		ENSITY		Vulcan,	INT**		sion-resistant					- Care		ΤΕΩΙ	
mpco Thunderbolt™— 321 stainless steel sheath tolerates high temps. Operate up to 5 times the watt density of st Sheath dia. tolerance: ±0.002" dard cartridge heater							alloy sheath Sheath dia.		<ul> <li>Corrosion-resistant</li> </ul>			12			ulco
								304 stainless			Tempc			Vulcan	
											Sheat			Sheath dia. 1	tolerance
nea	ui uia.	LOIEFAILCE	: ±0.002							sertion into		ince: ±0.0		+0.000" to -	
			Watt	Mfr.	20V AC Item	Mfr. 24	OV AC Item	dies, mo	lds, and	d platens.			20V AC	24	10V AC
ia.	L	Watts	Density	Mfr. Model	No	Model	No.	D:-		W-H-	Watt	Mfr.	Item	Mfr.	Item
npco, s in	, Hign-wa 1 ¼ in	25	, 10 in Leads 90W/sq in 180W/sq in	HDC19100	4NHY6			<b>Dia.</b> ⅔ in	L 8 in	Watts 300	34W/sa in	Model HDC20586	No. 4NJZ3	Model HDC20587	No. 4NLJ2
a in a in	1 ¼ in 1 ½ in	50 30	180W/sq in	HDC19102	4NHY8 4NHY9		_	3% in 1/2 in	8 in 1 ½ in	600			4NJZ8	HDC02169 HDC20591	4NJZ4 4NJZ9
s in s in	1 1/2 in	60	160W/sq in	HDC19103	4NH79		_	1/2 in 1/2 in	2 in 2 in	200 400	86W/sq in	HDC20590 HDC06277	4NJ20		_
⊧in ⊧in	1 in 1 in	80 100	204W/sq in 255W/sq in	HDC00002	4NJA3 4NJA4	 HDC00004	4NJA5	1/2 in 1/2 in	2 in 2 ½ in	400 500	170W/sq in 161W/sq in		4NKA5	HDC20592	4NKA2
in in	1 ½ in 1 ½ in	100 200	127W/sq in	HDC00016	4NJA6 4NJA8	_		1/2 in	3 in 3 in	250 400	64W/sq in	HDC20595 HDC09950	4NKA7	HDC05788 HDC20597	4NKA8
in in	1 ½ in 2 in	200	255W/sq in 85W/sq in	HDC00022	4NJA8 4NJC1	HDC00023	4NJA9	1/2 in 1/2 in	3 in 3 in	400	104W/SQ IN 193W/sg in		_	HDC20597	4NKA9 4NKC1
i in	2 in	250 250	212W/sq in	HDC00038	4NJC2		_	1/2 in	4 in	400	74W/sq in	HDC20600 HDC20602		HDC20599	4NKC3
in in	2 ½ in 3 in	100	159W/sq in 51W/sq in	HDC00045 HDC00050	4NJC3 4NJC5	HDC00046	4NJC4	1/2 in 1/2 in	4 in 4 in	550 750	100W/sq in 136W/sg in	HDC20600 HDC20602	4NKC4 4NKC6	HDC20601 HDC20603	4NKC5 4NKC7
in i	3 1/2 in	300	127W/sq in	HDC00063	4NJC9 4NJD1		_	1/2 in	5 in 5 in	500	72W/sq in	HDC20604	4NKC8	HDC07791	4NKC9
in in	4 in 4 in	200 300	109W/sq in	HDC19102 HDC19103 HDC19104 HDC00002 HDC00016 HDC00022 HDC00038 HDC00045 HDC00063 HDC00063 HDC00063 HDC00070 HDC00074 HDC0074	4NJD1 4NJD2	HDC00075	4NJD3	1/2 in 1/2 in	5 in 6 in	750 500	58W/sq in	HDC20602 HDC20604 HDC20605 HDC04549	4NKD1 4NKD3	HDC20597 HDC17175 HDC20599 HDC20601 HDC20603 HDC20603 HDC20606 HDC20607 HDC20607 HDC20609 HDC20609	4NKD2 4NKD4
in	4 ½ in 8 in	350	111W/sq in	HDC20560 HDC00127 HDC00157 HDC00157 HDC00242 HDC00242 HDC00243 HDC00258 HDC00258 HDC00370 HDC00365 HDC00370 HDC00382 HDC00382 HDC00382 HDC00453 HDC00453 HDC00578 HDC00578 HDC00578 HDC00578 HDC00578 HDC00578 HDC00578 HDC00606	4NJD4	HDC00102	4NJE2	1/2 in	6 in	1,000	116W/sq in			HDC04715	
in in	1 in	600 100	170W/sq in	HDC00127	4NJE4		-	1/2 in	10 in	500 500	34W/sq in		411KU0	HDC20609 HDC09890 HDC13055 HDC20626 emp. 1,600°F TB380B	4NKD9 4NKE3
in in	1 ½ in 2 in	100 250 400	212W/sq in	HDC00157	4NJE6 4NJE8	HDC00158 HDC00185 HDC00243	4NJE7 4NJE9	1/2 in	10 in	1,000	67W/sq in		_	HDC13055	4NKE4 4NKE6
in 🛛	3 in	250	85W/sq in	HDC00242	4NJF3	HDC00243	4N.IF4	Vulcan,	High-Wa	tt-Density Th	nunderbolt™	, 10 in Lead	s, Max. T	emp. 1,600°F	411110
in in	3 in 3 ½ in	500 350	170W/sq in	HDC00251	4NJF5 4NJF7 4NJF9	HDC00252 HDC00264	4NJF6 4NJF8	3/8 in 3/8 in	1 1/4 in 1 1/4 in	100 150	115W/sq in	, TO III Leau TB380A TB3815A TB3816A TB3816A TB3821A TB3035A TB386A	2E905 2E907	TB380B TB3815B	2E906 3HR37
in 🛛	4 in	250	61W/sq in	HDC00279	4NJF9	HDC00280 HDC00290	4NJG1	3⁄8 in	1 1/2 in	100	86W/sq in	TB381A	2E908	_	_
in in	4 in 5 in	500 300	121W/sq in	HDC00289	4NJG2 4NJG4	HDC00290	4NJG3 4NJG5	3/8 in 3/8 in	2 in 2 in	150 200	85W/sq in	TB3816A	2E909 2E910	TB3816B TB3821B	3HR38 3HR48
in 🛛	6 in	300	46W/sq in	HDC00347	4NJG6	HDC00318 HDC00348	4NJG7	3⁄8 in	2 in 2 in 2 ½ in	200	85W/sq in	TB3035A	3HP98		_
s in s in	6 in 7 in	750 250	116W/sq in 33W/sg in	HDC00356 HDC00365	4NJG8 4NJH1	HDC00357	4NJG9 4NJH2	3/8 in 3/8 in	4 in 5 in	300 500 500 150 200	73W/sq in 95W/sq in		2E911 3HR18	TB386B TB3070B	2E913 3HR19
in	7 in 7 in	600	78W/sq in	HDC00370	4NJH1 4NJH3	HDC00366 HDC00371	4N.IH4	3⁄8 in	6 in	500	//W/sg in	1B388A	3HR55	TB388B	3HR56
in in	7 in 8 in	1,000 300	131W/sq in 34W/sq in	HDC00382	4NJH6	HDC00375 HDC00383	4NJH5 4NJH7	1/2 in 1/2 in	1 ½ in 2 in	200	96W/sq in 85W/sq in	TB501A TB5013A	3HR64 2E914		
2 in	2 in	400	170W/sq in	HDC00453	4NJJ3 4NJJ5		_	1/2 in	2 1/4 in 2 1/2 in	280	102\W/ea in	TR503A	2E915	—	_
in in	4 in 5 in	750	136W/sq in 106W/sg in	HDC00545 HDC00578	4NJJ5 4NJJ7	HDC00546 HDC00579 HDC00604	4NJJ6 4NJJ8	1/2 in 1/2 in	2 ½ in 3 in	500 250	160W/sq in 64W/sq in 102W/sq in	TB5046A	3HR78 3HR88		3HR89
in :	6 in	500	58W/sq in	HDC00603	4NJJ9	HDC00604	4NJK1	1/2 in	3 in	400	102W/sq in	-	_	TB5015B	3HR63
in in	6 in 6 in	750 1,000	116W/sq in	HDC00606	4NJK2	HDC00607 HDC00613	4NJK3 4NJK4	1/2 in 1/2 in	4 in 4 in	250 550	46W/sq in 100W/sq in	TB5065A TB506A	3HR90 2E916		3HR95
2 in	8 in	500	42W/sq in	HDC00642	4NJK5	HDC00643	4NJK6	1/2 in	5 in	500	71W/sq in	TB507A	2E917	TB507B	3HT01
in in	8 in 8 in	1,000 1,500	85W/sq in 127W/sq in			HDC00651 HDC00654	4NJK7 4NJK8	5% in 5% in	4 in 5 in	550 500	80W/sq in 57W/sq in	TB6214A	3HT50	TB6214B TB6025B	2E918 3HT36
in in	10 in	1,000 500	67W/sg in	— HDC00755	4NJL4	HDC00675 HDC00756	4NJL1 4NJL5	5/8 in	6 in 6 in	500 1,000	57W/sq in 46W/sq in	-	—	TB6031B	3HT37 3HT64
in 🛛	3 in 6 in	1,000 1,500	93W/sq in 102W/sq in	HDC00755	4NJL4	HDC00810	4NJL8	3/4 in Tempco,	Low-Wa	1,000 Itt-Density, 1 20	77W/sq in 0 in Leads,	Max. Temp. LDC00002	1,200°F	TB703B	30104
in	8 in	1,500	102W/sq in		_	HDC00842	4N.IN1	3/16 in 3/16 in	1 ½ in 3 in	20	30W/sq in	LDC00002	4NKH6 4NKH7		
npco,	, High-W	att-Density	, 12 in Leads	, Includes 1	0 in Braid On	HDC00979 Leads, Max. Te	emp. 1,400°F	<sup>3/16</sup> in 1/4 in	2 in	45 32	27W/sq in	LDC00005 LDC00015	4NKH1		_
in in in	1 in 1 ¼ in	100 40	255W/sq in 58W/sq in	HDC20468 HDC20530	4NJN9 4NJP2			1/4 in 1/4 in	4 in 6 in	100 150	36W/sq in 35W/sq in	LDC00022	4NKH4 4NKH5		
in	1 ½ in	200	255W/sq in	HDC20468 HDC20530 HDC20559 HDC20534 HDC07930 HDC20542 HDC20575	4NJW8	HDC20561	4NJP5	3⁄8 in	6 in 2 in	60	31W/sq in	LDC00022 LDC00025 LDC01951	411/110	-	_
in in	2 in 3 in	100 300	85W/sq in 153W/sg in	HDC20534 HDC07930	4NJP7 4NJR5	HDC20539	4NJR6	3/8 in 3/8 in	2 ½ in 4 ½ in	80 150	32W/sq in 32W/sq in	LDC01952	4NKH9 4NKJ2		
in	3 in 4 in	300	109W/sq in	HDC20542	4NJR5 4NJR9	HDC20543 HDC20546	4NJT1	3/8 in 1/2 in	6 in 5 in	250 200	39W/sq in	LDC00061	4NKJ3	 LDC00107	4NKJ9
in in	7 in 10 in	500 750	100W/sq in 101W/sq in	muu205/5	4NJT7	HDC13361	4NJT8 4NJU1	5⁄8 in	3 in	175	26W/sq in	LDC00106	4NKJ8 4TCR4	_	4NKJ9
in	1 ¼ in 1 ½ in	150 250	172W/sq in	HDC20562 HDC10584 HDC10584 HDC17278 HDC20563 HDC20576 HDC20577 HDC20577 HDC20578 	4NJU9	HDC13361 HDC20552 HDC17036	4NJU7 4NJV1	5% in Vulcan,	5 in	250 t-Density, 10	28W/sq in	LDC01951 LDC01952 LDC00051 LDC00061 LDC00106 LDC00171 LDC00183 Max. Temp.	4TCR5		-
in	2 in	150	86W/sq in	HDC10584	4NJU9 4NJV2	HDC20555	4N.IV3	3/8 in	1 1/2 in	50	42W/sq in	C3910A			_
in in	2 in 2 in 2 in	200 400	115W/sq in 226W/sq in	HDC17278	4NJV4 4NJV6	HDC20556 HDC20565	4NJV5 4NJV7	3/8 in 3/8 in	2 % in 3 in	75 100	42W/sq in 34W/sq in 34W/sq in	C3830A	2E891 2E892		
in in	2 ½ in	500	212W/sq in	HDC20576	4NJW1	HDC20567	4NJW2	3/8 in	4 in	150	36W/sq in	C3930A	2E893		
in in	3 in 3 ½ in	500 350	170W/sq in 99W/sq in	HDC20577 HDC20558	4NJW5 4NJW7	HDC18241	4NJW6	3/8 in 1/2 in	5 in 2 in	200	38W/sq in 42W/sq in	C3940A	2E894 2E895		
in 🛛	4 in	250	61W/sq in			HDC13036	4NJX1	1/2 in	6 in	300	36W/sq in 36W/sq in 38W/sq in 42W/sq in 35W/sq in	C3930A C3940A C5180A C5170A	2E896	C5170B	2E897
s in s in	4 in 5 in	500 300	121W/sq in 57W/sq in		4NJX4 4NJX6	HDC05557	4NJX5	5% in 5% in	2 3/8 in 4 1/2 in		41W/sq in 31W/sq in 27W/sq in	C6360A C627A C692A	2E898 3HJ87		
in	5 in	500	96W/sq in	HDC05260	4NJX8	HDC04521	4NJX9	5/8 in	7 in	240 350 300 500	27W/sq in	C692A	3HJ94	-	_
in in	6 in 6 in	500 750	79W/sq in	HDC20570	4NJY3 4NJY4	HDC20571	4NJY5	3/4 in 3/4 in	4 in 8 in	300	36W/sq in 28W/sq in 33W/sq in	C766A	3HK06 3HJ97	 C758B	3HJ98
in	7 in	250	33W/cg in	HDC06130	4NJY7	HDC20579	4NJY8	1 in	6 3/8 in	600	22W//og in	007704	3HK10		



### 4TCX7 Silicone Rubber and **Tubular Enclosure Heaters**

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

....

3066

## Silicone Rubber

- aluminum mounting plate
- 48" leads

**GRAINGER**®

- Mounting holes 0.C.:
  - oblong 5/32" x 14"

#### Tubular

500 W 240V AC

Corrosion-resistant housing

Mount via perforated

- enclosure and secured with pressure-sensitive adhesive. 35/8"H x 19/16"W x 83/8"L
  - Silicone rubber base and enclosure

Remote Thermostats-Can be placed anywhere in the

Scan. Order. Done. Details on page A1.

- 10A/250VAC, 15A/120VAC = 48" leads
- T-Stat Closes 40°F, Opens 60°F Mfr. Item T-Stat Closes 150°F, Opens 180°F Mfr. Item holes in housing T-Stat Closes 110°F, Opens 140°F Mounting Mfr Item Watts No. Model Model No. L Dim. w Model No. 
   Silicone Rubber Enclosure Heaters, 120V AC, 1-Phase

   6 in
   4 in
   60 W
   2 ½ in
   EHR0000

   12 in
   9 in
   120 W
   2 ½ in
   EHR0000
   EHROOOC 2PCH8 EHR00008 2PCH9 EHR00009 2PCJ<sup>-</sup> 1/2 in EHR00014 EHR00019 2PCJ2 2PCJ5 EHR00015 EHR00029 2PCJ3 2PCJ6 EHR00016 EHR00030 2PCJ4 2PCJ7 10 in 250 W 1 With Thermostat and Cord Without Thermostat or Cord Mfr. Model Mfr. Model Heater Item Item Mfr. Item Silicone rubber vulcanized to 
   Heater
   Mfr.

   Watts
   Voltage
   Model

   Tubular
   Enclosure
   Heaters, 1-Ph

   100
   V120V AC
   EHT00030
   4

   150
   V120V AC
   EHT00032
   4

   250
   V120V AC
   EHT00034
   4

   350
   V120V AC
   EHT00034
   4

   500
   V120V AC
   EHT00036
   4

   500
   V120V AC
   EHT00038
   4

   Mir.
   Item

   Control Range (\*F)
   Model
   No.

   Remote Thermostats, 120 to 240V AC, 15°F Diff.
   Open At 50, Close At 32
   EHA00009
   6THT9

   Open At 60, Close At 40
   EHA00001
   6THU9
   0

   Open At 140, Close At 110
   EHA00002
   6THU1
   No. No. Phase 4TCX7 4TCX9 4TCY2 4TCX8 4TCY1 4TCY3 EHT00029 1/2"H with mounting flange EHT00031 EHT00033 EHT00035 EHT00037 4TCY5 4TCY7 4TCY4 Open At 180, Close At 150 EHA00003 6THU2 4TCY6

EHT00039

4TCY9

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