
Energy Consumption for the Coating Process: Air Dryer vs. IR-Dryer

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The first part of the presentation introduces the paper mill of Cartiere del Garda and its already implemented goals in a process aimed towards an increased sustainability and a reduction in energy consumption.

It is followed by a discussion of the energy efficiency of gas fired IR dryers in comparison to air dryers. A smart nozzle design allows for a considerable increase in energy transmission of air dryers. The direct approach flow leads to turbulences and higher drying performance. The new air dryers show a lower ambient temperature and combine this with a lower maintenance cost, when compared to IR dryers.

The minor migration of water and coating colour into the paper, lead to a higher smoothness and a smaller danger of mottling.
