

## Hi-Density Cartridge Heaters with 321 Stainless Steel Sheath 5/8" (15.88 mm) Nominal Diameter

HDC00713



5/8" Diameter Hi-Density Cartridge Heaters

HDC00713

★★★★★

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- High Watt Densities of 100 W/in<sup>2</sup> to 300 W/in<sup>2</sup> Provide Maximum Processing Temperature Capability.
- Standard 321 Stainless Steel Sheath Material Provides High Temperature Strength, Good Thermal Conductivity and Resistance to Corrosion and Scaling.
- Swaged Construction Provides Excellent Heat Transfer and High Dielectric Strength.
- U.L. Component Recognized.
- CSA Certified.
- Applications up to 565°C (1050°F) Working Temperature.
- Maximum Sheath Temperature 650°C (1200°F)\*.
- Standard Sheath Lengths 25.4 cm (1") to 1829 mm (72")
- 120V and 240V Models - 480V Capable
- Over 40 Termination Styles and Special Features.

\*Incoloy® 800 Sheath Material Available on Special Order for Applications up to 760°C (1400°F).

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### Description

Hi-Density Multi-Purpose cartridge heaters represent OMEGA's commitment to value-added customer service. OMEGA maintains over 65,000 semi-finished hi-density cartridge heater substrates in stock, offering a combination of over 1000 sizes in industry standard diameters and lengths ranging from 25.4 mm (1") here OMEGA will custom manufacture to your specifications. Consult us with your requirements. to 914.4 mm (36") in a complete spectrum of wattages and operating voltages.

Multi-purpose cartridge heaters are the solution for a multitude of original equipment manufacturers (OEMs) and maintenance (MRO) applications. Highly engineered specific purpose OMEGA cartridge heaters have been at the forefront of addressing the challenges of Original Equipment Manufacturers (OEMs) in a broad segment of diversified industries. As a company OMEGA is uniquely qualified and committto assist our customers in developing highly engineered specific use cartridge heaters for dependable and reliable performance.

Let OMEGA provide the optimal solution to your thermal loop systems and cartridge heater design challenges.

## Hi-Density Cartridge Heaters 5/8" Dia., Actual 0.621" ±0.002" ( 15.773 mm)

Sheath Length		Model Number		Watts	Watt Density		Sheath Length		Model Number		Watts	Watt Density	
inch	mm	120V	240V		/in <sup>2</sup>	/cm <sup>2</sup>	inch	mm	120V	240V		/in <sup>2</sup>	/cm <sup>2</sup>
1 <sup>1</sup> / <sub>4</sub>	31.8	HDC00713	—	50	34	5	4	102	HDC00771	HDC00772	500	73	11
1 <sup>1</sup> / <sub>4</sub>	31.8	HDC00714	HDC00715	200	136	21	4	102	—	HDC00773	550	80	12
1 <sup>1</sup> / <sub>4</sub>	31.8	HDC00716	HDC00717	250	170	26	4	102	—	HDC00774	600	87	14
1 <sup>1</sup> / <sub>2</sub>	38.1	HDC00719	HDC00720	250	127	20	4	102	HDC00775	HDC00776	750	109	17
2	50.8	HDC00721	—	100	34	5	4	102	—	HDC00777	1000	146	23
2	50.8	HDC00722	—	125	42	7	4 <sup>1</sup> / <sub>2</sub>	114	—	HDC00780	500	64	10
2	50.8	HDC00723	HDC00724	200	68	11	4 <sup>1</sup> / <sub>2</sub>	114	HDC00783	HDC00784	750	95	15
2	50.8	HDC00725	HDC00726	250	85	13	4 <sup>1</sup> / <sub>2</sub>	114	—	HDC00785	1000	127	20
2	50.8	—	HDC00727	300	102	16	4 <sup>3</sup> / <sub>4</sub>	121	—	HDC00787	750	90	14
2	50.8	—	HDC00728	400	136	21	5	127	HDC00788	HDC00789	250	28	4
2	50.8	—	HDC00729	500	170	26	5	127	—	HDC00790	500	57	9
2	50.8	—	HDC00730	750	255	40	5	127	HDC00791	HDC00792	750	85	13
2 <sup>1</sup> / <sub>4</sub>	57.2	HDC00731	—	100	29	5	5	127	—	HDC00793	875	99	15
2 <sup>1</sup> / <sub>4</sub>	57.2	HDC00732	—	125	36	6	5	127	HDC00794	HDC00795	1000	113	18
2 <sup>1</sup> / <sub>4</sub>	57.2	HDC00733	HDC00734	250	73	11	5 <sup>3</sup> / <sub>8</sub>	137	HDC00796	HDC00797	800	84	13
2 <sup>1</sup> / <sub>4</sub>	57.2	HDC00735	HDC00736	350	102	16	5 <sup>1</sup> / <sub>2</sub>	140	—	HDC00800	800	81	13
2 <sup>3</sup> / <sub>8</sub>	60.3	HDC00739	HDC00740	280	76	12	5 <sup>3</sup> / <sub>4</sub>	146	—	HDC00801	500	49	8
2 <sup>1</sup> / <sub>2</sub>	63.5	HDC00742	—	180	46	7	5 <sup>3</sup> / <sub>4</sub>	146	—	HDC00802	1500	146	23
2 <sup>1</sup> / <sub>2</sub>	63.5	HDC00743	HDC00744	275	70	11	6	152	HDC00804	HDC00805	300	28	4
2 <sup>1</sup> / <sub>2</sub>	63.5	HDC00745	HDC00746	400	102	16	6	152	HDC00806	HDC00807	500	46	7
2 <sup>1</sup> / <sub>2</sub>	63.5	—	HDC00747	720	183	28	6	152	—	HDC00808	750	69	11
3	76.2	HDC00748	—	150	31	5	6	152	HDC00809	HDC00810	1000	93	14
3	76.2	HDC00749	—	180	37	6	6	152	—	HDC00811	1200	111	17
3	76.2	HDC00750	HDC00751	250	51	8	6	152	HDC00812	HDC00813	1500	139	22
3	76.2	HDC00752	HDC00753	350	71	11	6 <sup>1</sup> / <sub>2</sub>	165	HDC00814	HDC00815	350	30	5
3	76.2	HDC00754	—	400	81	13	6 <sup>1</sup> / <sub>2</sub>	165	HDC00816	HDC00817	500	42	7
3	76.2	HDC00755	HDC00756	500	102	16	6 <sup>1</sup> / <sub>2</sub>	165	—	HDC00818	900	76	12
3	76.2	—	HDC00757	600	122	19	6 <sup>1</sup> / <sub>2</sub>	165	—	HDC00819	1400	119	18
3	76.2	—	HDC00758	720	147	23	6 <sup>3</sup> / <sub>4</sub>	172	—	HDC00820	500	41	6
3	76.2	—	HDC00759	750	153	24	6 <sup>3</sup> / <sub>4</sub>	172	—	HDC00821	1000	81	13
3 <sup>1</sup> / <sub>4</sub>	82.6	HDC00760	—	200	37	6	7	178	HDC00822	HDC00823	500	39	6
3 <sup>1</sup> / <sub>4</sub>	82.6	—	HDC00761	800	148	23	7	178	—	HDC00824	750	59	9
3 <sup>1</sup> / <sub>2</sub>	88.9	—	HDC00762	525	89	14	7	178	HDC00825	HDC00826	1000	78	12
3 <sup>3</sup> / <sub>4</sub>	95.3	HDC00763	HDC00764	525	82	13	7	178	—	HDC00827	1500	118	18
4	102	HDC00766	HDC00767	250	36	6	7 <sup>1</sup> / <sub>2</sub>	191	HDC00828	—	325	24	4
4	102	—	HDC00768	300	44	7	7 <sup>1</sup> / <sub>2</sub>	191	—	HDC00829	1300	95	15
4	102	HDC00769	—	350	51	8	7 <sup>3</sup> / <sub>4</sub>	197	—	HDC00830	400	28	4
4	102	—	HDC00770	400	58	9	Ordering Example: HDC00713, 50 W, 120 Vac, 5/8" dia						

Model Numbers listed are cartridge heaters terminated with Type N termination 254 mm (10") long leads. For other terminations and options see Modifications & Options for HDC.  
Contact OMEGA for part numbers and pricing.

## Hi-Density Cartridge Heaters 5/8" Dia., Actual 0.621" ±0.002" ( 15.773 mm)

Sheath Length		Model Number		Watts	Watt Density		Sheath Length		Model Number		Watts	Watt Density		
inch	mm	120V	240V		/in <sup>2</sup>	/cm <sup>2</sup>	inch	mm	120V	240V		/in <sup>2</sup>	/cm <sup>2</sup>	
7 <sup>3</sup> / <sub>4</sub>	197	—	HDC00831	1000	70	11	12	305	—	HDC00875	2000	89	14	
8	203	—	HDC00832	400	27	4	13	330	—	HDC00876	1000	41	6	
8	203	HDC00833	HDC00834	500	34	5	13	330	—	HDC00877	1500	61	10	
8	203	—	HDC00835	750	51	8	14	356	HDC00878	—	925	35	5	
8	203	—	HDC00836	850	58	9	14	356	—	HDC00879	1000	38	6	
8	203	HDC00837	HDC00838	1000	68	11	14	356	—	HDC00880	1500	57	9	
8	203	HDC00839	HDC00840	1200	81	13	14	356	—	HDC00881	3700	140	22	
8	203	HDC00841	HDC00842	1500	102	16	15	381	—	HDC00882	750	26	4	
8	203	—	HDC00843	2000	136	21	15	381	—	HDC00883	1000	35	5	
8 <sup>3</sup> / <sub>4</sub>	222	HDC00845	—	450	28	4	15	381	—	HDC00884	2400	84	13	
8 <sup>3</sup> / <sub>4</sub>	222	—	HDC00846	1800	111	17	15	381	—	HDC00885	4000	140	22	
9	229	—	HDC00847	500	30	5	16	406	—	HDC00886	1000	33	5	
9	229	—	HDC00848	750	45	7	16	406	—	HDC00887	2500	82	13	
9	229	—	HDC00849	1000	60	9	16	406	—	HDC00888	4500	148	23	
9	229	—	HDC00850	1500	90	14	17	432	—	HDC00889	1000	31	5	
9 <sup>1</sup> / <sub>2</sub>	241	—	HDC00851	975	55	9	18	457	—	HDC00890	900	26	4	
10	254	HDC00852	HDC00853	500	27	4	18	457	—	HDC00891	1000	29	5	
10	254	HDC00855	—	650	35	5	18	457	—	HDC00892	1500	44	7	
10	254	—	HDC00856	750	40	6	18	457	—	HDC00893	3000	87	14	
10	254	—	HDC00857	800	43	7	18	457	—	HDC00894	4700	137	21	
10	254	HDC00858	HDC00859	1000	54	8	19	483	—	HDC00895	1000	28	4	
10	254	HDC00860	HDC00861	1500	80	13	20	508	—	HDC00896	1000	26	4	
10	254	—	HDC00862	2000	107	17	20	508	—	HDC00897	1500	39	6	
11	279	—	HDC00863	1000	49	8	20	508	—	HDC00898	3500	91	14	
11	279	—	HDC00864	1400	68	11	20	508	—	HDC00899	4700	123	19	
11	279	—	HDC00865	2000	97	15	24	610	—	HDC00900	1000	22	3	
12	305	HDC00866	HDC00867	500	22	3	24	610	—	HDC00901	2000	43	7	
12	305	HDC00868	—	600	27	4	24	610	—	HDC00902	4700	102	16	
12	305	—	HDC00869	775	34	5	25 <sup>1</sup> / <sub>4</sub>	641	—	HDC00903	1500	31	5	
12	305	—	HDC00870	900	40	6	30	762	—	HDC00904	2800	48	8	
12	305	HDC00871	HDC00872	1000	44	7	36	914	—	HDC00905	3000	43	7	
12	305	HDC00873	HDC00874	1500	66	10	Ordering Example: HDC00713, 50 W, 120 Vac, 5/8" dia							

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