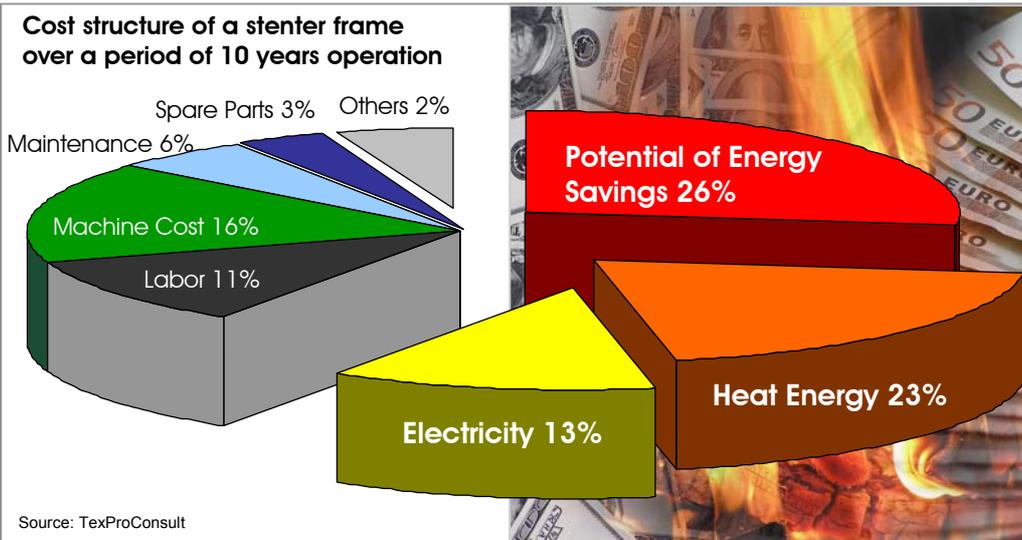


Big Potential of Energy Saving on Drying Process

Drying in the textile finishing is a highly energy intensive process. More than 62% on the cost of a stenter frame are spent on energy. Minimization of energy consumption and reduction of energy cost must be given the highest priority in every textile production plant.



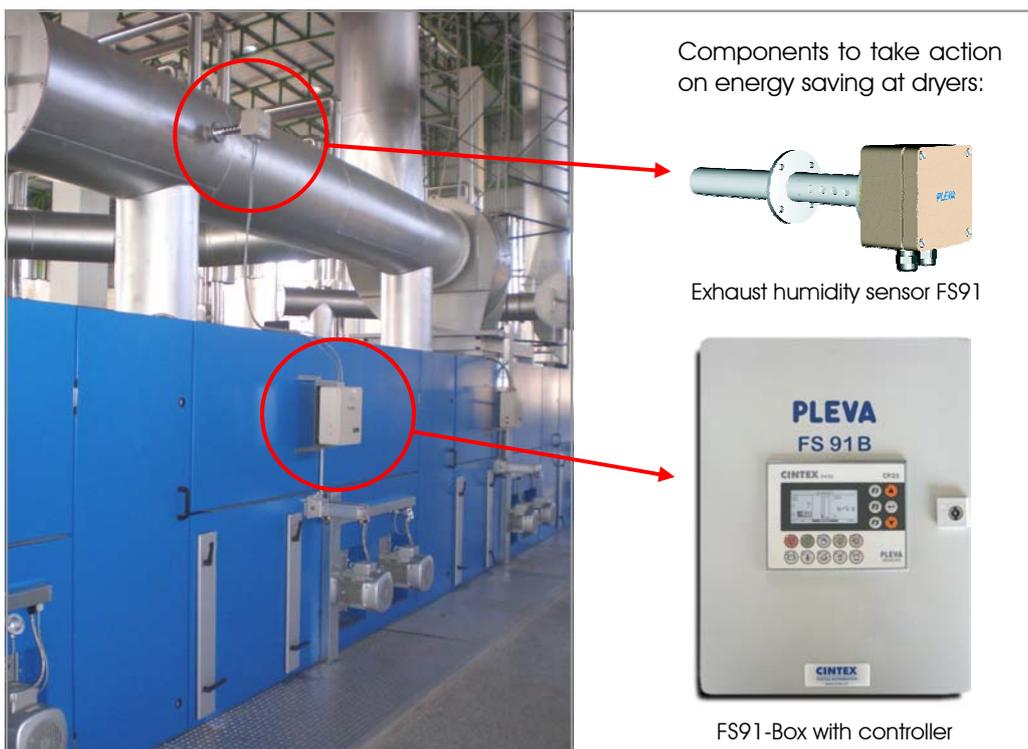
Cost structure of a stenter frame at drying process over a period of 10 years operation

Yes, we can do:

**Energy saving
and
Productivity increase**

Exhaust humidity control on dryer

Measuring and controlling the humidity to load the exhaust air most efficiently with humidity will greatly reduce the hot air volume and save energy dramatically.

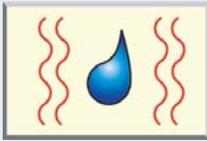


Stenter frame with exhaust humidity control

*For existing and new
dryers*

**Small investment
with great effect in
energy saving**

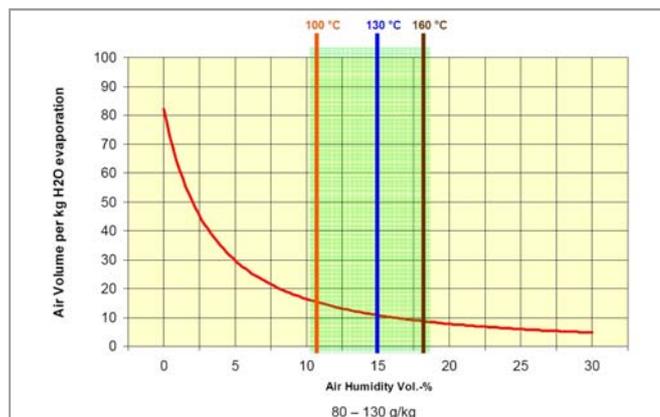
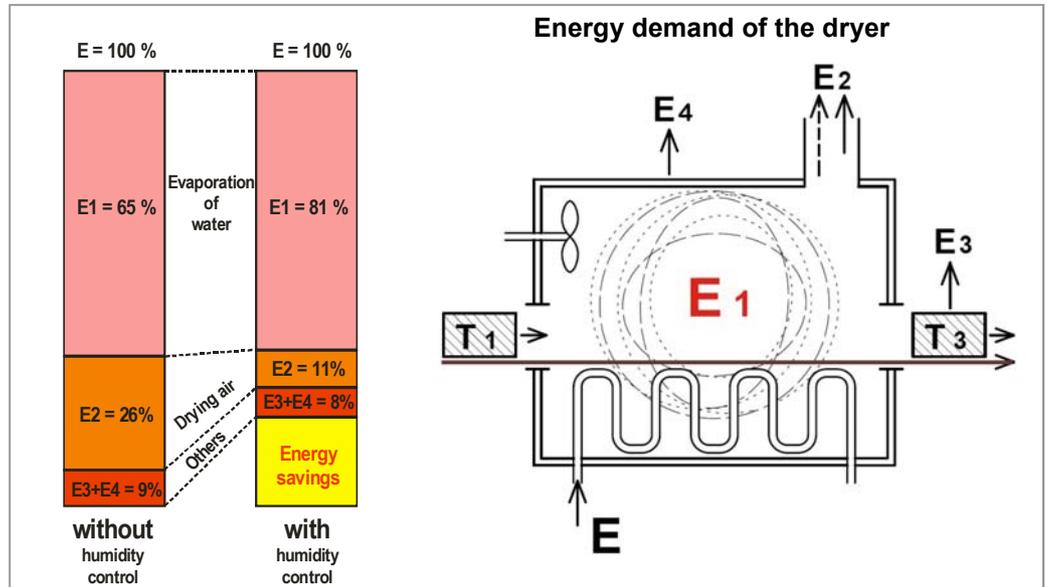
*You may expect
return of investment
< 4 months*



Saving costs of energy by automatic controlled exhaust air humidity

Energy consumption in a dryer

The energy consumption in a dryer is divided in the demand of energy to heat up the fabric and to evaporate the water inside of the fabric. The circulation air (E1) works as an energy transfer medium. A huge part of this hot air is sucked off through the exhaust fan (E2). This part of air will be substituted by fresh air and has to be heated up to the drying set temperature !

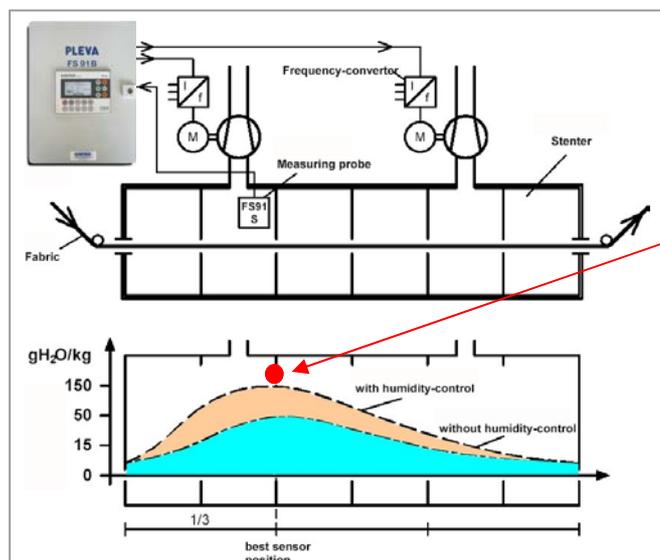


Specific heat capacity of air

The measurement and control of the humidity in the dryer allows to load the air with high humidity to use it as a perfect energy transfer medium.

The most efficient humidity range in the dryer is depending on the drying temperature. This is between 80 to 130 g/kg water per kg air for drying temperature 130°C to 160°C.

Control of exhaust air by frequency inverter



Exhaust humidity sensor FS91



Maintenance free sensor to measure the exhaust air humidity and to control the exhaust fan automatically by frequency inverter.

Take action to control your energy cost and ask for our quotation.

PLEVA Sales and Support in ASIA:



CINTEX AG Glaserstrasse 12
8274 Tägerwilen-Switzerland
E-mail: info@cintex.ch
www.cintex.ch



Headquarter and Manufacturing:
Rudolf-Diesel-Str. 2
D-72186 Empfingen (Germany)
E-mail: info@pleva-controls.de
www.pleva-controls.de