

Drying Ink on Paper with a Model 4554 High Density Pyropanel and a Model 4185 Infrared Strip Heater

Application

A printer drying ink applied with a graphic imager and an ink-jet printer on direct mail pieces printed on web stock.

Problem

Slow Line Speeds - Existing convective air and low intensity infrared drying systems frequently limited line speeds to less than 400 feet (122 meters) per minute.

Limited Production Output - The slow line speeds were limiting the printers production output.

Varied Printing Widths - The graphic imager was printing on 12 to 13 inch (305 to 330 mm) wide webs. The ink-jet printer was printing on 1.5 inches (38 mm) of the web width.

Solution

Heat - A Model 4554 High Density Pyropanel applied heat to dry the ink from the graphic imager. A Model 4185 Infrared Strip Heater applied heat to dry the ink from the ink-jet printer.

Power Control - Model 664F Phase Angle SCR Power Controllers controlled the power to the High Density Pyropanel and Infrared Strip Heater.

Benefits

Increased Line Speeds - Line speeds of 800 feet (244 meters) per minute were achieved using the Model 4554 High Density Pyropanel and Model 4185 Infrared Strip Heater to dry the ink.

Increased Production Output - The increased line speed enabled the printer to double production output.