

Forecast for the future: Costs of energy will rise – So, do not waste energy! Use it again with the TDO Heat Recovery System

It is in the news every other day. Energy prices escalated in the past, e.g. the price of crude oil increased from 15 EUR/barrel in 1992 to over 50 EUR/barrel in June 2007 - and it will rise in the future as well. However, efficient use of energy has only seldom appeared on the agenda as long as a factory or product line was profitable. On the other hand, in today's business climate, maximizing energy use and minimizing pollution are more important than ever. Fortunately, a careful approach to energy not only adds profits to the bottom line - it also draws positive attention to the environmentally friendly policies of today's best businesses.

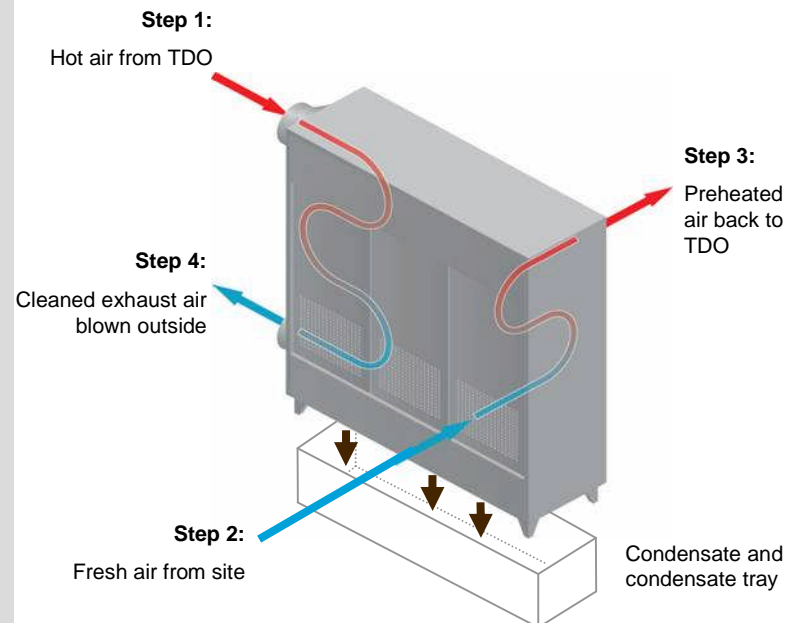
Therefore Brückner is developing Energy Saving Solutions and Energy Management Systems for all new and existing lines.



To achieve the first important improvement Brückner selected the **ENERGY CONSUMER NO. 1 – the TDO OVEN HEATING SYSTEM** – and established an

- energy saving system, which can be
- installed easily,
- improves the condensate problem in the TDO oven and represents an
- investment, which quickly pays back its money for you - the customers.

TDO Heat Recovery System



Further information at:
 Brückner Servtec GmbH
 Königsberger Str. 5-7
 83313 Siegsdorf
 Germany
 Phone +49 86 62 63-252
 E-mail servtec@brueckner.com

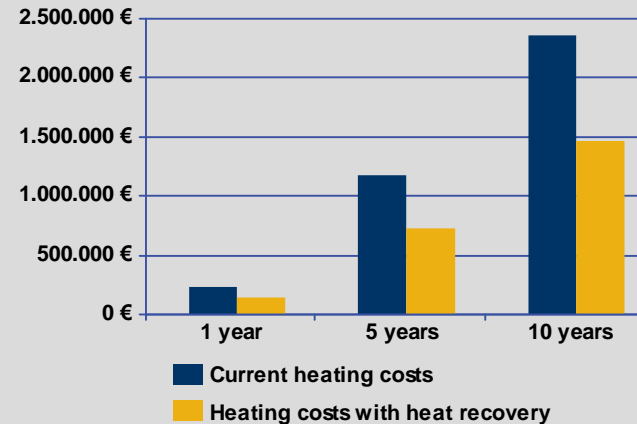


Advantages

- Reduced energy consumption by returning existing heat energy
 - Up to 40% of TDO oven heating!
 - Cut costs for energy!
- Improvement of film quality by bringing back preheated fresh air
 - Less temperature differences in TDO!
- Less emission to the environment by absorbing pollution
 - Controlled condensation in the Heat Recovery System!
- Improvement of condensate problems in the TDO by adjusting the amount of fresh and exhaust air
 - Balancing the oven system!
- Improvement of film quality by controlled absorption of condensate
 - Less maintenance of the TDO

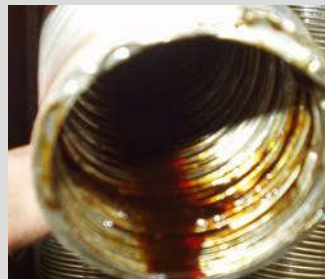
Energy cost comparison of TDO oven heating

- based on a 8,2m BOPP line



Return on Investment

Payback period is 1-2 years, depending on local energy prices



Condensate-hoses



Condensate-tray

Equipment

- Stand alone unit
- Exchangeable condensate cartridges
- Exchangeable condensate trays
- Frequency controller for the fans
- Flow meters for exhaust and fresh air
- Filter system
- Temperature sensors

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