

Corrugator, Bursa (Turkey)

32 % steam saving with Jetomat®

Replacing traditional control valves with Baelz 590 steam thermocompressors (Jetomat® TurboHeat®) gave this corrugated cardboard manufacturer about 32 % steam savings, as reported by the customer, eliminated steam traps, improved heat distribution and delivered better drying quality.

32 %**steam saved**

in the dryer section, as reported by the customer

≈80 %**less feed water and chemicals**

as reported by the customer

Higher**production speed**

and better drying quality

01 The plant and the duty

PLANT	Corrugated cardboard manufacturer, Bursa, Turkey
SECTION	The corrugator's drum and plate dryers
EQUIPMENT	Controlled steam ejectors Jetomat® (Baelz 590), TurboHeat®, in place of the traditional control valves

02 Before

Legacy valve-based steam equipment struggled to manage steam and condensate dynamics in the drum and plate dryers. Poor nozzle control and trap-dependent operation led to high steam usage, excess flash steam, and elevated boiler feed-water and chemical consumption.

03 What changed

- The dryer groups were retrofitted with Jetomat® steam jet ejectors: thermo vapour recompressors, also called steam jet compressors or steam jet thermocompressors.
- Each ejector's engineered nozzle-diffuser assembly entrains lower-pressure vapour and recompresses it.
- By drawing out steam condensate and minimising flash-steam pockets, Jetomat® stabilised internal pressures, increased steam velocity and thinned the condensate film in the dryer sections.
- A simpler system: fewer traps, steam-separator points where needed, and condensate and flash-steam recovery as part of a broader heat recovery system.

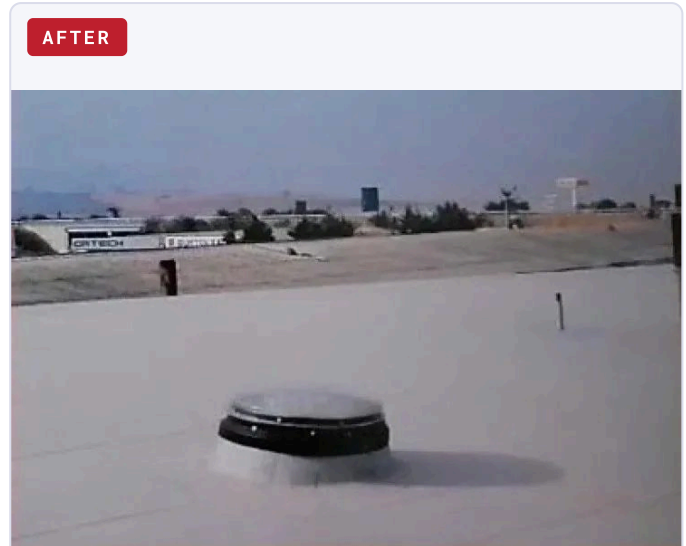
04 Results

- ≈32 % reduction in steam consumption in the dryer section, as reported by the customer.
- ≈80 % lower feed water and chemicals, as reported by the customer, thanks to reduced venting and better condensate handling.
- Steam traps largely eliminated, lowering maintenance and improving reliability.
- Higher production speed and better drying quality.

05 The plant roof, before and after



Before the retrofit: steam venting from the plant roof.



After the retrofit: the same roof vent, with no visible steam.

06 Why it works

High-pressure motive steam expands through a nozzle, entrains secondary vapour (including flash steam) from the dryers, and the mixed flow is recompressed in a diffuser. This raises its pressure and temperature for reuse: a low-maintenance form of energy recycling that turns waste vapour back into productive heating duty.

For corrugators and paper producers, dryer sections dominate the thermal load. Replacing throttling valves with Jetomat steam jet ejectors delivers measurable energy savings, steadier temperatures and simpler operation. Fewer failure points, better steam and condensate control, and integrated heat recovery translate directly into lower OPEX and a smaller environmental footprint.

If your dryer section still relies on conventional valve control and traps, a Jetomat thermocompressor offers a proven upgrade path: less steam in, more uniform drying out. It turns previously wasted flash steam into reliable process heat.

Installation photos: Baelz



Spend once. Use twice.

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