

Sunwarmth™ CIR Technical Specifications

Technical Data

Certified to ANSI/UL Std. 499
Conforms to CAN/CSA E335-1 & E335-2-35

Model	CIR 150-1 I	CIR 150-1 O	CIR 200-2 O	CIR 400-2 O
Item No.	234047	234048	234049	234050
Usage	indoor only	indoor/outdoor	indoor/outdoor	indoor/outdoor
Voltage, 60Hz	120 V (supplied with plug & cord)		240 V (hard-wired / supplied with cord)	
Wattage	1.5 kW	1.5 kW	2.0 kW	4.0 kW
Amperage	12.5 A	12.5 A	8.3 A	2 x 8.3 A
Required circuit breaker(s) ¹	20 A	20 A	15 A	2 x 15 A
Required wire size (copper)	14 AWG	14 AWG	12 AWG	12 AWG
Lamp temperature	2420 ±360 °F / 1325 ±200 °C			
Lamp life (normal conditions)	5,000 hours			
Lamp color temperature	1,600, ±200 K			
Estimated square footage heated ²	108-133 sq. ft.	108-133 sq. ft.	133-165 sq. ft.	205-275 sq. ft.
Average heat density ³	13.9-11.3 W/ft ²	13.9-11.3 W/ft ²	15-12.1 W/ft ²	19.5-14.5 W/ft ²
Height	5 11/16" / 145 mm			
Width	15 9/16" / 395 mm	18 9/16" / 395 mm	18 9/16" / 395 mm	38 1/2" / 978 mm
Depth	4 7/16" / 112 mm	4 1/4" / 108 mm	4 1/4" / 108 mm	4 7/16" / 112 mm
Weight	4.85 lb / 2.2 kg	5.5 lb / 2.5 kg	5.5 lb / 2.5 kg	8.8 lb / 4.0 kg

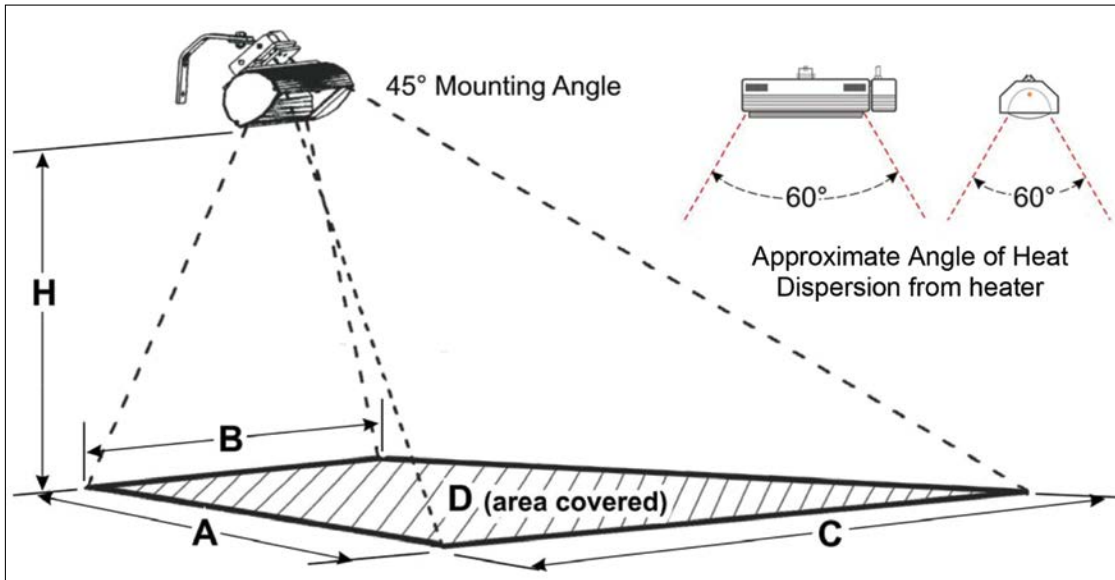
¹ CIR heaters must be installed on a circuit with a timer or timer switch.

² When installed as specified in installation manual.

³ Heat input needed is 2 W/ft² per °F temp. rise for outdoors and .75 W/ft² per °F temp. rise for indoors (discounting wind). (A 10 x 20 ft outdoor patio needing 15°F temp/ rise would be 10x20x15x2 = 6,000 W or 3 CIR 200-2.)

Scroll for mounting
& coverage info. ↓

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Mounting and Coverage Information

Model	Wattage	H Mounting height	Dimensions of area heated				E Average heat density
			A Length heated	B Width heated close to heater	C Width heated far from heater	D Size of heated area	
CIR 150-1 I, CIR 150-1 O	1500 W	Minimum: 7' (2.1 m)	8' 10" (2.7 m)	8' 6" (2.6 m)	16' 1" (4.9 m)	108 ft ² (10.1 m ²)	13.9 W/ft ² (148.5 W/m ²)
		Maximum: 8' (2.4 m)	9' 10" (3.0 m)	9' 2" (2.8 m)	18' 1" (5.5 m)	133 ft ² (12.4 m ²)	11.3 W/ft ² (121.0 W/m ²)
CIR 200-2 O	2000 W	Minimum: 8' (2.4 m)	9' 10" (3.0 m)	9' 2" (2.8 m)	18' 1" (5.5 m)	133 ft ² (12.4 m ²)	15.0 W/ft ² (161.3 W/m ²)
		Maximum: 9' (2.7 m)	11' 2" (3.4 m)	9' 10" (3.0 m)	20' (6.1 m)	165 ft ² (15.3 m ²)	12.1 W/ft ² (130.7 W/m ²)
CIR 400-2 O	4000 W	Minimum: 10' (3.0 m)	11' 10" (3.6 m)	11' 2" (3.4 m)	23' (7.0 m)	205 ft ² (19.0 m ²)	19.5 W/ft ² (210.5 W/m ²)
		Maximum: 11' 6" (3.5 m)	13' 5" (4.1 m)	14' 1" (4.3 m)	27' 7" (8.4 m)	275 ft ² (25.4 m ²)	14.5 W/ft ² (157.5 W/m ²)