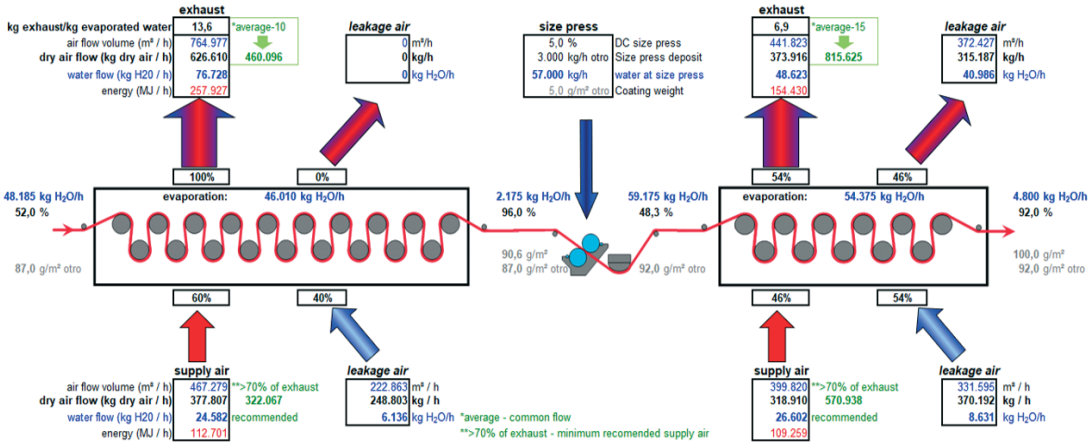
Hood balance

task.
Technical Assistance,
Service and Know-how

When balancing a dryer hood the quantity of water to be evacuated is calculated. However, to be able to evacuate it an appropriate air volume is needed. Experience shows on average that this air volume is around 10 kgs dry air per 1 kg water (pre- dryer). Depending on paper grade and production output the evaporation rates vary. Therefore, a hood balance should be performed at the production output that yields the highest evaporation rates in the dryer section.



Illustrated example

Prerequisites:

During the measuring process a stable machine run without changes to the production (speed, grammage, etc.) is necessary. In order to achieve the best possible results of the measurements the hood should operate as closely to maximum capacity as possible.

Time frame:

To conduct the hood and heat exchanger balance we recommend a dryer section analysis. For conducting both these measuring processes two working days in total should be planned with two service technicians each.

Customer benefits:

- Analysis of conditions in the hood system
- Representation of energy losses
- Recommendations for optimising the hood system
- Demonstrating opportunities for saving energy and possible production increase

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