



CSM

Worldwide

CSM Worldwide's System

Installation in County Cork

Preserves Clean Air for Ireland

Kodak Cork, Ireland's prominent manufacturer of WRITABLECD compact disks, has selected CSM Worldwide to design and manufacture air pollution control and VOC abatement systems for its CD-R manufacturing facility in Youghal, County Cork.

CSM's custom catalytic oxidation system, destroys VOC and solvents including halogens from plant exhaust at very high levels of efficiency. This is a first of a kind application in Ireland using CSM's proven halo-hydrocarbon



Continuous Emissions Monitoring System (CEMS) measures data reported on-line per Irish EPA Requirement

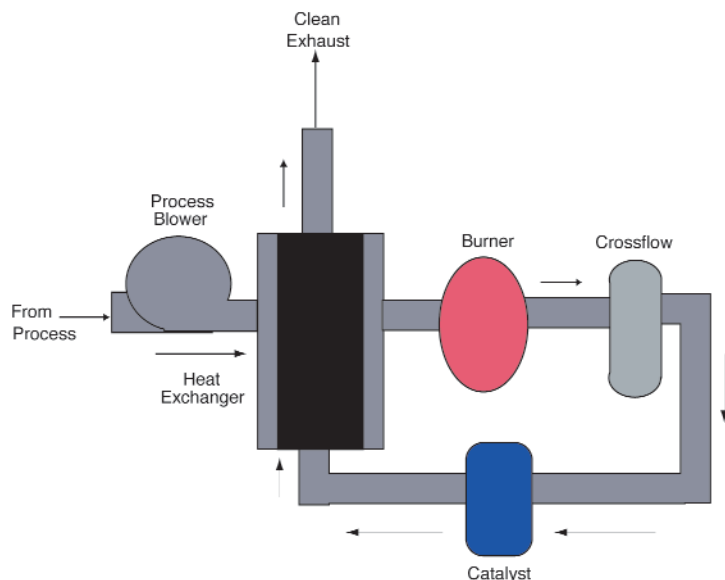


CSM Oxidation Systems assures Kodak-Cork's compliance with Irish EPA Regulations.

destruction catalyst. Kodak Cork and CSM cooperated with the Irish EPA to define the air pollution control system that best fits this new application including system design and control, catalyst performance, VOC capture and emission monitoring issues.

Kodak Cork has demonstrated its commitment to air purity through its continued concern and respect for the local environment of this beautiful, scenic seaside location. During the manufacture
(Continued on Page 2)

CSM Worldwide, Inc. provides energy recovery equipment, systems and services to industry. Expert in the cost effective abatement of VOC, CO, and NOx from industrial exhaust streams, CSM is acknowledged as the baking industry's leader in air pollution control systems and waste heat recovery.



Process Flow Diagram - CSM Catalytic Oxidizer for Kodak, Cork, Ireland

of WRITABLECD's, airborne solvents are captured, and immediately directed to the CSM Catalytic Oxidation System where they are destroyed via oxidation across CSM's uniquely formulated catalyst. Even halogens, when present, are oxidized by the specialty catalyst.

CSM Worldwide provides air pollution control systems including oxidation systems, to companies located throughout the globe. Many CSM systems are now in operation throughout Europe including Ireland, the United Kingdom, The Netherlands, Germany, Italy and Portugal.

Ireland's recent and substantial economic growth results in many new and expanded manufacturing plants with a broad variety of products including pharmaceuticals, specialty chemicals, semiconductor chips, cosmetics and health products. Ireland's strong commitment to clean air results in a need for continuous, efficient and economical air pollution control solutions of the type CSM Worldwide is known to supply.

Ireland has provided CSM an opportunity for the successful application of these technologies. CSM's reputation for quality, reliability and support

is only equaled by its reputation for Economical Solutions, saving money at every turn!

VOC & Solvent Recovery:

- Carbon Adsorption Systems combined with decanting or distillation
- Non-carbon Adsorption System using adsorbents such as zeolite
- Condensing Systems including closed loop inert gas systems

VOC Destruction:

- Catalytic Oxidation Systems (Cat-Ox) with heat recovery
- Oxidation Systems for destruction of chlorinated compounds
- Regenerative Thermal and Catalytic Oxidizers (RTO & RCO)
- Wet Scrubbers for removal of VOCs and acid gases
- VOC Concentrator Systems for economical treatment of large air flows

NOx Abatement:

- Selective Catalytic Reduction (SCR) of NOx using specialty catalysts

