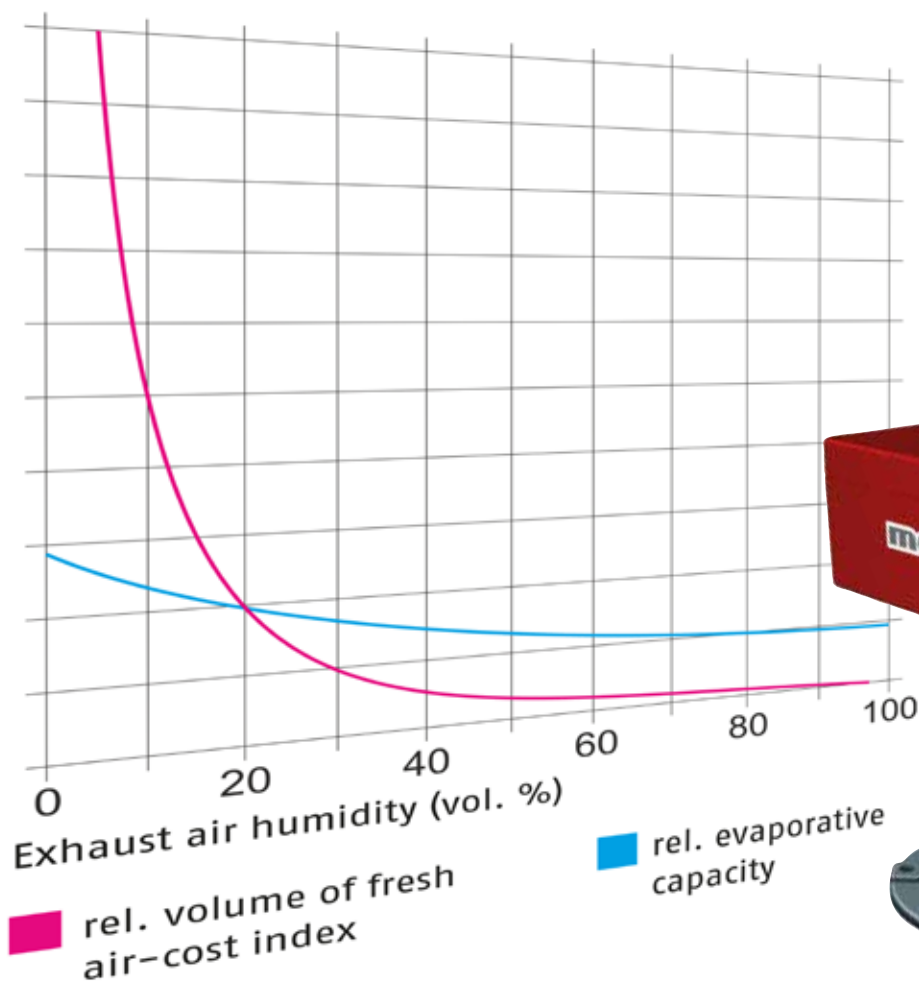


ECOSENSE ZS-12

Exhaust air humidity up – Energy down!

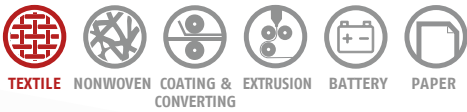


ECOSENSE ZS-12



TEXTILE NONWOVEN COATING & CONVERTING EXTRUSION BATTERY PAPER

EXHAUST AIR HUMIDITY CONTROL



ECOSENSE ZS-12

EXHAUST AIR HUMIDITY UP – ENERGY DOWN!



Much unused energy is wasted through the exhaust air during drying processes without appropriate control. The humidity sensor ZS-12 adapts the heating energy to the actual demand by monitoring the vapour content of the exhaust air and then controls this factor through the fan speed or the exhaust air vent control.

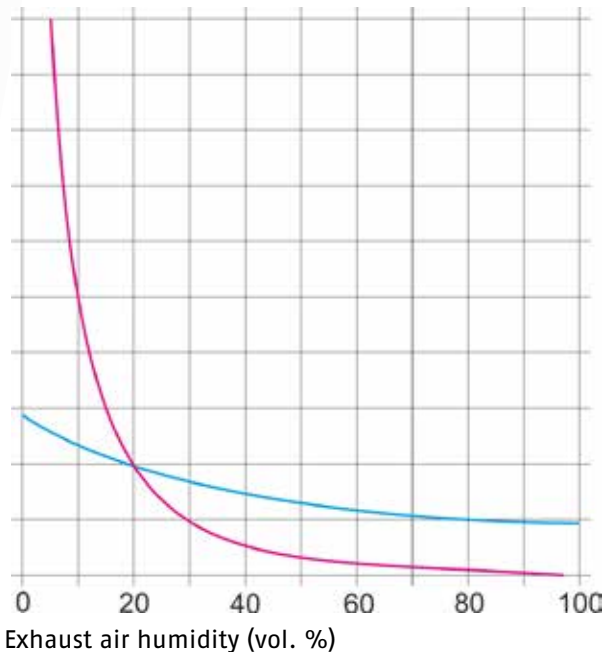
- The energy demand is reduced by the controlled heating demand.
- The constant conditions produced by the control increase the reproducibility of the production process and the product quality.

Product-highlights

- ✓ Non-contact measurement of product temperature
- ✓ High-temperature proof sensors
- ✓ Low maintenance requirements
- ✓ Easy to install
- ✓ Self-cleaning sensors

Customer benefits

- ✓ Maximum repeatability
- ✓ Optimal utilisation of stenter capacity
- ✓ Low energy consumption per meter of product
- ✓ Ultra-reliable processing
- ✓ Short payback times
- ✓ Elimination of safety margins



■ rel. volume of fresh air-cost index

■ rel. evaporative capacity

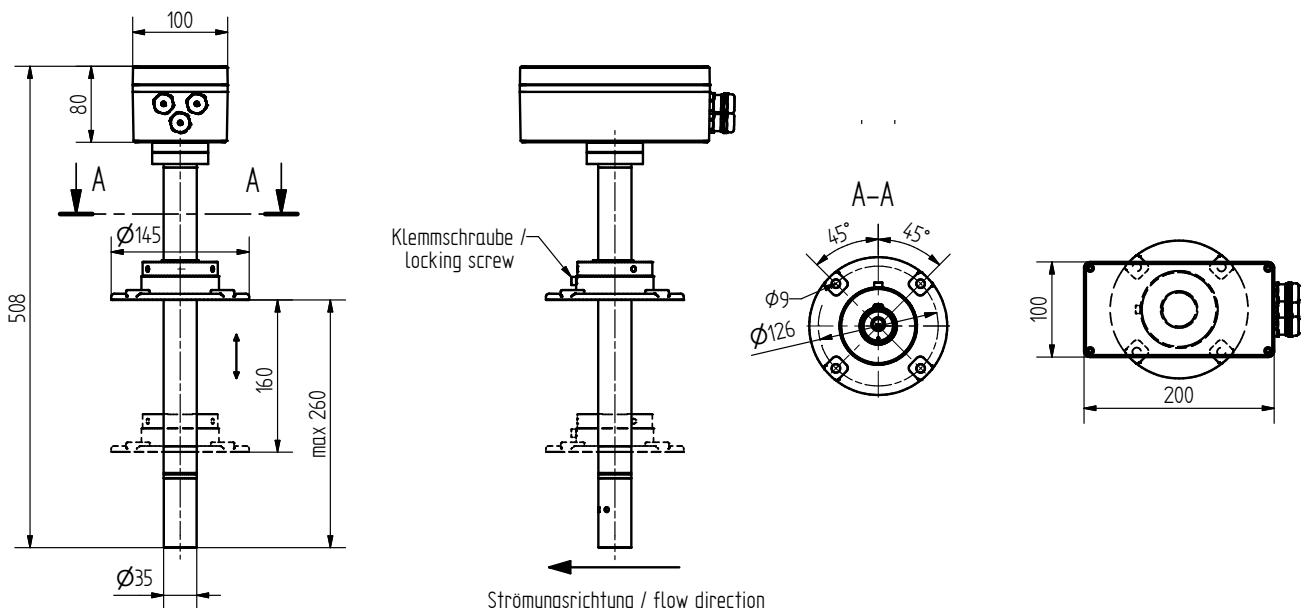
Maximising the exhaust air moisture from 8 to 15 vol. % results in

- reduction of energy consumption by 23 %
- reduction of production costs by 6 %
- maintaining a consistent production speed.

Prerequisite: Working time 240 days/at 3 shifts; product weight: 150 g/m²; product width: 1.6 m; initial moisture: 75 %; residual moisture: 4 %; product speed: 100 m/min; fresh air: 25 °C; exhaust air: 160 °C

Sensor	Ecosense ZS-12		
Measuring range	H ₂ O 30/50/100 Vol. %; 266/622/1000 g/kg;		
Accuracy	≤ 2 Vol. % of maximum scale reading		
Sensor ports	0-20 mA, 4-20 mA		
Max. working temperature	Sensor controller:	0...+65 °C	Sensor: 0...+ 250 °C
Power supply	24 V DC, 0,5 A; 24 V AC, 0,7 A		
Connection	3 EMC cable glands M16 x 1,5, with shield clamping range, protection class IP 67		
Sound pressure level	< 70 dB (A)		
Mechanical data	Sensor	Sensor controller	
Construction	Stainless-steel stem	Die-cast aluminium casing	
Proofing standards	Against measured gases only!	IP 67	
Weight	28 N (~ 2,8 kg)		

Dimensions



Ecosense ZS-12
91-015470-01

Monitoring and control systems, automation

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