



FOCUS ON EMERGING TECHNOLOGY

HIGH EFFICIENCY ELECTRIC INFARED (IR) DRYING

Technology Description

Infrared (IR) dryers are used on paper machines and paper coaters to ensure consistent moisture across the width of the sheet and to dry paper coatings. High efficiency dryers incorporate innovative design features compared to conventional electric IR dryers including:

- Integrated gold-plated reflectors to maximize infrared radiation reaching the material. These reflectors also do not require cleaning.
- Hydroxyl-free quartz lamps which absorb very little IR and cool to the touch within tseconds of shutting off.
- Scouring of the moisture-saturated air from the media surface to increase the rate of drying.

Benefits

1. Lower energy consumption.
2. Improved safety.
3. Lower maintenance.
4. Simple replacement of conventional drying with high efficiency drying.

Customer Type

Paper mills.

Applications

IR dryers in paper machines and paper coaters.

Market Sectors

Industrial.

Potential Energy Savings

Up to 50% more efficient than conventional technology.

Potential Payback Range

Two to four years pre-incentive.

Incentives Available

Download and complete the [Custom Project Incentive Guide](#) [PDF] . [Find an Energy Advisor](#) to get started.