

INCOLOY SHEATH HIGH WATT DENSITY CARTRIDGE HEATERS 1 cm (1/2") Diameter

- ✓ Premium Quality
- ✓ 120 and 240 V
- ✓ Lengths from 3 to 46 cm (1 1/4 to 18")
- ✓ Lengths from 1 1/4 to 36"

- ✓ Rugged, Shock and Vibration Resistant
- ✓ UL Component Recognized
- ✓ CSA Certified

OMEGALUX® CIR series high watt density cartridge heaters are especially well suited for use in applications involving molds, dies, platens, hot plates, and sealing operations.

1/2" (1 cm) Dia. Type CIR Series

(Actual Dia. & Tolerance: 0.498"+ 0.000"-0.005")

MOST POPULAR MODELS HIGHLIGHTED!

To Order																	
Shth. Lgth. (cm)	Watt	W/in ²	Model No.	Price	Wt. lbs. (kg)	Shth. Lgth. (cm)	Watt	W/in ²	Model No.	Price	Wt. lbs. (kg)	Shth. Lgth. (cm)	Watt	W/in ²	Model No.	Price	Wt. lbs. (kg)
1¼ (3)	50	44	CIR-3014/120	\$35	.09(.4)	3 (8)	500	128	CIR-3030/*	\$42	.17(.08)	6 (15)	850	99	CIR-3060/*	\$55	.34(.15)
1¼ (3)	100	85	CIR-3012/120	34	.09(.4)	3 (8)	600	154	CIR-3034/*	42	.17(.08)	6 (15)	1000	117	CIR-3064/*	55	.34(.15)
1¼ (3)	125	107	CIR-3019/*	34	.09(.4)	3 (8)	750	192	CIR-30301/*	42	.17(.08)	6½ (17)	1000	108	CIR-30601/240	58	.37(.17)
1¼ (3)	150	128	CIR-3013/*	34	.09(.4)	3½ (9)	250	53	CIR-3035/*	44	.20(.09)	7 (18)	250	25	CIR-3070/120	61	.40(.18)
1¼ (3)	200	170	CIR-30121/240	34	.09(.4)	3½ (9)	500	105	CIR-3037/*	44	.20(.09)	7 (18)	500	50	CIR-3071/*	61	.40(.18)
1¼ (3)	250	210	CIR-30122/240	34	.09(.4)	3½ (9)	750	160	CIR-3038/240	44	.20(.09)	7 (18)	600	60	CIR-3072/*	61	.40(.18)
1½ (4)	50	32	CIR-30151/120	35	.10(.05)	3¾ (10)	500	96	CIR-3039/*	46	.21(.11)	7 (18)	1000	98	CIR-3075/240	61	.40(.18)
1½ (4)	100	60	CIR-3016/120	35	.10(.05)	4 (10)	150	28	CIR-3045/*	46	.22(.11)	7½ (19)	500	46	CIR-3076/240	64	.43(.20)
1½ (4)	125	80	CIR-3017/*	35	.10(.05)	4 (10)	180	33	CIR-3040/*	46	.22(.11)	7½ (19)	1000	91	CIR-3077/240	64	.43(.20)
1½ (4)	150	96	CIR-3015/*	35	.10(.05)	4 (10)	250	44	CIR-30402/*	46	.22(.11)	8 (20)	250	21	CIR-3083/240	67	.45(.20)
1½ (4)	200	128	CIR-3018/*	35	.10(.05)	4 (10)	300	55	CIR-3042/*	46	.22(.11)	8 (20)	300	26	CIR-3085/*	67	.45(.20)
2 (5)	75	32	CIR-30204/120	37	.12(.05)	4 (10)	350	65	CIR-3046/*	46	.22(.11)	8 (20)	400	34	CIR-3081/240	67	.45(.20)
2 (5)	100	43	CIR-30201/*	37	.12(.05)	4 (10)	400	73	CIR-3043/*	46	.22(.11)	8 (20)	500	42	CIR-3084/*	67	.45(.20)
2 (5)	200	85	CIR-3021/*	37	.12(.05)	4 (10)	500	92	CIR-3041/*	46	.22(.11)	8 (20)	750	62	CIR-30801/240	67	.45(.20)
2 (5)	250	107	CIR-30202/*	37	.12(.05)	4 (10)	750	137	CIR-3044/*	46	.22(.11)	8 (20)	1000	85	CIR-3080/*	67	.45(.20)
2 (5)	300	128	CIR-30203/*	37	.12(.05)	4 (10)	1000	183	CIR-30401/240	46	.22(.11)	8 (20)	1500	128	CIR-3082/240	67	.45(.20)
2 (5)	400	171	CIR-3020/*	37	.12(.05)	4⅝ (11)	550	91	CIR-3048/*	48	.22(.11)	8 (20)	2000	170	CIR-3086/240	67	.45(.20)
2¼ (6)	75	28	CIR-30221/120	39	.13(.06)	4½ (11)	500	79	CIR-3047/*	46	.25(.11)	8½ (22)	300	24	CIR-3087/240	70	.45(.20)
2¼ (6)	125	45	CIR-30222/120	39	.13(.06)	4½ (11)	750	119	CIR-3049/*	46	.25(.11)	8½ (22)	500	40	CIR-3088/240	70	.45(.20)
2¼ (6)	250	85	CIR-3022/*	39	.13(.06)	4⅜ (12)	300	146	CIR-30403/240	48	.26(.12)	8½ (22)	1000	80	CIR-3089/240	70	.45(.20)
2¼ (6)	400	145	CIR-30223/*	39	.13(.06)	4⅜ (12)	1000	146	CIR-30404/240	48	.26(.12)	9 (23)	500	37	CIR-3090/240	73	.50(.23)
2¼ (6)	500	170	CIR-30224/*	39	.13(.06)	5 (13)	200	28	CIR-3053/*	49	.27(.12)	9 (23)	1000	74	CIR-3091/240	73	.50(.23)
2½ (6)	75	26	CIR-3025/*	39	.13(.06)	5 (13)	350	50	CIR-3051/*	49	.27(.12)	9½ (24)	500	36	CIR-3092/240	75	.53(.24)
2½ (6)	100	34	CIR-3026/*	39	.13(.06)	5 (13)	400	56	CIR-3054/*	49	.27(.12)	9½ (24)	1000	72	CIR-3093/240	75	.53(.24)
2½ (6)	120	41	CIR-3027/*	39	.13(.06)	5 (13)	500	71	CIR-30501/*	49	.27(.12)	10 (25)	475	32	CIR-3100/240	78	.56(.25)
2½ (6)	250	85	CIR-3023/*	39	.13(.06)	5 (13)	750	107	CIR-3050/*	49	.27(.12)	10 (25)	500	34	CIR-3103/*	78	.56(.25)
2½ (6)	450	154	CIR-3024/*	39	.13(.06)	5 (13)	1000	142	CIR-30502/240	49	.27(.12)	10 (25)	1000	68	CIR-3101/*	78	.56(.25)
2½ (6)	500	170	CIR-30231/*	40	.13(.06)	5½ (13)	250	34	CIR-3052/*	51	.29(.13)	10 (25)	1500	101	CIR-3102/240	78	.56(.25)
2½ (6)	100	32	CIR-30255/*	40	.14(.06)	5½ (14)	500	64	CIR-3055/*	52	.31(.14)	10 (25)	2000	134	CIR-3105/240	78	.56(.25)
2½ (6)	150	48	CIR-30251/*	40	.14(.06)	5½ (14)	650	83	CIR-3056/240	52	.31(.14)	12 (30)	550	31	CIR-3121/*	90	.67(.30)
2½ (6)	250	80	CIR-30252/*	40	.14(.06)	5½ (14)	750	97	CIR-3057/*	52	.31(.14)	12 (30)	1000	56	CIR-3122/*	90	.67(.30)
2½ (6)	400	128	CIR-30253/*	40	.14(.06)	5⅝ (15)	300	36	CIR-30582/240	54	.32(.15)	12 (30)	1500	84	CIR-3120/240	90	.67(.30)
2½ (6)	500	160	CIR-30254/*	40	.14(.06)	5⅝ (15)	700	85	CIR-3058/*	54	.32(.15)	12 (30)	2000	112	CIR-3125/240	102	.67(.30)
2½ (6)	300	96	CIR-3028/*	40	.14(.06)	6 (15)	200	22	CIR-3065/240	55	.34(.15)	14 (36)	1000	48	CIR-3141/240	102	.78(.35)
2⅝ (7)	350	106	CIR-3029/240	40	.14(.06)	6 (15)	250	27	CIR-3067/*	55	.34(.15)	14 (36)	1600	76	CIR-3140/240	102	.78(.35)
2⅝ (7)	300	92	CIR-30291/240	40	.14(.06)	6 (15)	300	35	CIR-3061/*	55	.34(.15)	14 (36)	2300	110	CIR-3142/240	102	.78(.35)
2¾ (8)	400	113	CIR-30271/*	40	.14(.06)	6 (15)	350	41	CIR-3068/240	55	.34(.15)	15 (38)	1500	66	CIR-3150/240	108	.84(.38)
3 (8)	125	32	CIR-30302/*	42	.17(.08)	6 (15)	400	45	CIR-3066/240	55	.34(.15)	16(41)	1000	41	CIR-3160/240	114	.84(.38)
3 (8)	250	64	CIR-3031/*	42	.17(.08)	6 (15)	500	58	CIR-3062/*	54	.34(.15)	18(46)	1500	55	CIR-3182/240	102	1.0(.45)
3 (8)	400	103	CIR-3033/*	42	.17(.08)	6 (15)	750	87	CIR-3063/*	54	.34(.15)	18(46)	1700	62	CIR-3180/240	126	1.0(.45)

* Designated voltage; ie: insert "120" for 120 Vac or "240" for 240 Vac. Model numbers that contain "120" or "240" are available only in those voltages. **Note:** 1/2" diameter CIR series cartridge heaters use 16 AWG stranded lead wire.

Ordering Example: CIR-3019/120, 1/2" diameter cartridge heater, 120 Vac, \$34.

CARTRIDGE HEATERS

SPECIFICATIONS

Sheath: Material, Incoloy; black oxide finish for efficient heat transfer; max temp 1500°F; welded, sealed tip.

Leads: Type "F"; stranded, flexible manganese nickel wire insulated with fiberglass, max temp 450°C (842°F), 14" standard length; longer leads available

Heater Wire: Premium grade nickelchromium resistance wire for longer life, and consistent performance

Insulation: Specially formulated refractory insulation, rigidly controlled, densely compacted to improve thermal conductivity and dielectric strength

Internal Connections: Patented connector for high reliability and longer life; vibration and shock resistant construction

Voltage: 120V or 240V must be specified at time of order



CIR-1014/120V, \$42, shown smaller than actual size.

5/8" (1 cm) Nominal Dia. CIR Series
(Actual Dia. & Tolerance: 0.622" + 0.000" -0.055")

MOST POPULAR MODELS HIGHLIGHTED!

To Order

Snth. Lgth. (cm)	Watt	W/in ²	Model No.	Price	Wt. lbs. (kg)	Snth. Lgth. (cm)	Watt	W/in ²	Model No.	Price	Wt. lbs. (kg)	Snth. Lgth. (cm)	Watt	W/in ²	Model No.	Price	Wt. lbs. (kg)
1 1/4 (3)	50	34	CIR-4011/120	\$37	.10(.05)	5 (13)	250	28	CIR-4056/*	\$54	.32(.14)	10% (27)	500	25	CIR-4107/*	\$88	.68(.31)
1 1/4 (3)	200	135	CIR-4012/120	37	.10(.05)	5 (13)	500	57	CIR-4051/*	54	.32(.14)	10% (27)	1700	85	CIR-4105/*	88	.68(.31)
1 1/4 (3)	250	169	CIR-4013/120	37	.10(.05)	5 (13)	750	85	CIR-4050/*	54	.32(.14)	12 (30)	500	224	CIR-4125/*	95	.75(.34)
1 1/2 (4)	100	51	CIR-4016/*	38	.10(.05)	5 (13)	1000	114	CIR-4052/*	54	.33(.15)	12 (30)	900	40	CIR-4129/240	95	.75(.34)
1 1/2 (4)	200	101	CIR-4015/*	38	.10(.05)	5 (13)	1300	148	CIR-4053/240	54	.32(.07)	12 (30)	1000	45	CIR-4120/240	95	.75(.34)
1 1/2 (4)	250	126	CIR-4017/*	38	.10(.05)	5% (14)	285	30	CIR-4055/*	56	.34(.07)	12 (30)	1500	67	CIR-4121/240	95	.75(.34)
2 (5)	100	34	CIR-40201/120	41	.13(.06)	5% (14)	800	84	CIR-4054/*	56	.34(.07)	12 (30)	2000	89	CIR-4122/240	95	.75(.34)
2 (5)	200	68	CIR-4020/*	41	.13(.06)	6 (15)	300	28	CIR-4067/*	60	.34(.07)	12% (33)	550	23	CIR-4128/240	101	.81(.36)
2 (5)	300	103	CIR-4021/*	41	.13(.06)	6 (15)	500	47	CIR-4061/*	60	.38(.17)	14 (36)	3700	139	CIR-4140/240	107	.88(.40)
2 (5)	500	171	CIR-4022/*	42	.13(.06)	6 (15)	750	70	CIR-4063/240	60	.38(.17)	15 (38)	600	21	CIR-4151/240	113	.95(.43)
2 1/4 (6)	100	29	CIR-4023/120	42	.15(.07)	6 (15)	1000	93	CIR-4060/*	60	.38(.17)	15 (38)	750	27	CIR-4153/240	113	.95(.43)
2 1/4 (6)	250	72	CIR-4028/*	42	.15(.07)	6 (15)	1500	140	CIR-4062/*	60	.38(.17)	15 (38)	1500	53	CIR-4152/240	113	.95(.43)
2 1/4 (6)	350	102	CIR-4029/*	42	.15(.07)	6% (17)	350	30	CIR-4066/*	63	.41(.18)	15 (38)	2400	85	CIR-4150/240	113	.95(.43)
2 3/8 (6)	125	34	CIR-4025/*	42	.15(.07)	6% (17)	500	43	CIR-4068/*	63	.41(.18)	15 (38)	4000	140	CIR-4154/240	113	.95(.43)
2 3/8 (6)	150	41	CIR-4026/*	42	.15(.07)	6% (17)	1000	85	CIR-4065/*	63	.41(.18)	16 (38)	2500	82	CIR-4160/240	119	1.02(.45)
2 3/8 (6)	180	49	CIR-4027/*	42	.15(.07)	7 (18)	500	39	CIR-4072/*	66	.45(.20)	16 (38)	4500	148	CIR-4167/240	119	1.02(.45)
2 3/8 (6)	280	77	CIR-4024/*	42	.15(.07)	7 (18)	1000	79	CIR-4070/240	66	.45(.20)	18 (46)	1500	44	CIR-4180/240	131	1.18(.5)
3 (8)	150	31	CIR-4035/120	45	.20(.09)	7 (18)	1500	118	CIR-4071/240	66	.45(.20)	18 (46)	2600	76	CIR-4181/240	131	1.18(.5)
3 (8)	250	51	CIR-4031/*	45	.20(.09)	8 (20)	400	27	CIR-4081/240	72	.50(.22)	18 (46)	3000	88	CIR-4182/240	131	1.18(.5)
3 (8)	400	82	CIR-4032/*	45	.20(.09)	8 (20)	500	34	CIR-4085/*	72	.50(.22)	18 (46)	4700	138	CIR-4184/240	131	1.18(.5)
3 (8)	500	103	CIR-4030/*	45	.20(.09)	8 (20)	750	51	CIR-4082/240	72	.50(.22)	20 (51)	1500	40	CIR-4200/240	154	1.26(.5)
3 (8)	600	123	CIR-4033/240	45	.20(.09)	8 (20)	850	58	CIR-4088/240	72	.50(.22)	20 (51)	3500	92	CIR-4203/240	143	1.26(.6)
3 (8)	750	154	CIR-4034/240	45	.20(.09)	8 (20)	1000	68	CIR-4083/240	72	.50(.22)	20 (51)	4700	123	CIR-4205/240	143	1.26(.6)
3 3/8 (10)	240	38	CIR-4038/*	49	.20(.09)	8 (20)	1200	82	CIR-4080/*	72	.50(.22)	21 (53)	2800	70	CIR-4210/240	148	1.32(.6)
3 3/8 (10)	525	83	CIR-4037/*	49	.20(.09)	8 (20)	1500	103	CIR-4084/240	72	.50(.22)	24 (61)	1200	26	CIR-4241/240	166	1.51(.7)
4 (10)	250	37	CIR-4044/*	50	.26(.11)	8 (20)	2000	137	CIR-40801/240	72	.50(.22)	24 (61)	2000	44	CIR-4242/240	166	1.51(.7)
4 (10)	400	58	CIR-4045/*	50	.26(.11)	8% (22)	450	27	CIR-4087/240	76	.50(.22)	24 (61)	3000	65	CIR-4240/240	166	1.51(.7)
4 (10)	500	73	CIR-4041/*	50	.26(.11)	10 (25)	500	27	CIR-4103/*	83	.64(.3)	24 (61)	2700	102	CIR-4243/240	166	1.51(.7)
4 (10)	600	88	CIR-4046/240	50	.26(.11)	10 (25)	750	40	CIR-4104/240	83	.64(.3)	36 (91)	3000	44	CIR-4361/240	237	2.27(1)
4 (10)	750	110	CIR-4040/*	50	.26(.11)	10 (25)	1000	54	CIR-4100/240	83	.64(.3)	36 (91)	3500	51	CIR-4360/240	237	2.27(1)
4 (10)	1000	147	CIR-4042/240	50	.26(.11)	10 (25)	1500	81	CIR-4101/240	83	.64(.3)						
4% (11)	240	32	CIR-4043/*	51	.28(.13)	10 (25)	2000	108	CIR-4102/240	83	.64(.3)						

* Specify voltage, insert "-120" for 120 Vac or "-240" for 240 Vac. Model numbers that contain "/120" or "/240" are available only in those voltages. **Note:** 1/2" diameter CIR series cartridge heaters use 16 AWG stranded lead wire.

Ordering Example: CIR-4020/240, 5/8" diameter cartridge heater, 120 Vac, \$41.

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