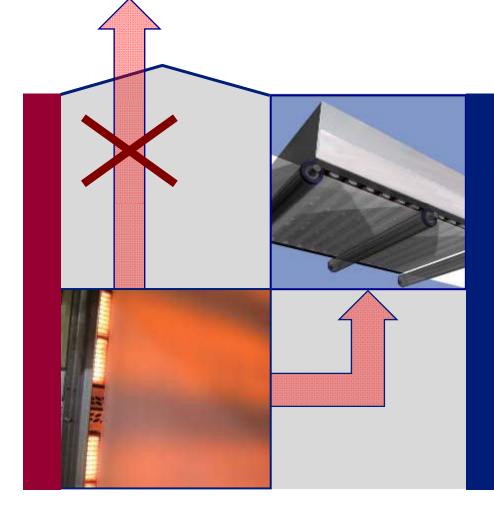
## VOITH

#### Voith Paper



#### qDry Pro -

The Professional Integration of Infrared and Hot Air Dryers

Martin Schmid Voith Paper Inc., Appleton, WI

## VOITH

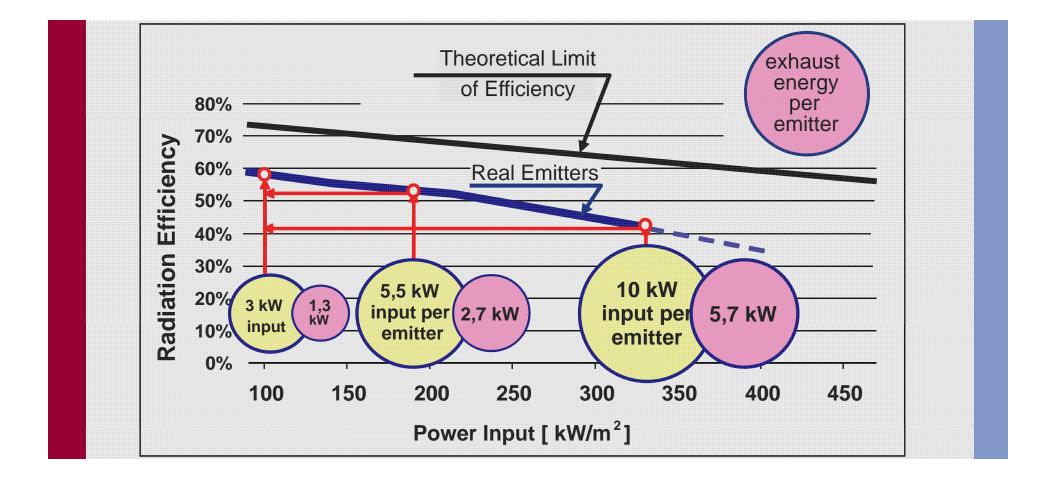
#### Sustainability – The Vision for the Future of Paper Production

Raw material	Energy	Water
Maximizing the recycling rate	Reducing worldwide primary energy consumption by half	Lowering consumption of fresh water to less than 1 liter per kg





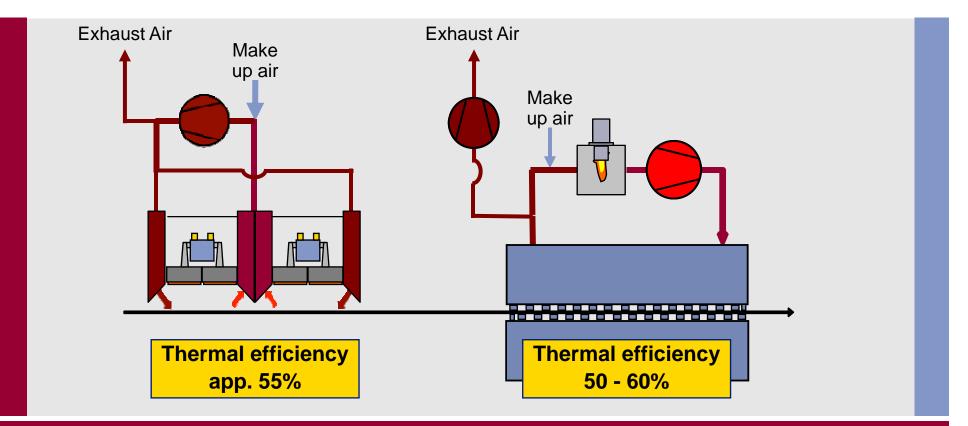
#### **Efficiency of Gas Heated IR - Emitters**



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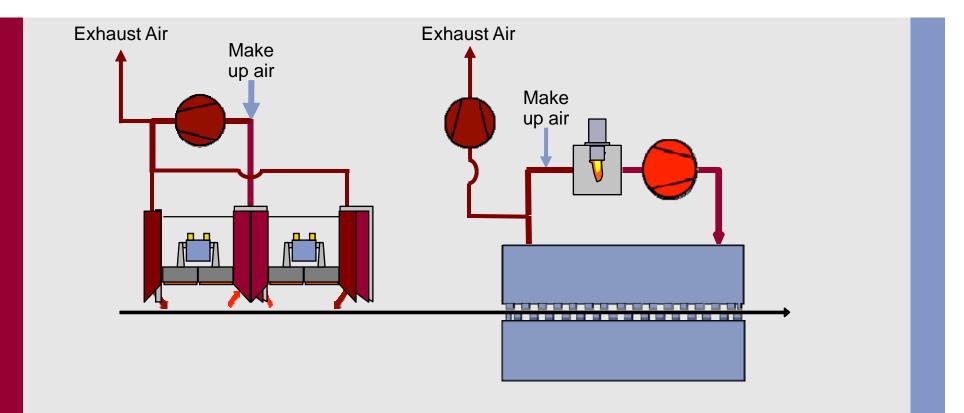
### qDry Pro System Concept



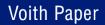
In conventional concepts infrared and hot air systems are operated with separate circulation air systems



### qDry Pro System Concept

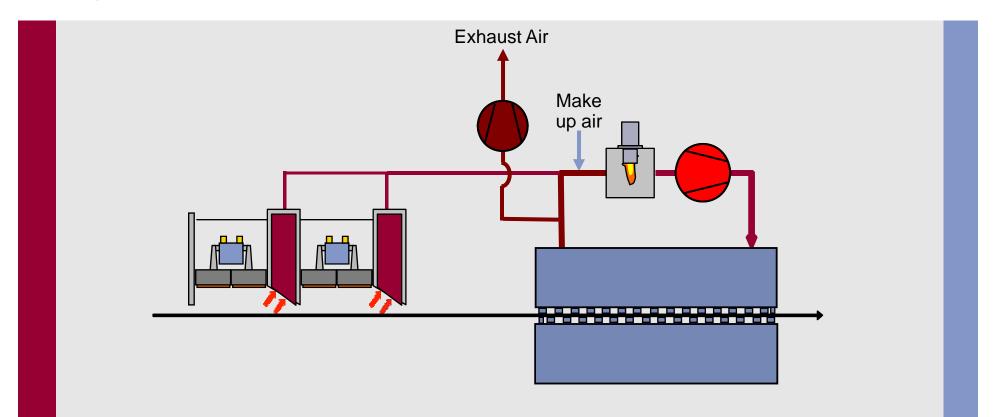


Wide insulated suction channels replace the small blowing and suction air channels





#### qDry Pro System Concept



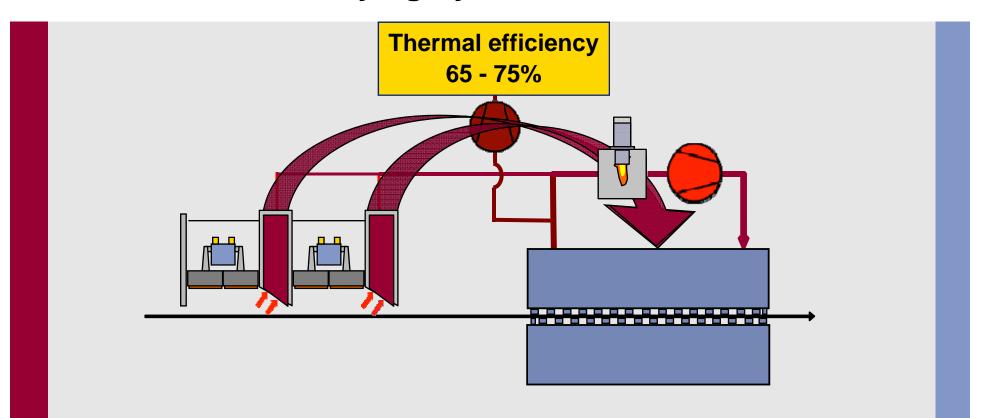
The exhaust gases of the infrared system replace the make up air of the air dryer

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# qDry Pro - The most efficient Combination of Infrared- and Air Drying Systems

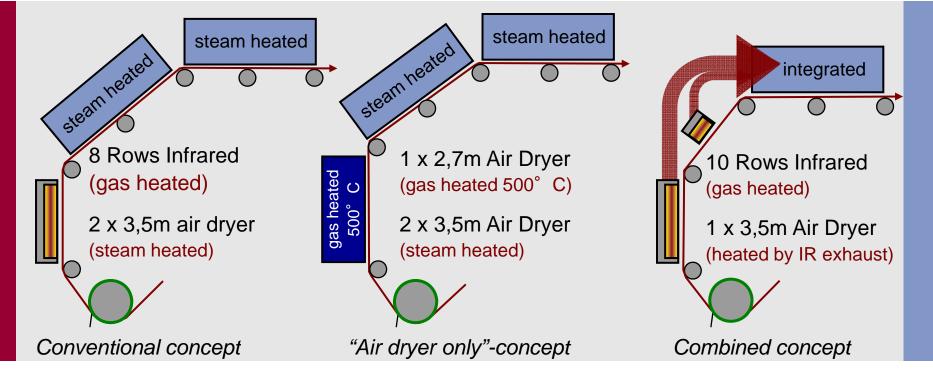


The burning chamber is not needed during operation (at optimum setting used for system heat up only)

#### qDry Pro Advantages and Customer Benefits for CE-Projects

Voith Paper

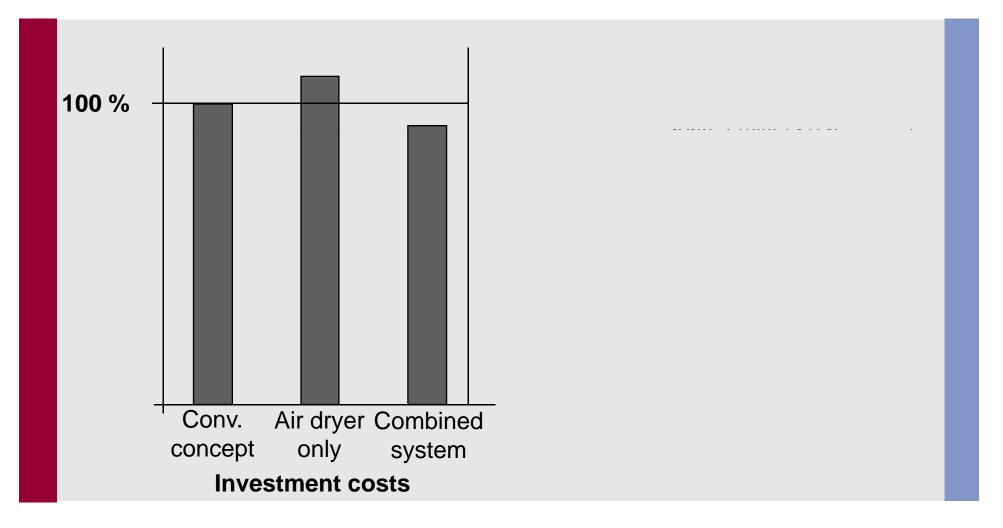
**Example:** Comparison of non contact drying concepts for cWTTL > energy consumption < > quality aspects < > space requirements <







#### Investment and Operating Costs Example: NC Drying after a Top Coater for cWTTL



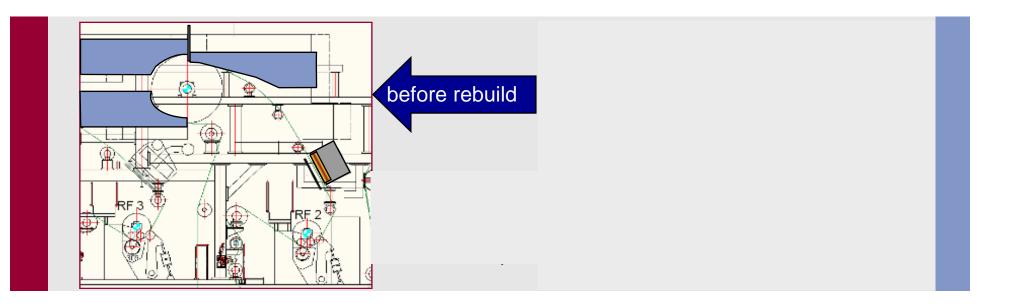


#### qDry Pro Rebuild Potential Reference: N.N. / Germany 2010

Main project target: Remarkable reduction of energy costs

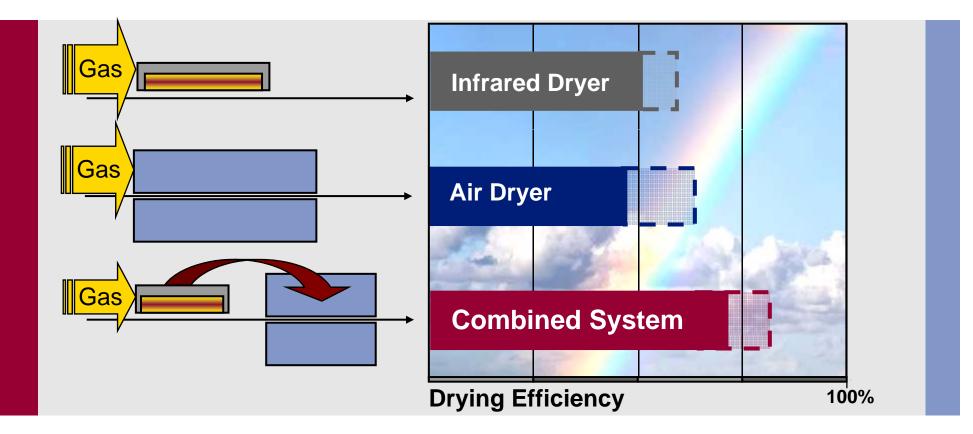
Total energy input:

#### Pay back period < 2.5 years (Germany)



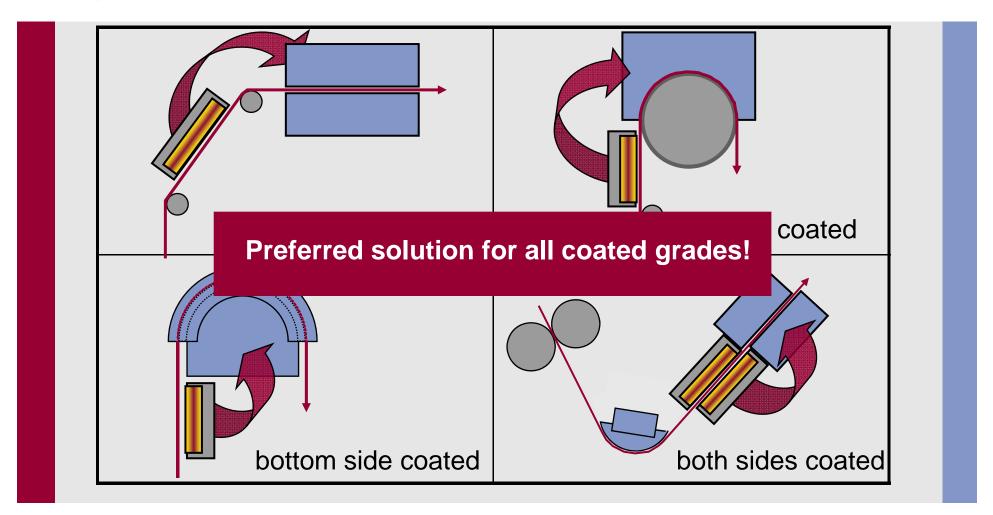


#### qDry Pro Summary





#### qDry Pro System Solutions





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