1118)	54 (1372)	H3S27454-*.**	H3T27454-*.**	69 (31.3)
30000	480	49 (1245)	59 (1499)	H3S30459-*.**	H3T30459-*.**	75 (34)
36000	480	58 (1473)	68 (1727)	H3S36468-*.**	H3T36468-*.**	84 (38.1)

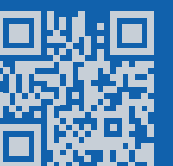
# HDO

## DERATED METAL OVER THE SIDE HEATER

Watts	Volts	Hot Zone in (mm)	Overall Length in (mm)	316 SS	Titanium	Ship Wt lbs (kg)
500	120	6 (152)	11 (279)	HDS.5111-*.**	HDT.5111-*.**	7 (3.2)
	240	6 (152)	11 (279)	HDS.5211-*.**	HDT.5211-*.**	7 (3.2)
1000	240	10 (254)	17 (432)	HDS1217-*.**	HDT1217-*.**	10 (4.5)
	480	10 (254)	17 (432)	HDS1417-*.**	HDT1417-*.**	10 (4.5)
1500	240	16 (406)	23 (584)	HDS1.5223-*.**	HDT1.5223-*.**	11 (5)
	480	16 (406)	23 (584)	HDS1.5423-*.**	HDT1.5423-*.**	11 (5)
2000	240	20 (508)	29 (737)	HDS2229-*.**	HDT2229-*.**	13 (5.9)
	480	20 (508)	29 (737)	HDS2429-*.**	HDT2429-*.**	13 (5.9)
2500	240	25 (635)	35 (889)	HDS2.5235-*.**	HDT2.5235-*.**	15 (6.8)
	480	25 (635)	35 (889)	HDS2.5435-*.**	HDT2.5435-*.**	15 (6.8)
3000	240	30 (762)	40 (1016)	HDS3240-*.**	HDT3240-*.**	17 (7.7)
	480	30 (762)	40 (1016)	HDS3440-*.**	HDT3440-*.**	17 (7.7)
4000	240	37 (940)	47 (1194)	HDS4247-*.**	HDT4247-*.**	23 (10.4)
	480	37 (940)	47 (1194)	HDS4447-*.**	HDT4447-*.**	23 (10.4)
4500	240	44 (1118)	54 (1372)	HDS4.55254-*.**	HDT4.55254-*.**	24 (10.9)
	480	44 (1118)	54 (1372)	HDS4.55454-*.**	HDT4.55454-*.**	24 (10.9)
5000	240	49 (1245)	59 (1499)	HDS5259-*.**	HDT5259-*.**	25 (11.3)
	480	49 (1245)	59 (1499)	HDS5459-*.**	HDT5459-*.**	25 (11.3)
6000	240	58 (1473)	68 (1727)	HDS6268-*.**	HDT6268-*.**	28 (12.7)
	480	58 (1473)	68 (1727)	HDS6468-*.**	HDT6468-*.**	28 (12.7)



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# HD3

## DERATED TRIPLE METAL OVER THE SIDE HEATER



Watts	Volts	Hot Zone in (mm)	Overall Length in (mm)	316 SS	Titanium	Ship Wt lbs (kg)
1500	120	6 (152)	11 (279)	HD3S1.5111-**-**	HD3T1.5111-**-**	21 (9.5)
	240	6 (152)	11 (279)	HD3S1.5211-**-**	HD3T1.5211-**-**	21 (9.5)
3000	240	10 (254)	17 (432)	HD3S3217-**-**	HD3T3217-**-**	30 (13.6)
	480	10 (254)	17 (432)	HD3S3417-**-**	HD3T3417-**-**	30 (13.6)
4500	240	16 (406)	23 (584)	HD3S4.5223-**-**	HD3T4.5223-**-**	33 (15)
	480	16 (406)	23 (584)	HD3S4.5423-**-**	HD3T4.5423-**-**	33 (15)
6000	240	20 (508)	29 (737)	HD3S6229-**-**	HD3T6229-**-**	39 (17.7)
	480	20 (508)	29 (737)	HD3S6429-**-**	HD3T6429-**-**	39 (17.7)
7500	240	25 (635)	35 (889)	HD3S7.5235-**-**	HD3T7.5235-**-**	45 (20.4)
	480	25 (635)	35 (889)	HD3S7.5435-**-**	HD3T7.5435-**-**	45 (20.4)
9000	240	30 (762)	40 (1016)	HD3S9240-**-**	HD3T9240-**-**	51 (23.1)
	480	30 (762)	40 (1016)	HD3S9440-**-**	HD3T9440-**-**	51 (23.1)
12000	240	37 (940)	47 (1194)	HD3S12247-**-**	HD3T12247-**-**	63 (28.6)
	480	37 (940)	47 (1194)	HD3S12447-**-**	HD3T12447-**-**	63 (28.6)
13500	240	44 (1118)	54 (1372)	HD3S13.5254-**-**	HD3T13.5254-**-**	69 (31.3)
	480	44 (1118)	54 (1372)	HD3S13.5454-**-**	HD3T13.5454-**-**	69 (31.3)
15000	240	49 (1245)	59 (1499)	HD3S15259-**-**	HD3T15259-**-**	75 (34)
	480	49 (1245)	59 (1499)	HD3S15459-**-**	HD3T15459-**-**	75 (34)
18000	240	58 (1473)	68 (1727)	HD3S18268-**-**	HD3T18268-**-**	84 (38.1)
	480	58 (1473)	68 (1727)	HD3S18468-**-**	HD3T18468-**-**	84 (38.1)

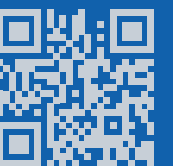
# H/L

## METAL L-SHAPED HEATER

Watts	Volts	Horizontal in (mm)	Standard Vertical in (mm)	316 SS	Titanium	Ship Wt lbs (kg)
1000	120	13 (330)	15 (381)	HLS1113Q-R**-**	HLT1113Q-R**-**	10 (4.5)
	240	13 (330)	15 (381)	HLS1213Q-R**-**	HLT1213Q-R**-**	10 (4.5)
2000	120	17 (432)	19 (483)	HLS2117Q-R**-**	HLT2117Q-R**-**	11 (5)
	240	17 (432)	19 (483)	HLS217Q-R**-**	HLT217Q-R**-**	11 (5)
3000	480	17 (432)	19 (483)	HLS2417Q-R**-**	HLT2417Q-R**-**	11 (5)
	240	22 (559)	25 (635)	HLS3222Q-R**-**	HLT3222Q-R**-**	12 (5.4)
4000	480	22 (559)	25 (635)	HLS3422Q-R**-**	HLT3422Q-R**-**	12 (5.4)
	240	26 (660)	25 (635)	HLS4226Q-R**-**	HLT4226Q-R**-**	13 (5.9)
5000	480	26 (660)	25 (635)	HLS4426Q-R**-**	HLT4426Q-R**-**	13 (5.9)
	240	31 (787)	37 (940)	HLS5231Q-R**-**	HLT5231Q-R**-**	14 (6.4)
6000	480	31 (787)	37 (940)	HLS5431Q-R**-**	HLT5431Q-R**-**	14 (6.4)
	240	36 (914)	50 (1270)	HLS6236Q-R**-**	HLT6236Q-R**-**	15 (6.8)
8000	480	36 (914)	50 (1270)	HLS6436Q-R**-**	HLT6436Q-R**-**	15 (6.8)
	240	44 (1118)	50 (1270)	HLS8244Q-R**-**	HLT8244Q-R**-**	18 (8.2)
9000	480	44 (1118)	50 (1270)	HLS8444Q-R**-**	HLT8444Q-R**-**	18 (8.2)
	240	50 (1270)	50 (1270)	HLS9250Q-R**-**	HLT9250Q-R**-**	20 (9.1)
10000	480	50 (1270)	50 (1270)	HLS9450Q-R**-**	HLT9450Q-R**-**	20 (9.1)
	240	55 (1397)	50 (1270)	HLS10255Q-R**-**	HLT10255Q-R**-**	22 (10)
12000	480	55 (1397)	50 (1270)	HLS10455Q-R**-**	HLT10455Q-R**-**	22 (10)
	480	64 (1626)	50 (1270)	HLS12464Q-R**-**	HLT12464Q-R**-**	25 (11.3)



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# H3L TRIPLE METAL L-SHAPED HEATER



Watts	Volts	Horizontal in (mm)	Standard Vertical in (mm)	316 SS	Titanium	Ship Wt lbs (kg)
3000	240	13 (330)	15 (381)	H3LS3213Q-R*-**	H3LT3213Q-R*-**	30 (13.6)
	480	13 (330)	15 (381)	H3LS3413Q-R*-**	H3LT3413Q-R*-**	30 (13.6)
6000	240	17 (432)	37 (940)	H3LS6217Q-R*-**	H3LT6217Q-R*-**	33 (15)
	480	17 (432)	37 (940)	H3LS6417Q-R*-**	H3LT6417Q-R*-**	33 (15)
9000	240	22 (559)	37 (940)	H3LS9222Q-R*-**	H3LT9222Q-R*-**	36 (16.3)
	480	22 (559)	37 (940)	H3LS9422Q-R*-**	H3LT9422Q-R*-**	36 (16.3)
12000	240	26 (660)	37 (940)	H3LS12226Q-R*-**	H3LT12226Q-R*-**	30 (17.7)
	480	26 (660)	37 (940)	H3LS12426Q-R*-**	H3LT12426Q-R*-**	30 (17.7)
15000	240	31 (787)	37 (940)	H3LS15231Q-R*-**	H3LT15231Q-R*-**	42 (19.1)
	480	31 (787)	37 (940)	H3LS15431Q-R*-**	H3LT15431Q-R*-**	42 (19.1)
18000	240	36 (914)	50 (1270)	H3LS18236Q-R*-**	H3LT18236Q-R*-**	45 (20.4)
	480	36 (914)	50 (1270)	H3LS18436Q-R*-**	H3LT18436Q-R*-**	45 (20.4)
24000	240	44 (1118)	50 (1270)	H3LS24244Q-R*-**	H3LT24244Q-R*-**	54 (24.5)
	480	44 (1118)	50 (1270)	H3LS24444Q-R*-**	H3LT24444Q-R*-**	54 (24.5)
27000	480	50 (1270)	50 (1270)	H3LS27450Q-R*-**	H3LT27450Q-R*-**	60 (27.2)
30000	480	55 (1397)	50 (1270)	H3LS30455Q-R*-**	H3LT30455Q-R*-**	66 (29.9)
36000	480	64 (1626)	50 (1270)	H3LS36464Q-R*-**	H3LT36464Q-R*-**	75 (34)

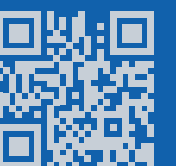
# HDL DERATED METAL L-SHAPED HEATER



Watts	Volts	Horizontal in (mm)	Standard Vertical in (mm)	316 SS	Titanium	Ship Wt lbs (kg)
500	120	13 (330)	15 (381)	HDLS.5113Q-R*-**	HDLT.5113Q-R*-**	10 (4.5)
	240	13 (330)	15 (381)	HDLS.5213Q-R*-**	HDLT.5213Q-R*-**	10 (4.5)
1000	120	17 (432)	19 (483)	HDLS1117Q-R*-**	HDLT1117Q-R*-**	11 (5.0)
	240	17 (432)	19 (483)	HDLS1217Q-R*-**	HDLT1217Q-R*-**	11 (5.0)
1500	120	22 (559)	25 (635)	HDLS1.5122Q-R*-**	HDLT1.5122Q-R*-**	12 (5.4)
	240	22 (559)	25 (635)	HDLS1.5222Q-R*-**	HDLT1.5222Q-R*-**	12 (5.4)
2000	240	26 (660)	25 (635)	HDLS2226Q-R*-**	HDLT2226Q-R*-**	13 (5.9)
	480	26 (660)	25 (635)	HDLS2426Q-R*-**	HDLT2426Q-R*-**	13 (5.9)
2500	240	31 (787)	37 (940)	HDLS2.5231Q-R*-**	HDLT2.5231Q-R*-**	14 (6.4)
	480	31 (787)	37 (940)	HDLS2.5431Q-R*-**	HDLT2.5431Q-R*-**	14 (6.4)
3000	240	36 (914)	50 (1270)	HDLS3231Q-R*-**	HDLT3231Q-R*-**	15 (6.8)
	480	36 (914)	50 (1270)	HDLS3431Q-R*-**	HDLT3431Q-R*-**	15 (6.8)
4000	240	44 (1118)	50 (1270)	HDLS4244Q-R*-**	HDLT4244Q-R*-**	18 (8.2)
	480	44 (1118)	50 (1270)	HDLS4444Q-R*-**	HDLT4444Q-R*-**	18 (8.2)
4500	240	50 (1270)	50 (1270)	HDLS4.5250Q-R*-**	HDLT4.5250Q-R*-**	20 (9.1)
	480	50 (1270)	50 (1270)	HDLS4.5450Q-R*-**	HDLT4.5450Q-R*-**	20 (9.1)
5000	240	55 (1397)	50 (1270)	HDLS5255Q-R*-**	HDLT5255Q-R*-**	22 (10)
	480	55 (1397)	50 (1270)	HDLS5455Q-R*-**	HDLT5455Q-R*-**	22 (10)
6000	240	64 (1626)	50 (1270)	HDLS6264Q-R*-**	HDLT6264Q-R*-**	25 (11.3)
	480	64 (1626)	50 (1270)	HDLS6464Q-R*-**	HDLT6464Q-R*-**	25 (11.3)



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# HD3L DERATED TRIPLE METAL L-SHAPED HEATER



Watts	Volts	Horizontal in (mm)	Standard Vertical in (mm)	316 SS	Titanium	Ship Wt lbs (kg)
1500	120	13 (330)	15 (381)	HD3LS1.5113Q-R*-**	HD3LT1.5113Q-R*-**	30 (13.6)
	240	13 (330)	15 (381)	HD3LS1.5213Q-R*-**	HD3LT1.5213Q-R*-**	30 (13.6)
3000	240	17 (432)	19 (483)	HD3LS3217Q-R*-**	HD3LT3217Q-R*-**	33 (15)
	480	17 (432)	19 (483)	HD3LS3417Q-R*-**	HD3LT3417Q-R*-**	33 (15)
4500	240	22 (559)	25 (635)	HD3LS4.5222Q-R*-**	HD3LT4.5222Q-R*-**	35 (16.3)
	480	22 (559)	25 (635)	HD3LS4.5422Q-R*-**	HD3LT4.5422Q-R*-**	35 (16.3)
6000	240	26 (660)	25 (635)	HD3LS6226Q-R*-**	HD3LT6226Q-R*-**	39 (17.7)
	480	26 (660)	25 (635)	HD3LS6426Q-R*-**	HD3LT6426Q-R*-**	39 (17.7)
7500	240	31 (787)	37 (940)	HD3LS7.5231Q-R*-**	HD3LT7.5231Q-R*-**	42 (19.1)
	480	31 (787)	37 (940)	HD3LS7.5431Q-R*-**	HD3LT7.5431Q-R*-**	42 (19.1)
9000	240	36 (914)	50 (1270)	HD3LS9236Q-R*-**	HD3LT9236Q-R*-**	45 (20.4)
	480	36 (914)	50 (1270)	HD3LS9436Q-R*-**	HD3LT9436Q-R*-**	45 (20.4)
12000	240	44 (1118)	50 (1270)	HD3LS12244Q-R*-**	HD3LT12244Q-R*-**	54 (24.5)
	480	44 (1118)	50 (1270)	HD3LS12444Q-R*-**	HD3LT12444Q-R*-**	54 (24.5)
13500	240	50 (1270)	50 (1270)	HD3LS13.5250Q-R*-**	HD3LT13.5250Q-R*-**	60 (27.2)
	480	50 (1270)	50 (1270)	HD3LS13.5450Q-R*-**	HD3LT13.5450Q-R*-**	60 (27.2)
15000	240	55 (1397)	50 (1270)	HD3LS15255Q-R*-**	HD3LT15255Q-R*-**	66 (29.9)
	480	55 (1397)	50 (1270)	HD3LS15455Q-R*-**	HD3LT15455Q-R*-**	66 (29.9)
18000	240	64 (1626)	50 (1270)	HD3LS18264Q-R*-**	HD3LT18264Q-R*-**	75 (34)
	480	64 (1626)	50 (1270)	HD3LS18464Q-R*-**	HD3LT18464Q-R*-**	75 (34)

# H3V THREE ELEMENT METAL DEEP TANK HEATER

Watts	Volts	Three Tube Length in (mm)	316 SS	Titanium
18000	240	36 (914)	H3VS18236-**	H3VT18236-**
	480	36 (914)	H3VS18436-**	H3VT18436-**
24000	240	44 (1118)	H3VS24344-**	H3VT24344-**
	480	44 (1118)	H3VS24444-**	H3VT24444-**
27000	480	50 (1270)	H3VS27450-**	H3VT27450-**
	480	55 (1397)	H3VS30455-**	H3VT30455-**
36000	480	64 (1626)	H3VS36464-**	H3VT36464-**
	480	77 (1956)	H3VS45477-**	H3VT45477-**
48000	480	82 (2083)	H3VS48482-**	H3VT48482-**
	480	91 (2311)	H3VS54491-**	H3VT54491-**



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# H3LV VERTICAL STACK TRIPLE METAL L-SHAPED HEATER

Watts	Volts	Horizontal in (mm)	Standard Vertical in (mm)	316 SS	Titanium	Ship Wt lbs (kg)
3000	240	13 (330)	15 (381)	H3LVS3213Q-R*-**	H3LVT3213Q-R*-**	30 (13.6)
	480	13 (330)	15 (381)	H3LVS3413Q-R*-**	H3LVT3413Q-R*-**	30 (13.6)
6000	240	17 (432)	19 (483)	H3LVS6217Q-R*-**	H3LVT6217Q-R*-**	33 (15)
	480	17 (432)	19 (483)	H3LVS6417Q-R*-**	H3LVT6417Q-R*-**	33 (15)
9000	240	22 (559)	25 (635)	H3LVS9222Q-R*-**	H3LVT9222Q-R*-**	36 (16.3)
	480	22 (559)	25 (635)	H3LVS9422Q-R*-**	H3LVT9422Q-R*-**	36 (16.3)
12000	240	26 (660)	25 (635)	H3LVS12226Q-R*-**	H3LVT12226Q-R*-**	39 (17.7)
	480	26 (660)	25 (635)	H3LVS12426Q-R*-**	H3LVT12426Q-R*-**	39 (17.7)
15000	240	31 (787)	37 (940)	H3LVS15231Q-R*-**	H3LVT15231Q-R*-**	42 (19.1)
	480	31 (787)	37 (940)	H3LVS15431Q-R*-**	H3LVT15431Q-R*-**	42 (19.1)
18000	240	36 (914)	50 (1270)	H3LVS18236Q-R*-**	H3LVT18236Q-R*-**	45 (20.4)
	480	36 (914)	50 (1270)	H3LVS18436Q-R*-**	H3LVT18436Q-R*-**	45 (20.4)
24000	240	44 (1118)	50 (1270)	H3LVS24244Q-R*-**	H3LVT24244Q-R*-**	54 (24.5)
	480	44 (1118)	50 (1270)	H3LVS24444Q-R*-**	H3LVT24444Q-R*-**	54 (24.5)
27000	480	50 (1270)	50 (1270)	H3LVS27450Q-R*-**	H3LVT27450Q-R*-**	60 (27.2)
30000	480	55 (1397)	50 (1270)	H3LVS30455Q-R*-**	H3LVT30455Q-R*-**	66 (29.9)
36000	480	64 (1626)	50 (1270)	H3LVS36464Q-R*-**	H3LVT36464Q-R*-**	75 (34)



# H3HS THREE ELEMENT 316 STAINLESS STEEL HEATER

Watts	Volts	Hot Zone in (mm)	Length in (mm)	Model Number	Ship Wt lbs (kg)
3000	240	11 (279)	17 (432)	H3HS3217-**	9 (4.1)
	480	11 (279)	17 (432)	H3HS3417-**	9 (4.1)
4500	240	16 (406)	23 (584)	H3HS4.5223-**	10 (4.5)
	480	16 (406)	23 (584)	H3HS4.5423-**	10 (4.5)
7500	240	21 (533)	29 (737)	H3HS7.5229-**	12 (5.4)
	480	21 (533)	29 (737)	H3HS7.5429-**	12 (5.4)
10500	240	26 (660)	34 (864)	H3HS10.5234-**	14 (6.4)
	480	26 (660)	34 (864)	H3HS10.5434-**	14 (6.4)

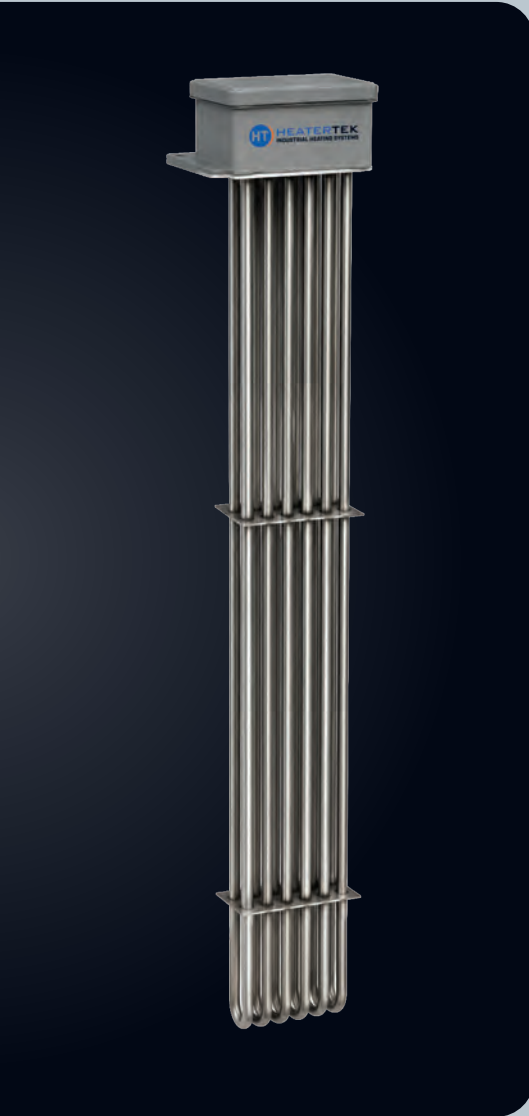


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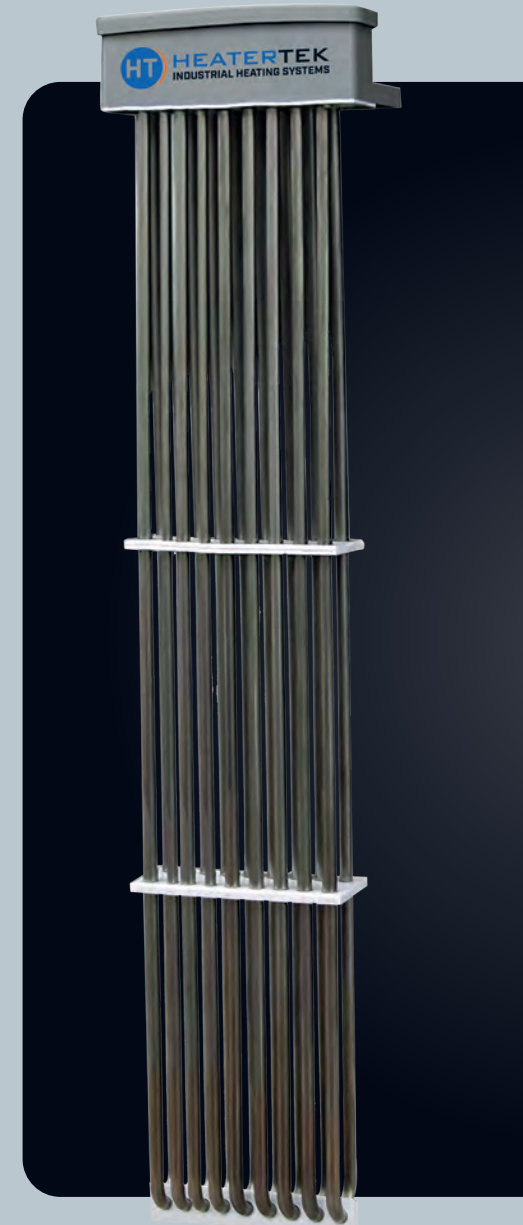
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# H6HS SIX ELEMENT 316 STAINLESS STEEL HEATER






Watts	Volts	Hot Zone in (mm)	Length in (mm)	Model Number	Ship Wt lbs (kg)
6000	240	10 (254)	17 (432)	H6HS6217-**	12 (5.4)
	480	10 (254)	17 (432)	H6HS6417-**	12 (5.4)
9000	240	16 (406)	23 (584)	H6HS9223-**	13 (5.9)
	480	16 (406)	23 (584)	H6HS9423-**	13 (5.9)
15000	240	20 (508)	29 (737)	H6HS15229-**	16 (7.3)
	480	20 (508)	29 (737)	H6HS15429-**	16 (7.3)
21000	240	25 (635)	34 (864)	H6HS21234-**	18 (8.2)
	480	25 (635)	34 (864)	H6HS21434-**	18 (8.2)

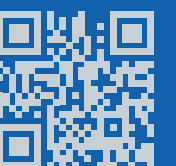
# H9HS NINE ELEMENT 316 STAINLESS STEEL HEATER



Watts	Volts	Hot Zone in (mm)	Length in (mm)	Model Number	Ship Wt lbs (kg)
9000	240	10 (254)	17 (432)	H9HS9217-**	16 (7.3)
	480	10 (254)	17 (432)	H9HS9417-**	16 (7.3)
13500	240	16 (406)	23 (584)	H9HS13.5223-**	19 (8.6)
	480	16 (406)	23 (584)	H9HS13.5423-**	19 (8.6)
22500	240	20 (508)	29 (737)	H9HS22.5229-**	23 (10.4)
	480	20 (508)	29 (737)	H9HS22.5429-**	23 (10.4)
31500	240	25 (635)	34 (864)	H9HS31.5234M-**	25 (11.3)
	480	25 (635)	34 (864)	H9HS31.5434-**	25 (11.3)



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# TEMPERATURE CONTROLS

- For accurate control of most aqueous chemistries
- 10-foot FEP fluoropolymer covered RTB thermocouple sensor included (consult factory for other options)
- 85-480 VAC input



## COMBO CONTROLS (SIZED PER HEATER LOAD)

- cULus (upon request)
- 20 A, 40 A, 80 A, and 120 A switching capacity
- Plastic control box for corrosion resistance
- High temperature audible alarm with locking relay and push reset included (requires Thermal Protector wiring to heater)
- Additional cost: conductivity probe level control or digital timers (NOTE: conductivity probe device must be purchased separately)
- Consult factory for additional options

## THERMOSTATS

- 1/4 DIN Single Set Point Controller, cUL
- 1/8 DIN Single Set Point Controller, cUL
- Non DIN (1.3"X3" approximate cutout) Single Set Point Controller, cUL/us
- 1/16 DIN Dual Display and Dual Setpoint Controller, cUL

## NOTE

**ALL** immersion heater installations are strongly recommended to include both liquid level control for low level heater shut off **AND** over-temperature thermal protection

## PRECISION TEMPERATURE CONTROL

HeaterTek temperature control systems are designed to provide accurate, dependable performance for a wide range of industrial heating applications. Engineered for process stability and ease of operation, these systems help maintain consistent temperatures across demanding environments and aqueous chemistries.

Flexible control configurations, fast response times, and clear monitoring capabilities allow operators to maintain efficient process control while improving overall system reliability. Integrated safety features and industrial-grade construction support dependable long-term operation, even in corrosive and high-temperature environments.

Designed with both performance and usability in mind, HeaterTek controls deliver reliable operation and adaptable solutions for a broad range of heating requirements.

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# ABOUT HEATERTEK

HeaterTek is a trusted provider of high-performance industrial immersion heaters, coils, and controls designed to meet the demanding requirements of the metal finishing and industrial processing industries. With a strong focus on quality, reliability, and fast delivery, HeaterTek offers a broad range of electric heating solutions engineered for long service life and dependable performance in corrosive and high-temperature environments. Backed by experienced technical support and extensive product expertise, HeaterTek partners with customers to deliver efficient, cost-effective heating solutions that keep operations running smoothly and productively.




# CONTACT

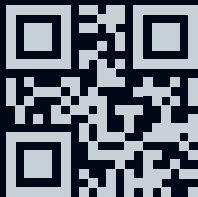
Are you interested in our products or do you have a question regarding an application?

We are happy to provide personal consultation and support you in finding the right solution for your project.

**We look forward to hearing from you!**



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