



High- and Low-Watt-Density Cartridge Heaters

HIGH-WATT-DENSITY
Tempco

- 321 stainless steel sheath tolerates high temps.
- Sheath dia. tolerance: ±0.002"

Vulcan, Thunderbolt — Operate up to 5 times the watt density of standard cartridge heaters.

- Corrosion-resistant alloy sheath
- Sheath dia. tolerance: +0.000" to -0.004"

LOW-WATT-DENSITY — Corrosion-resistant 304 stainless steel sheath

Excellent for insertion into dies, molds, and platens.

4NKH1



Tempco
 ■ Sheath dia. tolerance: ±0.002"

Vulcan
 ■ Sheath dia. tolerance: +0.000" to -0.004"



				120V AC		240V AC	
				Mr. Model	Item No.	Mr. Model	Item No.
Tempco, High-Watt-Density, 10 in Leads, Max. Temp. 1,400°F							
1/4 in	1 1/4 in	25	90W/sq in	HDC19100	4NH6	—	—
1/4 in	1 1/4 in	50	180W/sq in	HDC19102	4NH8	—	—
1/4 in	1 1/2 in	30	80W/sq in	HDC19103	4NH9	—	—
1/4 in	1 1/2 in	60	160W/sq in	HDC19104	4NH21	—	—
1/4 in	1 in	80	204W/sq in	HDC00002	4NJA3	—	—
1/4 in	1 in	100	255W/sq in	HDC00003	4NJA4	HDC00004	4NJA5
1/4 in	1 1/2 in	100	127W/sq in	HDC00016	4NJA6	—	—
1/4 in	1 1/2 in	200	255W/sq in	HDC00022	4NJA8	HDC00023	4NJA9
1/4 in	2 in	100	85W/sq in	HDC00030	4NJC1	—	—
1/4 in	2 in	250	212W/sq in	HDC00038	4NJC2	—	—
1/4 in	2 1/2 in	250	159W/sq in	HDC00045	4NJC3	HDC00046	4NJC4
1/4 in	3 in	100	51W/sq in	HDC00050	4NJC5	—	—
1/4 in	3 1/2 in	300	127W/sq in	HDC00063	4NJC9	—	—
1/4 in	4 in	200	73W/sq in	HDC00070	4NJD1	—	—
1/4 in	4 in	300	109W/sq in	HDC00074	4NJD2	HDC00075	4NJD3
1/4 in	4 1/2 in	350	111W/sq in	HDC20500	4NJD4	—	—
1/4 in	8 in	600	102W/sq in	—	—	HDC00102	4NJE2
3/8 in	1 in	100	170W/sq in	HDC00127	4NJE4	—	—
3/8 in	1 1/2 in	250	212W/sq in	HDC00157	4NJE6	HDC00158	4NJE7
3/8 in	2 in	400	226W/sq in	HDC00184	4NJE8	HDC00185	4NJE9
3/8 in	3 in	250	85W/sq in	HDC00242	4NJE3	HDC00243	4NJE4
3/8 in	3 in	500	170W/sq in	HDC00251	4NJE6	HDC00252	4NJE6
3/8 in	3 1/2 in	350	99W/sq in	HDC00263	4NJE7	HDC00264	4NJE8
3/8 in	4 in	250	61W/sq in	HDC00279	4NJE9	HDC00280	4NJE1
3/8 in	4 in	500	121W/sq in	HDC00289	4NJE2	HDC00290	4NJE3
3/8 in	5 in	300	57W/sq in	HDC00317	4NJE4	HDC00318	4NJE5
3/8 in	6 in	300	46W/sq in	HDC00347	4NJE6	HDC00348	4NJE7
3/8 in	6 in	750	116W/sq in	HDC00356	4NJE8	HDC00357	4NJE9
3/8 in	7 in	250	33W/sq in	HDC00365	4NJE1	HDC00366	4NJE2
3/8 in	7 in	600	78W/sq in	HDC00370	4NJE3	HDC00371	4NJE4
3/8 in	7 in	1,000	131W/sq in	—	—	HDC00375	4NJE5
3/8 in	8 in	300	34W/sq in	HDC00382	4NJE6	HDC00383	4NJE7
3/8 in	8 in	400	170W/sq in	HDC00453	4NJE3	—	—
3/8 in	8 in	400	136W/sq in	HDC00545	4NJE6	HDC00546	4NJE6
3/8 in	8 in	750	106W/sq in	HDC00578	4NJE7	HDC00579	4NJE8
3/8 in	6 in	500	58W/sq in	HDC00603	4NJE9	HDC00604	4NJE1
3/8 in	6 in	750	87W/sq in	HDC00606	4NJE2	HDC00607	4NJE3
3/8 in	6 in	1,000	116W/sq in	—	—	HDC00613	4NJE4
3/8 in	8 in	500	42W/sq in	HDC00642	4NJE5	HDC00643	4NJE6
3/8 in	8 in	1,000	85W/sq in	—	—	HDC00651	4NJE7
3/8 in	8 in	1,500	127W/sq in	—	—	HDC00654	4NJE8
3/8 in	10 in	1,000	67W/sq in	—	—	HDC00675	4NJE1
3/8 in	3 in	500	102W/sq in	HDC00755	4NJE4	HDC00756	4NJE5
3/8 in	6 in	1,000	93W/sq in	—	—	HDC00810	4NJE8
3/8 in	8 in	1,500	102W/sq in	—	—	HDC00842	4NJE1
3/8 in	10 in	2,000	89W/sq in	—	—	HDC00979	4NJE7
Tempco, High-Watt-Density, 12 in Leads, Includes 10 in Braid On Leads, Max. Temp. 1,400°F							
1/4 in	1 in	100	255W/sq in	HDC20468	4NJE9	—	—
1/4 in	1 1/4 in	40	58W/sq in	HDC20530	4NJE2	—	—
1/4 in	1 1/2 in	200	255W/sq in	HDC20559	4NJE8	HDC20561	4NJE5
1/4 in	2 in	100	85W/sq in	HDC20534	4NJE7	—	—
1/4 in	3 in	300	153W/sq in	HDC07930	4NJE5	HDC20539	4NJE6
1/4 in	4 in	300	109W/sq in	HDC20542	4NJE9	HDC20543	4NJE1
1/4 in	7 in	500	100W/sq in	HDC20575	4NJE7	HDC20546	4NJE8
1/4 in	10 in	750	101W/sq in	—	—	HDC13361	4NJE1
3/8 in	1 1/4 in	150	172W/sq in	—	—	HDC20552	4NJE7
3/8 in	1 1/2 in	250	212W/sq in	HDC20562	4NJE9	HDC17036	4NJE1
3/8 in	2 in	150	86W/sq in	HDC10584	4NJE2	HDC20555	4NJE3
3/8 in	2 in	200	115W/sq in	HDC17278	4NJE4	HDC20556	4NJE5
3/8 in	2 in	400	226W/sq in	HDC20563	4NJE6	HDC20565	4NJE7
3/8 in	2 1/2 in	500	212W/sq in	HDC20576	4NJE1	HDC20567	4NJE2
3/8 in	3 in	500	170W/sq in	HDC20577	4NJE5	HDC18241	4NJE6
3/8 in	3 1/2 in	350	99W/sq in	HDC20558	4NJE7	—	—
3/8 in	4 in	250	61W/sq in	—	—	HDC13036	4NJE1
3/8 in	4 in	500	121W/sq in	HDC04315	4NJE4	HDC05557	4NJE5
3/8 in	5 in	300	57W/sq in	HDC12441	4NJE8	—	—
3/8 in	5 in	500	96W/sq in	HDC05260	4NJE8	HDC04552	4NJE9
3/8 in	6 in	500	79W/sq in	HDC20570	4NJE3	HDC20571	4NJE5
3/8 in	6 in	750	79W/sq in	HDC20578	4NJE4	—	—
3/8 in	7 in	250	33W/sq in	HDC06130	4NJE7	HDC20579	4NJE8

				120V AC		240V AC	
				Mr. Model	Item No.	Mr. Model	Item No.
Vulcan, High-Watt-Density Thunderbolt, 10 in Leads, Max. Temp. 1,600°F							
3/8 in	1 1/4 in	100	115W/sq in	TB380A	2E905	TB380B	2E906
3/8 in	1 1/4 in	150	172W/sq in	TB3815A	2E907	TB3815B	3HR37
3/8 in	1 1/2 in	100	86W/sq in	TB381A	2E908	—	—
3/8 in	2 in	150	85W/sq in	TB3816A	2E909	TB3816B	3HR38
3/8 in	2 in	200	114W/sq in	TB3821A	2E910	TB3821B	3HR48
3/8 in	2 1/2 in	200	85W/sq in	TB3035A	3HP98	—	—
3/8 in	4 in	300	73W/sq in	TB386A	2E911	TB386B	2E913
3/8 in	5 in	500	95W/sq in	TB3070A	3HR18	TB3070B	3HR19
3/8 in	6 in	500	77W/sq in	TB388A	3HR55	TB388B	3HR56
1/2 in	1 1/2 in	150	96W/sq in	TB501A	2E914	—	—
1/2 in	2 in	200	85W/sq in	TB5013A	2E914	—	—
1/2 in	2 1/4 in	280	102W/sq in	TB503A	2E915	—	—
1/2 in	2 1/2 in	500	160W/sq in	TB5046A	3HR78	—	—
1/2 in	3 in	250	64W/sq in	TB505A	3HR88	TB505B	3HR89
1/2 in	3 in	400	102W/sq in	—	—	TB5015B	3HR63
1/2 in	4 in	250	46W/sq in	TB5065A	3HR90	—	—
1/2 in	4 in	550	100W/sq in	TB506A	2E916	TB506B	3HR95
1/2 in	5 in	500	71W/sq in	TB507A	2E917	TB507B	3HT01
5/8 in	4 in	550	80W/sq in	TB6214A	3HT50	TB6214B	2E918
5/8 in	5 in	500	57W/sq in	—	—	TB6025B	3HT36
5/8 in	6 in	500	46W/sq in	—	—	TB6031B	3HT37
3/4 in	6 in	1,000	77W/sq in	—	—	TB703B	3HT64
Tempco, Low-Watt-Density, 10 in Leads, Max. Temp. 1,200°F							
3/16 in	1 1/2 in	20	30W/sq in	LDC00002	4NKH6	—	—
3/16 in	3 in	45	29W/sq in	LDC00005	4NKH7	—	—
1/4 in	2 in	32	27W/sq in	LDC00015	4NKH1	—	—
1/4 in	4 in	100	36W/sq in	LDC00022	4NKH4	—	—
1/4 in	6 in	150	35W/sq in	LDC00025	4NKH5	—	—
3/8 in	2 in	60	31W/sq in	LDC01951	4NKH8	—	—
3/8 in	2 1/2 in	80	32W/sq in	LDC01952	4NKH9	—	—
3/8 in	4 1/2 in	150	32W/sq in	LDC00051	4NKH2	—	—
3/8 in	6 in	250	39W/sq in	LDC00061	4NKH3	—	—
1/2 in	5 in	200	28W/sq in	LDC00106	4NKH8	LDC00107	4NKH9
5/8 in	3 in	175	36W/sq in	LDC00171	4TCR4	—	—
5/8 in	5 in	250	28W/sq in	LDC00183	4TCR5	—	—
Vulcan, Low-Watt-Density, 10 in Leads, Max. Temp. 900°F							
3/8 in	1 1/2 in	50	42W/sq in	C3910A	2E890	—	—
3/8 in	2 1/2 in	75	34W/sq in	C3830A	2E891	—	—
3/8 in	3 in	100	34W/sq in	C3840A	2E892	—	—
3/8 in	4 in	150	36W/sq in	C3930A	2E893	—	—
3/8 in	5 in	200	38W/sq in	C3940A	2E894	—	—
1/2 in	2 in	100	42W/sq in	C5180A	2E895	—	—
1/2 in	6 in	300	35W/sq in	C5170A	2E896	C5170B	2E897
3/8 in	2 1/2 in	150	41W/sq in	C6360A	2E898	—	—
3/8 in	4 1/2 in	240	31W/sq in	C627A	3HJ87	—	—
3/8 in	7 in	350	27W/sq in	C692A	3HJ84	—	—
3/4 in	4 in	300	36W/sq in	C766A	3HK06	—	—
3/4 in	8 in	500	28W/sq in	C758A	3HJ97	C758B	3HJ98
1 in	6 1/2 in	600	33W/sq in	C9770A	3HK10	—	—



Silicone Rubber and Tubular Enclosure Heaters

Protect enclosures against condensation, humidity, and freezing. Mount heater vertically at the bottom of the enclosure.

Silicone Rubber

- Silicone rubber vulcanized to aluminum mounting plate
- 1/2" H with mounting flange
- 48" leads
- Mounting holes 0.015" oblong 3/32" x 14"

Tubular

- Corrosion-resistant housing
- 3/8" H x 1 1/8" W x 8 3/8" L
- Mount via perforated holes in housing

Remote Thermostats—Can be placed anywhere in the enclosure and secured with pressure-sensitive adhesive.

- Silicone rubber base and enclosure
- 10A/250VAC, 15A/120VAC ■ 48" leads

1-Phase				T-Stat Closes 40°F, Opens 60°F		T-Stat Closes 110°F, Opens 140°F		T-Stat Closes 150°F, Opens 180°F	
hoses in housing				Mr. Model	Item No.	Mr. Model	Item No.	Mr. Model	Item No.
Silicone Rubber Enclosure Heaters, 120V AC, 1-Phase									
L	Mounting Dim.	Watts	W						
6 in	4 in	60 W	2 ½ in	EHR00007	2PCH8	EHR00008	2PCH9	EHR00009	2PCJ1
12 in	9 in	120 W	2 ½ in	EHR00014	2PCJ2	EHR00015	2PCJ3	EHR00016	2PCJ4
10 in	7 in	250 W	4 ½ in	EHR00019	2PCJ5	EHR00029	2PCJ6	EHR00030	2PCJ7
With Thermostat and Cord				Without Thermostat or Cord					
Watts	Heater Voltage	Mr. Model	Item No.	Mr. Model	Item No.	Control Range (°F)		Mr. Model	Item No.
Tubular Enclosure Heaters, 1-Phase				Remote Thermostats, 120 to 240V AC, 15°F Diff.					
100 W	120V AC	EHT00030	4TCX7	EHT00029	4TCX8	Open At 50, Close At 32		EHA00009	6HTY9
150 W	120V AC	EHT00032	4TCX9	EHT00031	4TCY1	Open At 60, Close At 40		EHA00001	6THU0
250 W	120V AC	EHT00034	4TCY2	EHT00033	4TCY3	Open At 140, Close At 110		EHA00002	6THU1
350 W	120V AC	EHT00036	4TCY4	EHT00035	4TCY5	Open At 180, Close At 150		EHA00003	6THU2
500 W	120V AC	EHT00038	4TCY6	EHT00037	4TCY7				
500 W	240V AC	—	—	FHT00039	4TCY9				