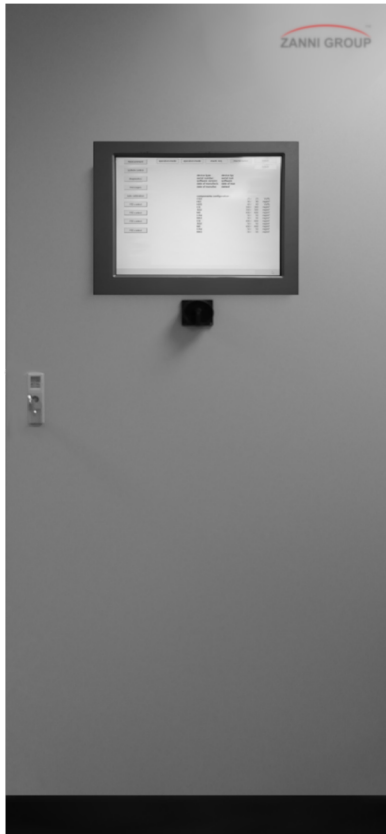


# Continuous emission monitoring systems (CEMS)

For household, hazardous, industrial, clinical and contaminated waste combustion systems



CEMS are used as a tool to monitor flue gas for oxygen, carbon monoxide and carbon dioxide to provide information for combustion control in industrial settings.

They are currently used as a means to comply with air emission standards.

Facilities employ the use of CEMS to continuously collect, record and report the required emissions data.

Envisaged analyses could be for example:

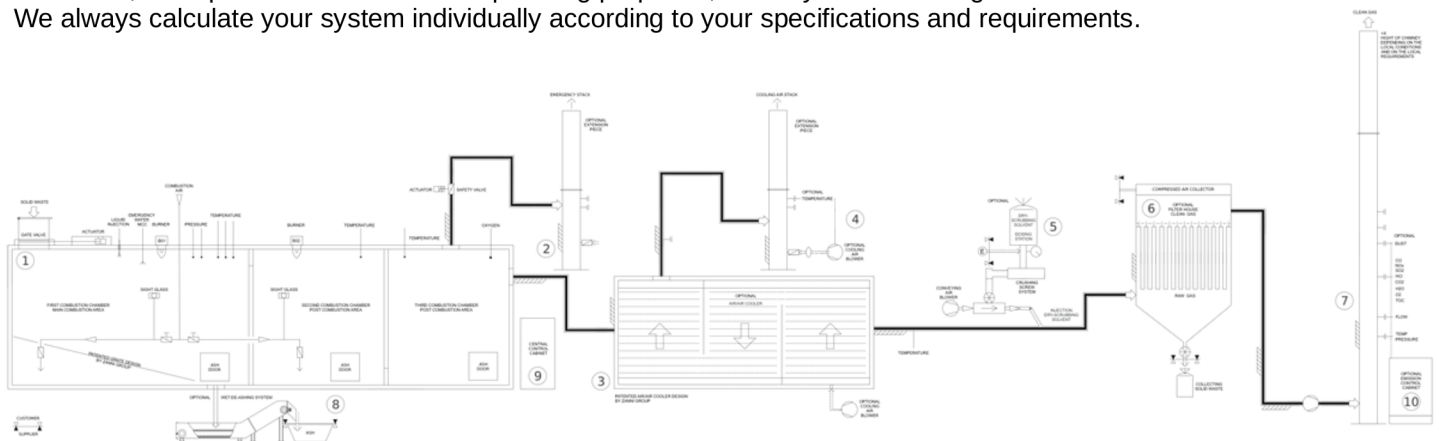
- HCl (hydrogen chloride),
- Cl<sub>2</sub> (chlorine),
- NO<sub>x</sub> (nitrogen oxides),
- SO<sub>x</sub> (sulfur oxide),
- CO (carbon monoxide),
- TOC (total organic carbon).

The standard CEM system consists ordinary of;

- a sample probe,
- a filter,
- a sample line,
- a gas conditioning system,
- of course a calibration gas system,
- and at least a series of gas analyzers for monitoring of the required parameters.

In monitoring the emissions, the system must be in continuous operation and must be able to sample, analyze and record data at least every 15 minutes and then averaged hourly. That means the operation frequency can be either continuous operation or activation at a predefined frequency or upon demand.

Please note that each system requires an individual configuration. Therefore, examples cannot be used for planning purposes, but only serve as rough information. We always calculate your system individually according to your specifications and requirements.



To protect the environment and to avoid unnecessary transports we would like to point out our license option.

Let's talk about it.

Thank you.

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