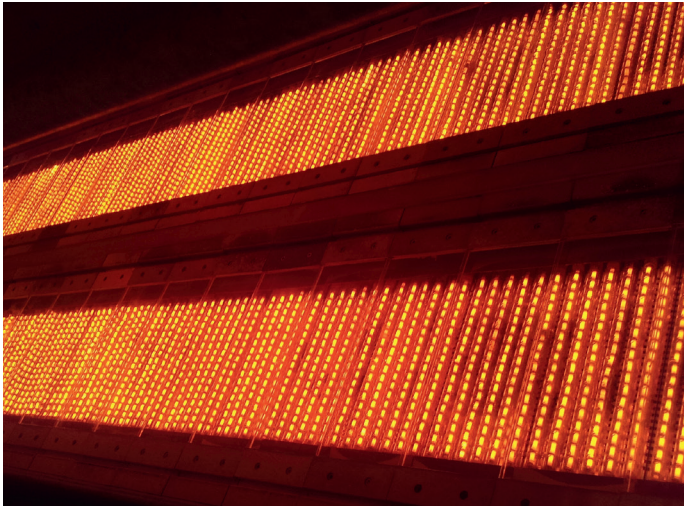


IRT POWERHOOD, PAPER AND BOARD MANUFACTURING



PROJECT DESCRIPTION

■ Type of industry:

Paper and board manufacturing

OBJECTIVE

Heating and coat drying to increase capacity and improve quality with moisture profile correction in narrow zones.

PROCESS

■ Parts, material and dimensions:

Paper and board production

■ Type of transport, static/dynamic, speed etc:

Speed examples 400-2000 m/min

■ Material (wet-dry paint/other), max temp allowed etc:

Coat drying (one or two-sided), latex

Size drying, starch

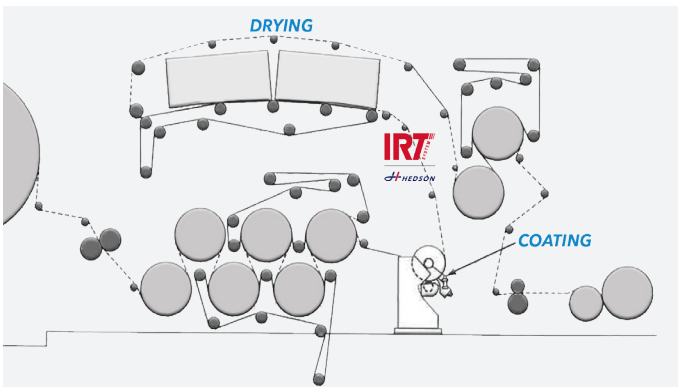
Moisture profiling

IRT HEDSON SOLUTION

■ Chosen heating method, cassette dimensions, time, temperature increase/min, effect etc:

The PowerHood system is typically installed between the coater and the following air dryers, to improve the quality and increase the capacity.

The PowerHood can also dry the coating to avoid a sticky surface on the first cylinder.



IRT HEDSON INDUSTRIAL SOLUTIONS

We develop, manufacture and supply custombuilt IRT drying and curing solutions to all industrial sectors.

IRT is a trademark belonging to Hedson Technologies, an environmental engineering corporation and world leading supplier of cleaning, curing and lifting equipment.



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The manufacturer reserves the right to introduce technical modifications.



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CASE: MOISTURE PROFILING

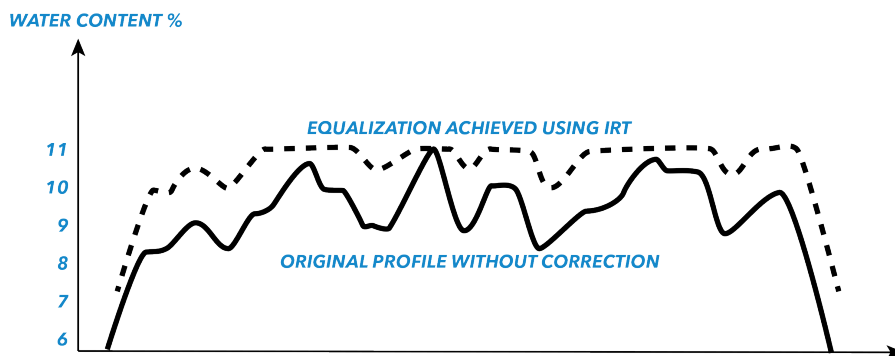
PAPER AND BOARD MANUFACTURING

The IRT PowerHood is a well-known moisture corrective tool in the paper and board production.

The moisture variation is scanned and all data is communicated to the PowerHood which adjusts the heating zones power accordingly.

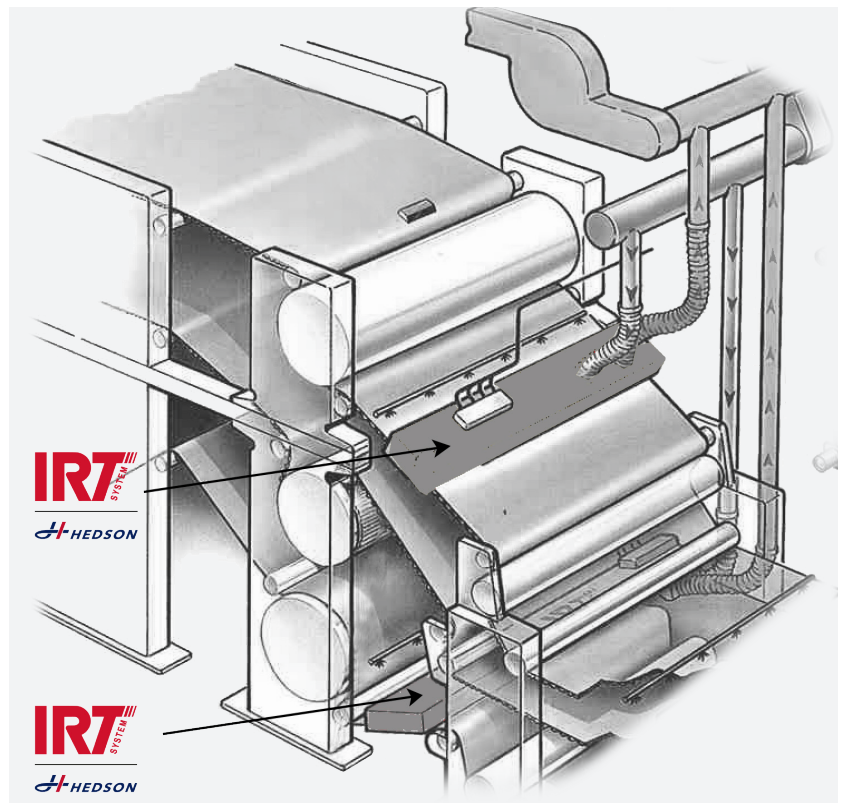
An ideal moisture profile in a specific process can be, for example $4\% \pm 1\%$. The objective is to reduce the moisture peaks and variations to achieve for example $4\% \pm 0,4\%$. After increasing the moisture profile slightly, IR-heat is added in a controlled manner, to achieve the requested moisture profile.

IRT PowerHood is a low maintenance infrared solution up to 400 kW/m^2 .



- Moisture profile equalization using IRT PowerHood, by increasing the average water content.

- Warp and curl are the major causes for sheet product rejection. This applies to most coated products and results in costly waste, productivity losses and is also a continuous source of customer complaints.
- The IRT PowerHood is installed in the production line (marked with IRT-logotype in the image to the right) and adds IR-heat in accordance with the information received from a moisture scanner.
- The moisture drying and correction equation is solved.



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