



# SCS PRECISIONCURE TC (IR)

## SCS PRECISIONCURE TC (IR) CURING SYSTEM

The SCS PrecisionCure TC infrared radiation (IR) thermal curing system provides customers with the reliability and efficiency needed throughout the curing process. Available with two or four heating zones, each zone is heated with 12 ceramic heaters for even zone heating.

The PrecisionCure TC (IR) can operate as a stand-alone machine or fully integrate with the SCS PrecisionCoat selective conformal coating and dispense system. The curing system features Windows®-based software with a touchscreen monitor and is designed for continuous operation, requiring minimal downtime for maintenance. The unit's optional humidity control incorporates an ultrasonic spray nozzle and humidity sensor to elevate the tunnel's relative humidity, decreasing the cure time for certain types of materials with a secondary moisture curing mechanism.

## SYSTEM FEATURES

- Heating profile database
- Independently-controlled heating zones
- Pin-chain-edge handling
- Left to right conveyor travel
- Powered conveyor width adjust
- 4-inch top and bottom pass-through heights
- Double-walled heat enclosure
- Optical inlet/outlet sensors
- Windows-based software with touchscreen display
- Side access panels
- Automatic runaway heater shutdown
- Exhaust interlock sensor
- SMEMA interface

## OPTIONS

- Tower light
- Temperature profiling and analysis
- IR board temperature monitoring
- Humidity control
- Barcode reader
- Right to left conveyor travel
- Automated programmable width



PrecisionCure TC (IR)  
Four Zone System



## SCS PRECISIONCURE TC (IR) SPECIFICATIONS

<b>Heat source</b>	Ceramic infrared heating units
<b>Ceramic heater temperature</b>	Maximum temperature: 275°C / 525°F
<b>Electrical options</b>	Two Zone System: 208, 220, 230, 420, 440, 460 Vac, 3Ø, 50/60 Hz, 7 KVA Four Zone System: 208, 220, 230, 420, 440, 460 Vac, 3Ø, 50/60 Hz, 13 KVA
<b>Exhaust requirements</b>	350 CFM / 155 m <sup>3</sup> /hr at 0.2 in water column
<b>Conveyor type</b>	Pin-chain-edge handling with 0.375 in / 0.95 cm pin chain
<b>Conveyor speed</b>	0.5 to 120 in/min / 1 to 300 cm/min
<b>Substrate width</b>	2.5 to 20 in / 6.5 to 50.8 cm
<b>Substrate length</b>	Minimum length: 4 in / 10.2 cm
<b>Drive system</b>	Direct-drive stepper motor
<b>Tunnel clearance</b>	4 in / 10 cm (top and bottom)
<b>System Dimensions (W x D x H)</b>	Two Zone System: 74.5 x 39.6 x 50 in / 189.2 x 100.7 x 119.3 cm Four Zone System: 122.5 x 39.6 x 50 in / 311.2 x 100.7 x 119.3 cm
<b>Weight, skidded</b>	Two Zone System: 750 lb / 340 kg Four Zone System: 1,100 lb / 499 kg



PrecisionCure TC (IR)  
Two Zone System

## INNOVATIVE SOLUTIONS FOR ADVANCED TECHNOLOGIES

With over 50 years of experience and locations around the world, Specialty Coating Systems is the global leader in conformal coating technologies. This extensive coating and application experience is leveraged on each and every customer project, including the industry-leading systems that SCS designs and manufactures. From conformal coating, dispensing and cure systems to ionic contamination test systems, SCS equipment is used in environments that range from university and research labs to high-volume production facilities. SCS' proactive approach to production and quality requirements—testing, validating, documenting and processing—enables customers and their advanced technologies to meet the most challenging industry specifications and quality requirements.



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