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Koenig&Bauer MetalPrint

Retrofit thermal incinerators EcoTNV and HighEcon

A clean sweep!



we're on it.

Retrofit thermal incinerators EcoTNV and HighEcon – A clean sweep!

At Koenig&Bauer, we are working continuously on innovations to further improve your printing and coating lines. With our upgrades you stay up-to-date with the latest technological developments. In that way you continue to decorate metal sheets to the highest standards.

The thermal drying of coated metal sheets requires a high level of energy input in order to generate the necessary amount of heat. Through drying the applied coatings a large amount of solvent is released into the exhaust air. Subsequently the contaminated air needs to be purified by applying suitable methods of exhaust air treatment.

The thermal incinerator systems EcoTNV and HighEcon have been exclusively developed by Koenig&Bauer MetalPrint. The unique concept is second to none in the industry. EcoTNV and HighEcon fully remove organic compounds from the exhaust air and transform these almost residue-free into the non-hazardous substances water and carbon dioxide. At the same time operating cost can be drastically reduced by heat and energy recovery.

The integrated Eco TNV and the integrated HighEcon systems both reliably purify the solventladen exhaust air of coating lines and at the same time deliver the necessary energy to operate the drying oven. The unique concept of EcoTNV and HighEcon results in significant reduction of gas consumption due to its controlled, flexible highperformance main heat exchanger. On top of this, additional energy is recovered through the fresh-air heat exchanger. In that way the gas consumption of a sheet drying oven can be reduced by up to 30%.

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The integrated HighEcon system is especially developed for high performance coating lines. The maximum energy savings are reached when running a solvent load of 50 kg/h or more. During ongoing production as well as during make-readies or stand-by the supplied amount of fresh-air is flexibly controlled in accordance with the effective solvent load. In consequence, only the actually required air flow needs to be heated. This special concept of air volume control guarantees maximum heat recovery. The energy efficiency of the unique HighEcon concept is unbeatable.

It is now the right time to retrofit your existing coating line with EcoTNV or HighEcon

- minimising solvent and CO₂ emissions
- reduction of energy and operating cost
- attractive return-on-investment
- Iow maintenance
- Iong service life
- easy operation

MetalCoat 483

Our recommendation

Simply contact our experts to determine the potential savings of your coating line based on your individual production parameters.

Tab1 Exemplary calculation gas consumption; sheet drying oven without air purification = 100 %

For the integrated EcoTNV system the supplied amount of fresh-air is permanently set in accordance with the maximum amount of solvent released into the exhaust air. The flexible high-performance heat exchanger is fully self-regulated in line with the respective production situation. In this way a significant reduction in gas consumption is ensured - even compared to drying ovens without air purification.



- 1 Exhaust air inlet 2 Tubular heat exchanger **3** KXB-burner
- **4** Combustion chamber
- **5** Internal bypass
- 6 Insulation
- Purified air outlet

Koenig & Bauer Metal Print GmbH

Wernerstr. 119-129 70435 Stuttgart, Germany

T +49 711 69971-300 F +49 711 69971-185 service-metalprint@koenig-bauer.com

metalprint.koenig-bauer.com

We would be pleased to send you an individual offer quoting an attractive price

For further information, please contact the service department at Koenig & Bauer MetalPrint by mail to: service-metalprint@koenig-bauer.com or by phone on: 0711 69971-300.

Errors and omissions excepted.

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