

Industry: Textile
Company: Printing and dyeing factory
Location: Hebei Province, China
Baelz Technology: Controlled steam ejectors Jetomat®

ORIGINAL SITUATION

A 3-row drying stage, each row consisting of 12 drum dryers and controlled by a control valve, with one steam trap after each drum.

Parameters:

P01 = 5.5 bar

P02 = 3 bar

M01 = 200-600 kg/h depending on the material

TECHNICAL ENHANCEMENT

The control valves were replaced with baelz 590 steam ejectors.

Current parameters:

P01 = 5.5 bar

P03 = 1.5 bar

P04 = 2 bar

SAVINGS

According to the end customer, approx. 20% steam is saved.

Monthly steam consumption before retrofit: 2.6 t

Monthly steam consumption after retrofit: 2.2 t

Additionally, the steam traps after each drum are no longer necessary.

ADVANTAGES OF STEAM EJECTOR TECHNOLOGY

Use of a controlled steam ejector instead of a control valve improves the performance of the consumer in the following respects:

- higher average steam velocity in the drum
- thinner condensate layer in the drum makes for uniform heat distribution and better drying quality
- increased production speed
- reduced steam consumption

