

HIGH WATT DENSITY CARTRIDGE HEATERS WITH INCOLOY® SHEATH 3/8" DIAMETER

CIR Series

- ✓ Premium Quality
- ✓ Rugged Construction
- ✓ 120 and 240V Models Available
- ✓ Lengths from 1¼ to 24" (3 to 61 cm)

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. They are available in lengths from 1¼ to 24" (3 to 61 cm).

SPECIFICATIONS

Sheath: Material, Incoloy; black oxide finish for efficient heat transfer; maximum temperature 816°C (1500°F) welded, sealed tip

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

Heater Wire: Premium grade nickel-chromium 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: Connector for high reliability and longer life; vibration and shock resistant construction

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

3/8" Nominal Diameter CIR Series
(Actual Diameter and Tolerance: 0.373" ±0.005")

To Order

Sheath in (cm)	Watt	W/in ²	Model No.	Weight lb (kg)	Stht. in (cm)	Watt	W/in ²	Model No.	Weight lb (kg)	Sheath in (cm)	Watt	W/in ²	Model No.	Weight lb (kg)
1¼(3)	100	114	CIR-2013/120	0.05 (0.2)	2½(6)	250	107	CIR-20251/*	0.10 (0.05)	5 (13)	750	142	CIR-2054/240	0.20 (0.09)
1¼(3)	125	143	CIR-20131/120	0.05 (0.2)	2½(6)	300	129	CIR-2029/*	0.10 (0.05)	5 (13)	1000	190	CIR-2056/240	0.20 (0.09)
1¼(3)	150	171	CIR-2012/*	0.05 (0.2)	2½(6)	400	171	CIR-2026/*	0.10 (0.05)	5¼(13)	200	44	CIR-2057/240	0.21 (0.1)
1¼(3)	200	228	CIR-2014/*	0.05 (0.2)	2½(6)	500	214	CIR-20252/*	0.10 (0.05)	5½(14)	600	102	CIR-2058/240	0.22 (0.1)
1½(4)	50	43	CIR-2018/120	0.06 (0.3)	2¾(7)	250	91	CIR-20253/120	0.11 (0.05)	5½(14)	1000	171	CIR-2059/240	0.24 (0.1)
1½(4)	85	73	CIR-2016/120	0.06 (0.3)	2¾(7)	300	109	CIR-20254/240	0.11 (0.05)	6 (15)	200	31	CIR-2064/120	0.24 (0.1)
1½(4)	100	85	CIR-20151/*	0.06 (0.3)	3 (8)	100	34	CIR-2032/*	0.12 (0.05)	6 (15)	250	39	CIR-2061/*	0.24 (0.1)
1½(4)	130	111	CIR-20152/240	0.06 (0.3)	3 (8)	150	51	CIR-2033/*	0.12 (0.05)	6 (15)	400	62	CIR-2065/*	0.24 (0.1)
1½(4)	150	129	CIR-2019/*	0.06 (0.3)	3 (8)	200	68	CIR-2031/*	0.12 (0.05)	6 (15)	500	78	CIR-2060/*	0.24 (0.1)
1½(4)	200	171	CIR-2015/*	0.06 (0.3)	3 (8)	250	85	CIR-2034/*	0.12 (0.05)	6 (15)	600	93	CIR-2066/*	0.24 (0.1)
1½(4)	250	214	CIR-20191/*	0.06 (0.3)	3 (8)	300	103	CIR-20301/*	0.12 (0.05)	6 (15)	750	117	CIR-2062/240	0.24 (0.1)
1¾(4)	125	85	CIR-2017/120	0.06 (0.3)	3 (8)	400	137	CIR-20302/*	0.12 (0.05)	6 (15)	1000	155	CIR-2063/240	0.24 (0.1)
1¾(4)	175	120	CIR-20171/120	0.06 (0.3)	3 (8)	500	171	CIR-2030/*	0.12 (0.05)	6½(17)	600	85	CIR-2067/240	0.26 (0.1)
1¾(4)	250	170	CIR-20172/*	0.06 (0.3)	3 (8)	600	205	CIR-2036/240	0.12 (0.05)	6½(17)	1000	143	CIR-2068/240	0.26 (0.1)
1⅞(5)	200	128	CIR-20173/120	0.06 (0.3)	3½(9)	250	71	CIR-2037/*	0.14 (0.06)	7 (18)	250	33	CIR-2070/*	0.28 (0.1)
2 (5)	50	29	CIR-20201/120	0.07 (0.3)	3½(9)	300	86	CIR-2038/*	0.14 (0.06)	7 (18)	600	79	CIR-2076/*	0.28 (0.1)
2 (5)	75	42	CIR-20209/120	0.07 (0.3)	3½(9)	500	142	CIR-2035/*	0.14 (0.06)	7 (18)	1000	131	CIR-2079/240	0.28 (0.1)
2 (5)	100	57	CIR-20202/*	0.07 (0.3)	3⅞(10)	150	37	CIR-2039/120	0.15 (0.07)	7½(19)	600	73	CIR-2075/240	0.30 (0.1)
2 (5)	150	85	CIR-2021/*	0.07 (0.3)	3⅞(10)	500	128	CIR-20303/240	0.15 (0.07)	7½(19)	1000	122	CIR-2077/240	0.30 (0.1)
2 (5)	200	114	CIR-20203/*	0.07 (0.3)	4 (10)	125	30	CIR-2045/*	0.16 (0.07)	8 (20)	300	34	CIR-2081/*	0.32 (0.1)
2 (5)	250	142	CIR-2020/*	0.07 (0.3)	4 (10)	150	37	CIR-2041/*	0.16 (0.07)	8 (20)	400	45	CIR-2082/120	0.32 (0.1)
2 (5)	300	171	CIR-20204/*	0.07 (0.3)	4 (10)	175	44	CIR-2046/120	0.16 (0.07)	8 (20)	500	57	CIR-2085/*	0.32 (0.1)
2 (5)	350	199	CIR-20205/*	0.07 (0.3)	4 (10)	200	51	CIR-2044/240	0.16 (0.07)	8 (20)	600	68	CIR-2086/*	0.32 (0.1)
2 (5)	400	228	CIR-20206/*	0.07 (0.3)	4 (10)	250	61	CIR-2042/*	0.16 (0.07)	8 (20)	700	80	CIR-2080/*	0.32 (0.1)
2 (5)	500	262	CIR-20207/*	0.07 (0.3)	4 (10)	300	73	CIR-2040/*	0.16 (0.07)	8 (20)	1000	115	CIR-2089/240	0.32 (0.1)
2¼(6)	75	37	CIR-20225/120	0.08 (0.4)	4 (10)	400	102	CIR-2047/*	0.16 (0.07)	9½(24)	600	57	CIR-2090/240	0.38 (0.2)
2¼(6)	100	49	CIR-20221/*	0.08 (0.4)	4 (10)	450	110	CIR-2048/240	0.16 (0.07)	9½(24)	1000	97	CIR-2091/240	0.38 (0.2)
2¼(6)	125	61	CIR-2023/*	0.08 (0.4)	4 (10)	500	122	CIR-2043/*	0.16 (0.07)	10 (25)	400	36	CIR-2102/120	0.40 (0.2)
2¼(6)	150	73	CIR-20222/*	0.08 (0.4)	4 (10)	550	133	CIR-2049/120	0.16 (0.07)	10 (25)	600	54	CIR-2100/*	0.40 (0.2)
2¼(6)	175	86	CIR-20226/120	0.08 (0.4)	4½(11)	300	64	CIR-20401/*	0.18 (0.08)	10 (25)	1000	90	CIR-2101/240	0.40 (0.2)
2¼(6)	200	98	CIR-20223/*	0.08 (0.4)	4½(11)	500	106	CIR-20402/*	0.18 (0.08)	12 (30)	500	30	CIR-2122/120	0.48 (0.2)
2¼(6)	250	122	CIR-2022/*	0.08 (0.4)	4⅞(12)	300	58	CIR-20403/240	0.19 (0.09)	12 (30)	600	45	CIR-2123/*	0.48 (0.2)
2¼(6)	300	147	CIR-20224/*	0.08 (0.4)	4⅞(12)	500	97	CIR-20404/240	0.19 (0.09)	12 (30)	900	67	CIR-2120/*	0.48 (0.2)
2¼(6)	350	172	CIR-20227/*	0.08 (0.4)	5 (13)	150	29	CIR-2055/*	0.20 (0.09)	12 (30)	1000	74	CIR-2121/240	0.48 (0.2)
2½(6)	75	34	CIR-2025/120	0.09 (0.4)	5 (13)	200	88	CIR-2051/*	0.20 (0.09)	15 (38)	1100	65	CIR-2150/240	0.80 (0.4)
2½(6)	165	75	CIR-2024/*	0.09 (0.4)	5 (13)	300	57	CIR-2052/*	0.20 (0.09)	20 (51)	1300	57	CIR-2200/240	0.80 (0.4)
2½(6)	100	43	CIR-2027/240	0.10 (0.05)	5 (13)	400	76	CIR-2050/*	0.20 (0.09)	24 (61)	1500	55	CIR-2240/240	0.90 (0.4)
2½(6)	200	86	CIR-2028/*	0.10 (0.05)	5 (13)	500	95	CIR-2053/*	0.20 (0.09)					

*Designate voltage, insert "120" for 120 Vac or "240" for 240 Vac. Those model numbers containing 120 or 240 are only available in that voltage.
†Consult Sales.

Note: 3/8" (1 cm) diameter CIR series cartridge heaters use 17 AWG stranded lead wire.

Ordering Example: CIR-2054/240, 5" (13 cm), high watt density cartridge heater.