Catalytic incineration unit (CI) to remove organic components (mainly Acetaldehyde) contained in an exhaust gas. The gas flow must be conveyed into the catalytic system (customer) and by using an integrated blower mixed with approx. 50 % clean air. A gas burner is provided just to start up the catalytic unit until the necessary temperature for the catalytic reaction (approx. 250 °C). After that the burner is switched off and the CI unit is running autothermal. The gas flow goes into the catalytic chamber where the organic components will be converted in CO2 and H2O.

A gas/gas heat exchanger allows the recovery of energy which can be used to pre-heat the exhaust gas. In case of an error the system contains a bypass that opens to atmosphere.

Below you will see a unit example: