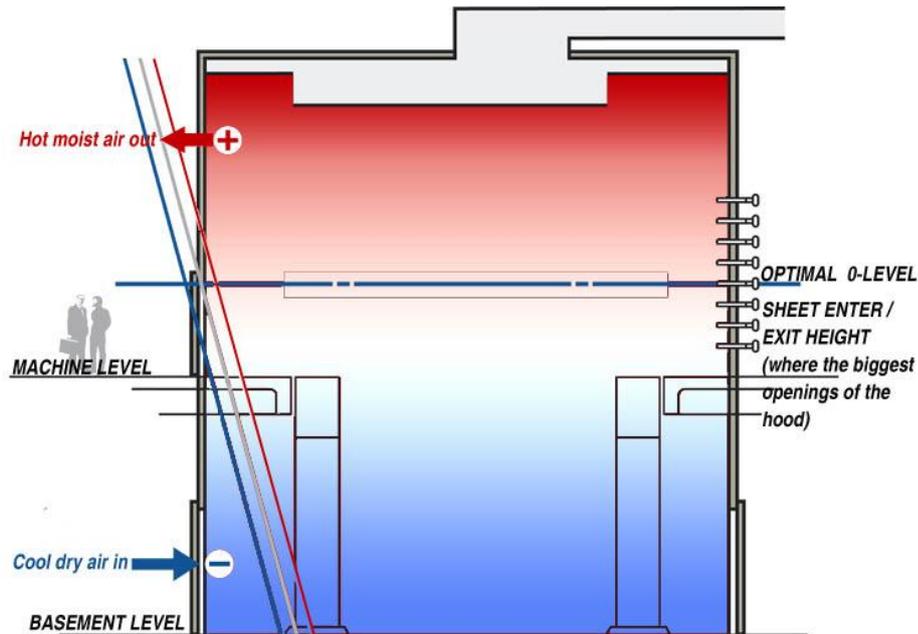


## EV Hood Manager™

controls automatically your hood ventilation for improved runnability and working conditions.

The automatic control of the hood balance is based on the pressure differences in the hood. The upper part of the hood is always over pressurized while the basement is under pressurized.

Pressure differences force hot, moist air to flow from the upper part of the hood. Respectively, cool machine hall air flows from the basement into the hood.



The 0-level is the height, where air pressures are equal in- and outside of the hood. This level has a great effect on production factors, energy consumption and the quality of the paper. Changes on 0-level indicate problems of hood ventilation system.

Optimization of the 0-level brings several benefits:

- less sheet flutter in drying section
- improvements in moisture profile and paper quality
- better working conditions in the machine room
- elimination of condensate dripping on constructions and frames
- less runnability problems and breaks in drying section
- energy savings in drying

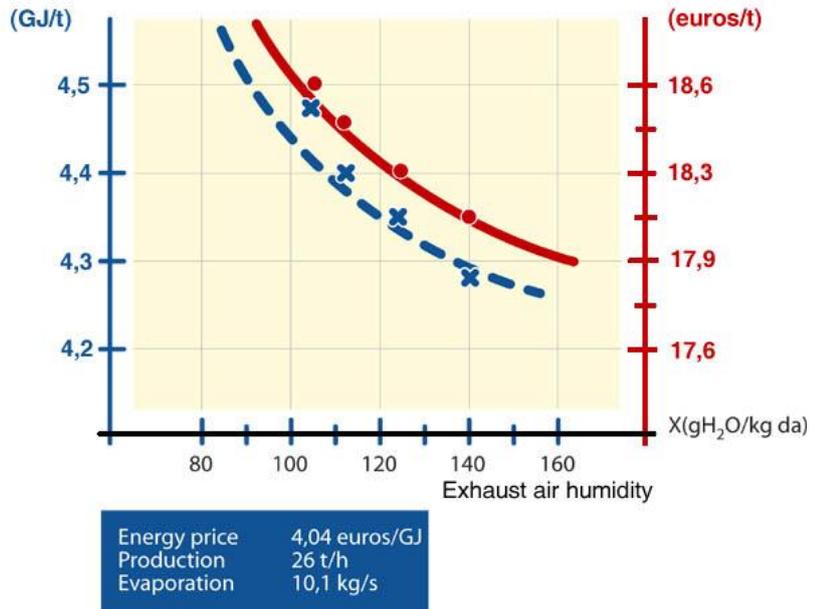
**EV Hood Manager™** includes automatic control system optimizing the exhaust and supply air flows.

Automatic control is based on the following energy-economical principles of the hood:

1. High humidity of exhaust air decreases energy consumption in drying section.
2. High humidity of exhaust air increases heat recovery efficiency.

CASE STUDY 1.

ENERGY CONSUMPTION /PRODUCED TON  
AT DRYING SECTION



EV Hood Manager™ includes:

**1. EV Hood Survey**

EV Survey Team examines the hood air balance and defines what would be the optimal humidity level for runnability and energy efficiency.

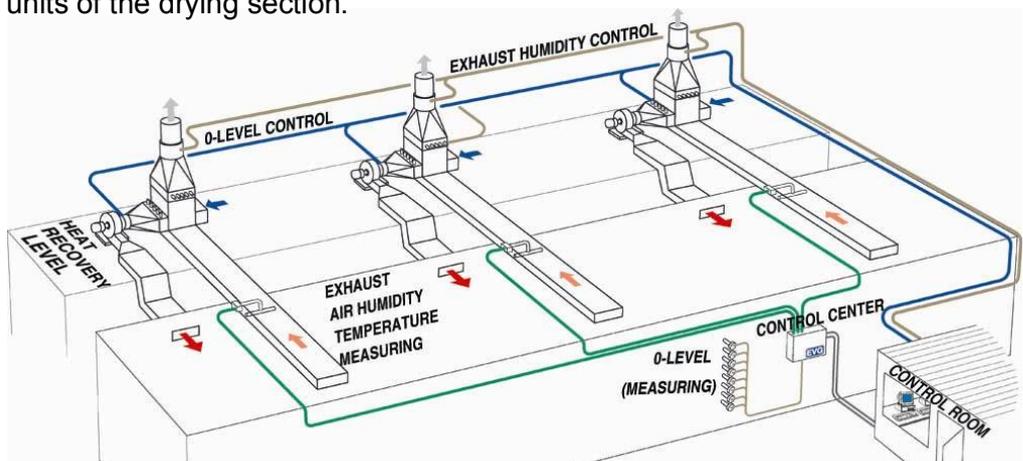
EV Survey Team also examines the 0-levels on machine direction and cross direction.

**2. EV Hood Control**

The automatic control system maintains the optimal exhaust air humidity and 0-level also when production factors change, thus minimizing the energy consumption.

**3. EV Maintenance**

includes an annual audit to adjust the control system for production factors. EV Group takes care of necessary adjustments for the control unit and checks the ventilation units of the drying section.



**EV Group Oy**  
High Tech Centre 2  
Lemminkäisenkatu 50  
FIN-20520 Turku

tel. +358 (0)2 276 7670  
fax +358 (0)2 235 1863

evgroup@evgroup.fi  
www.evgroup.fi

Y-tunnus 2108597-1  
VAT reg. FI21085971