



NEWS

**airprotech** srl  
air protection technology

*Aerosols Cans and Collapsible tube*



# aerosol cans and collapsible tubes solutions to environment

The control of air emissions is nowadays an important issue that aluminum packaging producers are considering when making production and in case of changing or upgrading their equipment.

**airprotech**, leading company in manufacturing complete environmental systems for cleaning the air, is in position to share with the clients the know-how and experiences for serving better the customers finding the best solution for the pollution preventing.



In the aluminum solid packaging we can find old generation plants and new complete lines from lacquering to lithography, with different response in terms of airflow and pollutants contents in the exhaust. Basically the process of manufacturing alupackaging involves the extrusion of aluminium slug and further mechanics operation, then internally sprayed and finally coated externally with basecoats and off-set lithographic inks. The next few slides will show you the best available technology for solving your VOC problem and how **airprotech** can answer you in terms of investment and running cost.

# the airprotech's answer

In the aluminum cans and tubes can be supplied the following technologies:



Regenerative thermal oxidiser – **RTO**

*The technology consists in a thermal oxidation of the VOC coming from all air streams of the printing lines, in a combustion chamber at 800°C, duly equipped by a burner fed by gas. Three different canesters will operate as pre-heaters of the air stream before reaching the combustion chamber*



Rotor concentrator and thermal oxidiser  
**RC & RTO**

*The technology consists in the purification of the process air which has high flow rate and low VOC contents, by means of zeolite adsorbers. The desorption of the VOC from zeolites and the following regeneration is made by using only 10% of the process air but reaching 10 times more the VOC contents. This is the stream we are going to oxidise by means of RTO*

# the RTO airprotech's design

**Ceramic type used**

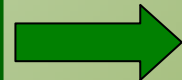


**Structured:** high specific surface, low pressure drops, bed compactness, Resistance to dirtiness, Thermal Shock



**HEAT RECOVERY EFFICIENCY > 96 %**

**Poppet valves**



**High resistance:** Own design duly developed for continuous loads, Strong mechanism, Double acting actuators with solenoid valves, Automatic lubricating

**gi-tech**



**Energy saving:** Max  $\Delta T$  of 40°C between inlet gas/outlet fumes, instead of >60 °C as the common systems available in the market, Self-sustaining : from [VOC] > 1,5 g/Nm<sup>3</sup>, Saving Natural gas/LPG and electrical costs up to a global 30%,

Suitable for: Lacquers for the internal protection of monobloc aerosols cans and aluminium collapsible tubes **based on epoxy, phenol and amine resins** , basecoat for external both **polyester and polyurethane**



Viale Lombardia 33, 20013 MAGENTA (Milan – ITALY)  
Tel. +39 029790466/364 – Fax. +39 0297297483

email: [info@airprotech.eu](mailto:info@airprotech.eu)  
<http://www.airprotech.eu>