

Curing Adhesive on Synthetic Materials with Model 5194 Infrared Line Heaters

Application

An airline service center curing adhesive on synthetic materials while repairing the interior of airplanes.

Problem

Portability - The curing station needed to be portable so it could easily be moved from place to place within different airplanes.

Speed - The service center needed a fast method of completing the cure to remain profitable.

Size - The curing station needed to be able to apply heat in small, restricted areas.

Solution

Heat - Two Model 5194-04 Infrared Line Heaters were used to heat the adhesive and effect the cure.

Instant On/Off - The quartz lamps in the Infrared Line Heaters heated up and cooled down instantly in response to power changes.

System Integration - The heaters were mounted in a V-shaped, hand-held fixture. The fixture was attached to a transportable cabinet that contained power control and cooling systems for the heaters.

Benefits

Portability - By integrating the Infrared Line Heaters with transportable power control and cooling systems, the service center was easily able to move the curing station between and within airplanes.

Responsive Heat Source - The design of the Infrared Line Heaters, combined with the instant on/off capability of the lamps, cured the adhesive virtually instantly.

Compact Size - The compact size of the Infrared Line Heaters (7.5 by 4.5 inches [190 by 114 mm] each), enabled the service center to use the curing station in small, restricted areas.

Safe Heat Source - The instant on/off capability of the lamps ensured safe operation and transportation of the curing station which was turned off when being transported or otherwise not in use.