

Success Story in Tissue Industry:

**Saving energy by reducing
exhaust air with the
PLEVA FS X HT sensor**

The Situation



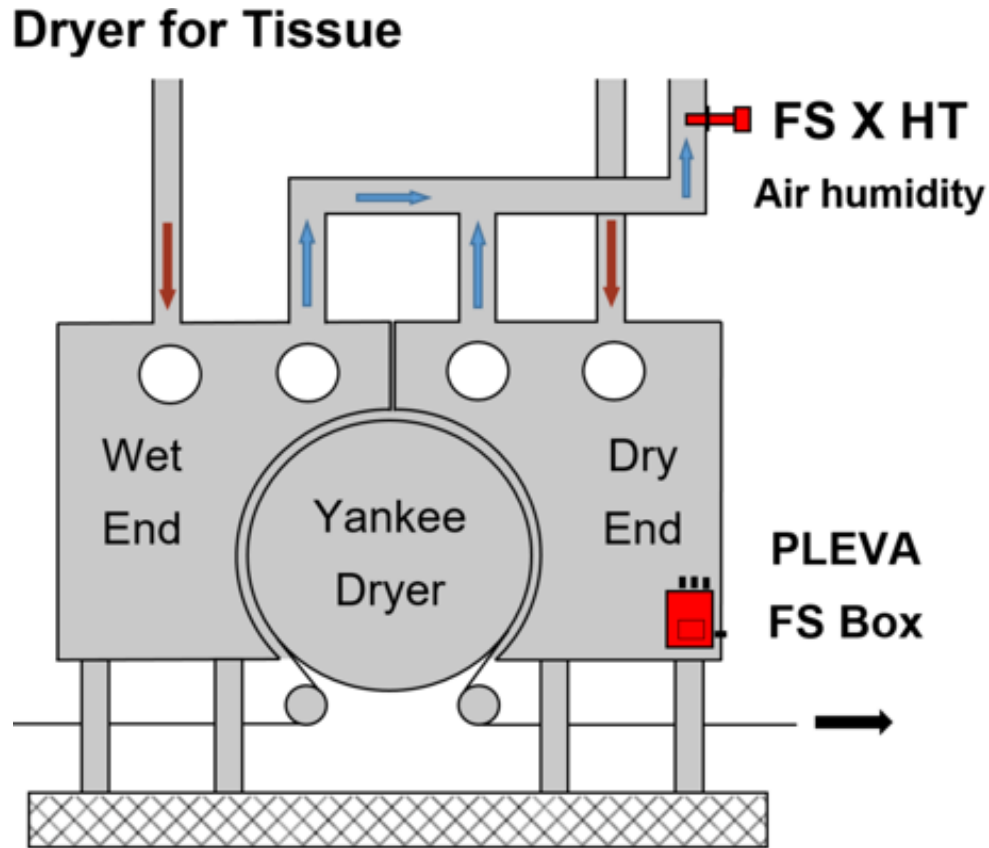
Tissue dryers, like Yankee Dryers, are used for the production of **paper, kitchen rolls, toilet paper, paper tissues** etc.

Thereby, the Yankee Dryer dries the sheet of tissue and carries away the water evaporated from the sheet.

For this process a lot of energy is needed to heat up the air and to carry away the water.

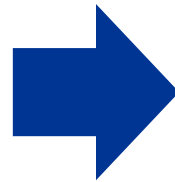
However, the air is mostly not optimally saturated with humidity, leading to a waste of energy.

The Solution



Measurement and control of exhaust humidity with the PLEVA FS X HT sensor at the Yankee Dryer

By reducing the exhaust flow the humidity inside the Yankee Dryer increases. This leads to a lower exhaust volume and a lower make-up air volume must be heated up.



Significant savings in energy consumption at burners are achieved.

The Success



The use of the FS X HT sensor brought many advantages to various customers in the tissue production as well as to OEMs:

- **Several 10.000 EUR savings/year** due to reducing the amount of exhaust air and significantly reduced energy costs
- **Payback** periods of only a few months
- Applications at temperatures **up to 600 °C**
- Very **long sensor lifetime** (up to 8 years or even more)
- Connect up to 3 FS X HT sensors to one electronic unit
- **One-time setting** during commissioning, no external technician necessary
- Nearly **maintenance-free**, no cleaning necessary