

Hi-Density Cartridge Heaters with 321 Stainless Steel Sheath 3/8" (9.525 mm) Nominal Diameter

HDC00125



3/8" Diameter Hi-Density Cartridge Heaters

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- Watt Densities of 20 W/in² to 340 W/in² Provide Maximum Process Temperature Flexibility.
- 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 610 mm (24")
- 120V and 240V Models
- 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") 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 standard and special 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 committed to 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. OMEGA will custom manufacture to your specifications. Consult us with your requirements.

Hi-Density Cartridge Heaters 3/8" Diameter, Actual 0.371" ±0.002" (9.423 mm)

Sheath Length		Model Number		Watts	Watt Density		Sheath Length		Model Number		Watts	Watt Density		
inch	mm	120V	240V		/cm ²	/in ²	inch	mm	120V	240V		/cm ²	/in ²	
1	25.4	HDC00125	—	50	13	85	2	50.8	HDC00186	HDC00187	500	44	283	
1	25.4	HDC00127	—	100	26	170	2¼	57.2	HDC00189	—	75	6	36	
1	25.4	HDC00128	HDC00129	150	40	255	2¼	57.2	HDC00190	—	100	8	49	
1	25.4	—	HDC00130	200	53	340	2¼	57.2	HDC00191	HDC00192	125	9	61	
1¼	31.8	HDC00133	—	100	18	113	2¼	57.2	—	HDC00193	150	11	73	
1¼	31.8	HDC00135	HDC00136	150	26	170	2¼	57.2	HDC00194	—	175	13	85	
1¼	31.8	HDC00137	HDC00138	200	35	226	2¼	57.2	—	HDC00196	200	15	97	
1⅝	33.3	HDC00139	HDC00140	100	16	104	2¼	57.2	HDC00197	HDC00200	250	19	125	
1⅝	33.3	HDC00141	—	150	24	157	2¼	57.2	HDC00199	—	300	23	146	
1¾	34.9	HDC00142	HDC00143	150	23	146	2¼	57.2	HDC00201	HDC00202	350	26	170	
1⅞	36.5	HDC00144	—	100	14	91	2¼	57.2	—	HDC00204	400	30	194	
1½	38.1	HDC00146	—	30	4	25	2¼	57.2	—	HDC00205	500	38	243	
1½	38.1	HDC00147	HDC00148	50	7	42	2⅜	60.3	HDC00206	—	75	5	34	
1½	38.1	HDC00149	—	75	10	64	2⅜	60.3	—	HDC00207	165	12	75	
1½	38.1	HDC00150	HDC00151	100	13	85	2⅜	60.3	HDC00213	HDC00210	300	21	136	
1½	38.1	—	HDC00152	125	17	106	2½	63.5	HDC00215	HDC00214	100	7	42	
1½	38.1	HDC00153	HDC00154	150	20	127	2½	63.5	—	—	125	8	53	
1½	38.1	HDC00155	HDC00156	200	26	170	2½	63.5	—	HDC00216	150	10	64	
1½	38.1	HDC00157	HDC00158	250	33	212	2½	63.5	HDC00217	HDC00218	200	13	85	
1¾	44.5	HDC00160	HDC00161	150	16	102	2½	63.5	HDC00219	HDC00220	250	17	106	
1¾	44.5	—	HDC00163	200	21	136	2½	63.5	HDC00221	HDC00222	300	20	127	
1¾	44.5	HDC00164	HDC00165	250	26	170	2½	63.5	—	HDC00223	350	23	149	
1⅞	46	—	HDC00166	150	15	97	2½	63.5	HDC00224	—	400	27	174	
1⅞	46	HDC00167	—	200	20	129	2½	63.5	HDC00227	HDC00228	500	33	212	
1⅞	47.6	HDC00169	—	250	24	154	2¾	69.9	—	HDC00231	400	23	151	
2	50.8	HDC00170	—	50	4	28	2⅞	71.4	—	HDC00235	300	17	110	
2	50.8	HDC00171	—	75	7	42	3	76.2	HDC00236	HDC00237	100	5	34	
2	50.8	HDC00172	HDC00173	100	9	57	3	76.2	HDC00238	—	125	7	42	
2	50.8	HDC00174	—	125	11	71	3	76.2	HDC00239	—	150	8	51	
2	50.8	HDC00175	HDC00176	150	13	85	3	76.2	HDC00240	HDC00241	200	11	68	
2	50.8	HDC00177	HDC00178	200	18	113	3	76.2	HDC00242	HDC00243	250	13	85	
2	50.8	HDC00179	HDC00180	250	22	141	3	76.2	HDC00244	HDC00245	300	16	102	
2	50.8	HDC00181	HDC00182	300	26	170	3	76.2	HDC00247	—	375	20	127	
2	50.8	—	HDC00183	350	31	198	3	76.2	HDC00249	HDC00250	400	21	136	
2	50.8	HDC00184	HDC00185	400	35	226	Ordering Example: HDC00353, 600 W, 120 Vac, ⅜" dia							

Model Numbers listed are cartridge heaters terminated with Type N termination 254 mm (10") long leads.
 Other Watt Densities and heater lengths up to 48" (1219 mm) may be available on special order.
 For other terminations and options see Modifications & Options for HDC.
 Contact OMEGA for part numbers and pricing.

Hi-Density Cartridge Heaters 3/8" Diameter, Actual 0.371" ±0.002" (9.423 mm)

Sheath Length		Model Number		Watts	Watt Density		Sheath Length		Model Number		Watts	Watt Density	
inch	mm	120V	240V		/cm ²	/in ²	inch	mm	120V	240V		/cm ²	/in ²
3	76.2	HDC00251	HDC00252	500	26	170	4 ³ / ₄	121	—	HDC00307	300	9	60
3	76.2	—	HDC00253	600	32	204	4 ¹³ / ₁₆	122	—	HDC00308	300	9	59
3	76.2	—	HDC00254	750	40	255	4 ¹³ / ₁₆	122	—	HDC00309	500	15	98
3 ⁵ / ₁₆	84.1	HDC00255	—	500	23	151	5	127	HDC00312	HDC00313	150	4	28
3 ¹ / ₂	88.9	HDC00256	—	125	6	35	5	127	HDC00314	HDC00315	200	6	38
3 ¹ / ₂	88.9	—	HDC00257	200	9	57	5	127	HDC00316	—	250	7	47
3 ¹ / ₂	88.9	—	HDC00258	225	10	64	5	127	HDC00317	HDC00318	300	9	57
3 ¹ / ₂	88.9	HDC00259	HDC00260	250	11	71	5	127	—	HDC00319	350	10	66
2 ¹ / ₄	57.2	HDC00191	HDC00192	125	9	61	5	127	HDC00320	HDC00321	400	12	75
3 ¹ / ₂	88.9	HDC00261	HDC00262	300	13	85	5	127	HDC00323	HDC00324	500	15	94
3 ¹ / ₂	88.9	HDC00263	HDC00264	350	15	99	5	127	—	HDC00327	600	18	113
3 ¹ / ₂	88.9	—	HDC00265	400	18	113	5	127	—	HDC00328	700	21	132
3 ¹ / ₂	88.9	HDC00266	HDC00267	500	22	141	5	127	—	HDC00329	750	22	141
3 ¹³ / ₁₆	96.8	HDC00269	—	150	6	38	5	127	—	HDC00330	800	23	151
3 ¹³ / ₁₆	96.8	—	HDC00270	500	20	128	5	127	—	HDC00331	1000	29	189
4	101.6	HDC00272	—	100	4	24	5 ¹ / ₄	133	—	HDC00332	200	6	36
4	101.6	HDC00273	HDC00274	125	5	30	5 ¹ / ₂	140	HDC00334	HDC00335	250	7	42
4	101.6	HDC00275	—	150	6	36	5 ¹ / ₂	140	—	HDC00338	550	15	93
4	101.6	HDC00276	—	175	7	42	5 ¹ / ₂	140	—	HDC00339	600	16	102
4	101.6	HDC00277	HDC00278	200	8	49	5 ¹ / ₂	140	—	HDC00340	1000	26	170
4	101.6	HDC00279	HDC00280	250	9	61	5 ³ / ₄	146	—	HDC00341	400	10	65
4	101.6	HDC00281	HDC00282	300	11	73	5 ³ / ₄	146	HDC00342	HDC00343	600	15	97
4	101.6	HDC00283	HDC00284	350	13	85	6)	152	HDC00344	—	200	5	31
4	101.6	HDC00285	HDC00286	400	15	97	6	152	HDC00345	HDC00346	250	6	39
4	101.6	—	HDC00288	450	17	109	6	152	HDC00347	HDC00348	300	7	46
4	101.6	HDC00289	HDC00290	500	19	121	6	152	HDC00349	HDC00350	400	10	62
4	101.6	—	HDC00292	600	23	146	6	152	HDC00351	HDC00352	500	12	77
4	101.6	—	HDC00293	700	26	170	6	152	HDC00353	HDC00354	600	14	93
4	101.6	—	HDC00294	750	28	182	6	152	—	HDC00355	675	16	104
4 ¹ / ₄	108	—	HDC00295	300	11	68	6	152	HDC00356	HDC00357	750	18	116
4 ¹ / ₄	108	—	HDC00296	750	26	170	6	152	—	HDC00358	800	19	123
4 ¹ / ₂	114.3	—	HDC00297	250	8	53	6	152	—	HDC00359	900	22	139
4 ¹ / ₂	114.3	HDC00298	HDC00299	300	10	64	6	152	—	HDC00360	1000	24	154
4 ¹ / ₂	114.3	HDC00302	HDC00303	450	15	95	6 ¹ / ₂	165	—	HDC00361	600	13	85
4 ¹ / ₂	114.3	HDC00304	HDC00305	500	17	106	Ordering Example: HDC00353, 600 W, 120 Vac, 3/8" dia						

Model Numbers listed are cartridge heaters terminated with Type N termination 254 mm (10") long leads.

Other Watt Densities and heater lengths up to 48" (1219 mm) may be available on special order.

For other terminations and options see Modifications & Options for HDC.

Contact OMEGA for part numbers and pricing.

Hi-Density Cartridge Heaters 3/8" Diameter, Actual 0.371" ±0.002" (9.423 mm)

Sheath Length		Model Number		Watts	Watt Density		Sheath Length		Model Number		Watts	Watt Density	
inch	mm	120V	240V		/cm ²	/in ²	inch	mm	120V	240V		/cm ²	/in ²
6½	165.1	—	HDC00362	1000	22	141	9	229	—	HDC00400	1000	16	100
7	177.8	HDC00365	HDC00366	250	5	33	9½	241	HDC00401	—	200	3	19
7	177.8	—	HDC00367	350	7	46	9½	241	—	HDC00402	600	9	57
7	177.8	HDC00368	—	400	8	52	9½	241	—	HDC00403	1000	15	94
7	177.8	—	HDC00369	500	10	65	10	254	HDC00405	—	400	5	36
7	177.8	HDC00370	HDC00371	600	12	78	10	254	—	HDC00407	500	7	45
7	177.8	—	HDC00373	750	15	98	10	254	HDC00408	HDC00409	600	8	54
7	177.8	—	HDC00374	775	16	101	10	254	—	HDC00410	700	10	63
7	177.8	—	HDC00375	1000	20	131	10	254	—	HDC00411	750	10	67
7½	190.5	—	HDC00377	600	11	73	10	254	—	HDC00413	1000	14	89
7½	190.5	—	HDC00378	725	14	88	10	254	—	HDC00415	1500	21	134
7½	190.5	—	HDC00379	850	16	103	10 ¹³ / ₁₆	275	—	HDC00416	375	5	31
7½	190.5	—	HDC00380	1000	19	121	12	305	HDC00417	—	400	5	30
7 ¹³ / ₁₆	198.4	—	HDC00381	750	14	87	12	305	—	HDC00418	500	6	37
8	203.2	HDC07944	—	250	5	30	12	305	HDC00419	HDC00420	600	7	44
8	203.2	HDC00382	HDC00383	300	5	34	12	305	—	HDC14222	750	9	57
8	203.2	HDC00384	—	400	7	45	12	305	—	HDC00421	1000	11	74
8	203.2	HDC00385	—	450	8	51	12	305	—	HDC06225	1500	18	113
8	203.2	HDC00386	HDC00387	500	9	57	12 ¹³ / ₁₆	325	—	HDC00422	1000	11	69
8	203.2	HDC00388	HDC00389	600	11	68	13	330	—	HDC07200	1000	11	70
8	203.2	—	HDC00390	700	12	79	14	356	—	HDC22941	600	6	39
8	203.2	—	HDC00391	750	13	85	14	356	—	HDC00423	750	7	47
8	203.2	—	HDC00392	900	16	102	16	406	—	HDC22942	600	5	34
8	203.2	—	HDC00393	1000	18	113	16	406	—	HDC00424	1200	10	66
8⅝	219.1	—	HDC00395	500	8	52	18	457	—	HDC22943	1000	9	58
9	228.6	HDC00396	HDC00397	200	3	20	20	508	—	HDC09305	1000	8	53
9	228.6	—	HDC00398	500	8	50	24	610	—	HDC10234	1000	6	38
9	228.6	—	HDC00399	885	14	88	Ordering Example: HDC00353, 600 W, 120 Vac, 3/8" dia						

Model Numbers listed are cartridge heaters terminated with Type N termination 254 mm (10") long leads.

Other Watt Densities and heater lengths up to 48" (1219 mm) may be available on special order.

For other terminations and options see Modifications & Options for HDC.

Contact OMEGA for part numbers and pricing.

Place Order[†]

(Specify Model Number)

Show Only Stocked Items

Part Number	Description	Qty
HDC00125 <i>9 In Stock</i>	120 volt, 50 watts, 3/8" diameter hi-density cartridge heater	<input type="text" value="0"/>
HDC00130 <i>8 In Stock</i>	240 volt, 200 watts, 3/8" diameter hi-density cartridge heater	<input type="text" value="0"/>
HDC00153 <i>Available In 3 Weeks</i>	120 volt, 150 watts, 3/8" diameter hi-density cartridge heater	<input type="text" value="0"/>

HDC00201	<i>Available In 4 Weeks</i>	<i>120 volt, 350 watts, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00205 Consult Sales		<i>240 volt, 500 watts, 3/8' diameter hi-density cartridge heater</i>	
HDC00266	<i>Available In 4 Weeks</i>	<i>120 volt, 500 watts, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00270 Consult Sales		<i>240 volt, 500 watts, 3/8' diameter hi-density cartridge heater</i>	
HDC00127	<i>Available In 4 Weeks</i>	<i>120 volt, 100 watts, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00128	<i>8 In Stock</i>	<i>120 volt, 150 watts, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00133	<i>7 In Stock</i>	<i>120 volt, 100 watts, 1 1/4' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00135	<i>Available In 4 Weeks</i>	<i>120 volt, 150 watts, 1 1/4' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00137	<i>7 In Stock</i>	<i>120 volt, 200 watts, 1 1/4' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00147	<i>6 In Stock</i>	<i>120 volt, 50 watts, 1 1/2' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00153	<i>Available In 3 Weeks</i>	<i>120 volt, 150 watts, 1 1/2' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00155	<i>8 In Stock</i>	<i>120 volt, 200 watts, 1 1/2' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00175	<i>Available In 4 Weeks</i>	<i>120 volt, 150 watts, 2' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00179	<i>1 In Stock</i>	<i>120 volt, 250 watts, 2' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00186	<i>Available In 4 Weeks</i>	<i>120 volt, 500 watts, 2' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00187	<i>Available In 4 Weeks</i>	<i>2400 volt, 500 watts, 2' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00281	<i>Available In 4 Weeks</i>	<i>120 volt, 300 watts, 4' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00285	<i>Available In 4 Weeks</i>	<i>120 volt, 400 watts, 4' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>
HDC00289	<i>Available In 4 Weeks</i>	<i>120 volt, 500 watts, 4' long, 3/8' diameter hi-density cartridge heater</i>	<input type="text" value="0"/>

HDC00314	Available In 4 Weeks	120 volt, 200 watts, 5' long, 3/8' diameter hi-density cartridge heater	<input type="text" value="0"/>
HDC00349	Available In 4 Weeks	120 volt, 400 watts, 6' long, 3/8' diameter hi-density cartridge heater	<input type="text" value="0"/>
HDC00353	Available In 4 Weeks	120 volt, 600 watts, 6' long, 3/8' diameter hi-density cartridge heater	<input type="text" value="0"/>
HDC00365	Available In 4 Weeks	120 volt, 250 watts, 7' long, 3/8' diameter hi-density cartridge heater	<input type="text" value="0"/>
HDC00382	Available In 4 Weeks	120 volt, 300 watts, 8' long, 3/8' diameter hi-density cartridge heater	<input type="text" value="0"/>
HDC00405	Available In 4 Weeks	120 volt, 400 watts, 10' long, 3/8' diameter hi-density cartridge heater	<input type="text" value="0"/>

Order By Part Number

Part Number	Qty	Part Number	Qty
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

† All amounts shown in USD

Note: Ordering Information Order by Model number for stock cartridge heaters with Type N termination. Call OMEGA for model numbers for heaters with other terminator program terminations and options. Custom Engineered/Manufactured Cartridge heaters can be application specific; therefore for sizes, electrical ratings, terminations and any other design features not listed here OMEGA will custom manufacture to your specifications. Consult us with your requirements.

Ordering Example: (1) **HDC00153** 3/8" High Density Cartridge Heater,120V,150W

Reviews

★★★★★

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