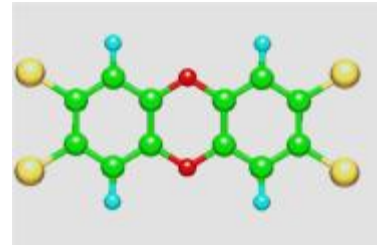


Dioxins | Furans

By burning of compounds containing chlorine, highly toxic dioxins and furans can occur if incompletely combusted organic materials are present in the flue gas. Steuler Anlagenbau supplies the appropriate plants for the respective application operating on either thermal or catalytic combustion principle to eliminate dioxins and furans without residue.



When using catalytic dioxin/furan combustion, the plant can be installed selectively or in combination with a SCR catalyst linked with a catalytic NO_x reduction plant. This uses systems that are optimised to minimise investment and operating costs. Thermal dioxin/furan combustion systems are preferentially used where catalyst poisons may be present in the exhaust gas.

Depending on the on-site situation and operating conditions, Steuler Anlagenbau offers systems based on the dry adsorption of dioxins/furans in addition to thermal and catalytic processes. These use activated charcoal, lignite coke or zeolites as the adsorption medium together with fabric filters. This method is often used where other pollutants besides dioxins/furans, such as particulates, heavy metals, SO_x, HCl and/or HF, have to be removed from the exhaust gases too. This process can even be used to retrofit existing filter units.

Steuler Anlagenbau draws on its extensive experience in developing, planning, manufacturing, installing, commissioning and after sales service to offer its customers the best flue gas purification plant for the respective application – either as a turnkey system or individual process stages.