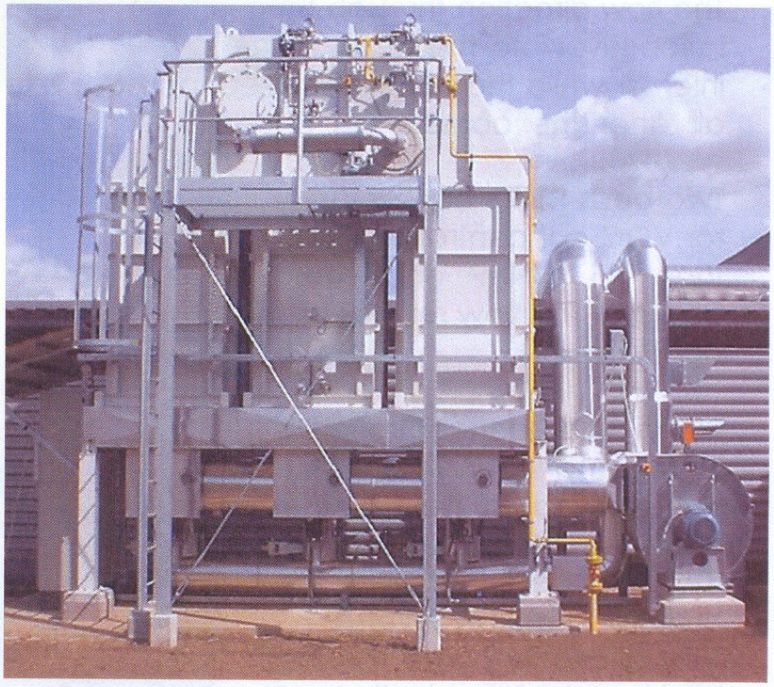
Proprietory Technology

DYNACYCLE RTO

(*) Technology developed by and acquired from **MONSANTO**

Applications

- Polymer and resins manufacture
- Organic chemical production
- Petroleum refining
- Plastics processors
- Rubber chemicals production
- Paint and painting systems
- Printing and publishing
- Tape manufacturer, fabric coating
- Wood furniture manufacture, finishing lacquering
- Solvent cleaning processes
- Many more....



Benefits

- Relative low capital cost
- Moderate operating cost if VOC concentration is above 1.5 g/Nm3
- No risk of poisoning
- Compact design
- Durable and flexible

How it works

The VOC's are oxidized to CO_2 and water in a combustion chamber at temperature as high as 820°C. High heat recovery rate is reached thanks to the use of ceramic packing, configured in two beds at least, which are alternatively operated to absorb and restitute the heat. A burner system is setting the air at the necessary value in order to achieve very high VOC removal efficiency.

The flow direction through the beds is changed as a function of heat accumulation level into the beds: the inlet bed (first bed) is restituting the heat to the inlet air while the outlet bed (second bed) is recovering heat from the heated air after the combustion cham-

Two beds RTO's can be used for VOC concentration lower than 1.5 g/Nm^3 and when peaks at the flow reverse are admitted.

When VOC concentration is higher and when this peak is not allowed, a third bed is used. In this configuration, the third bed becomes the outlet bed at flow reverse. That allows to purge the first bed in order to make it clean

Among the references worldwide we can count the following clients: DCM (Belgium), Siemens (Austria), Bayer (Italy), GE Plastics (USA), Ford (USA), Philips (USA),...