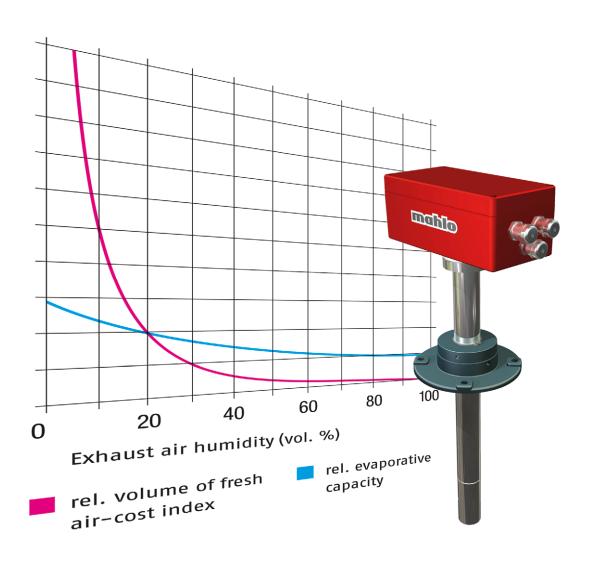


HUMIDITY SENSOR ZS-12

Exhaust air moisture up - Energy down!















EXHAUST AIR MOISTURE CONTROL









HUMIDITY SENSOR ZS-12

EXHAUST AIR MOISTURE 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.

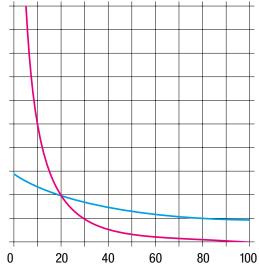
- The energy demand is reduced by the controlled heating
- The constant conditions produced by the control increase the reproducibility of the production process and the product quality.

Product-highlights

- ✓ Non-contact measurement of product temperature
- ✓ High-temperature proof
- ✓ 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



Exhaust air humidity (vol. %)

rel. volume of fresh air-cost index

rel. evaporative capacity

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

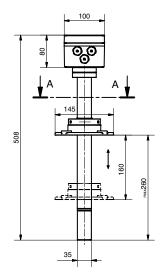
- reduction of energy consumption by 23 %
- reduction of production costs by 6 %
- maintaining a consistent production speed.

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

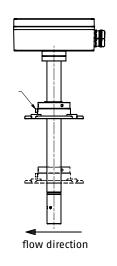


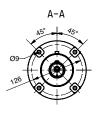
Sensor	Humidity Sensor ZS-12			
Measuring range	H ₂ 0 30/50/100 Vol. %; 266/622/1000 g/kg;			
Accuracy	≤ 2 Vol. % of maximum s	cale reading		
Sensor ports	0-20 mA, 4-20 mA			
Max. working temperature	Sensor controller:	o+65 °C	Sensor:	0+ 250 °C
Power supply	24 V DC, 0,5 A; 24 V AC, 0,7	А		
Connection	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 c	asing
Proofing standards	Against measured gases o	nly!	IP 67	
Weight		28 N (~	2,8 kg)	

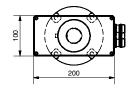
Dimensions



Humidity Sensor ZS-12 91-015470-01









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