

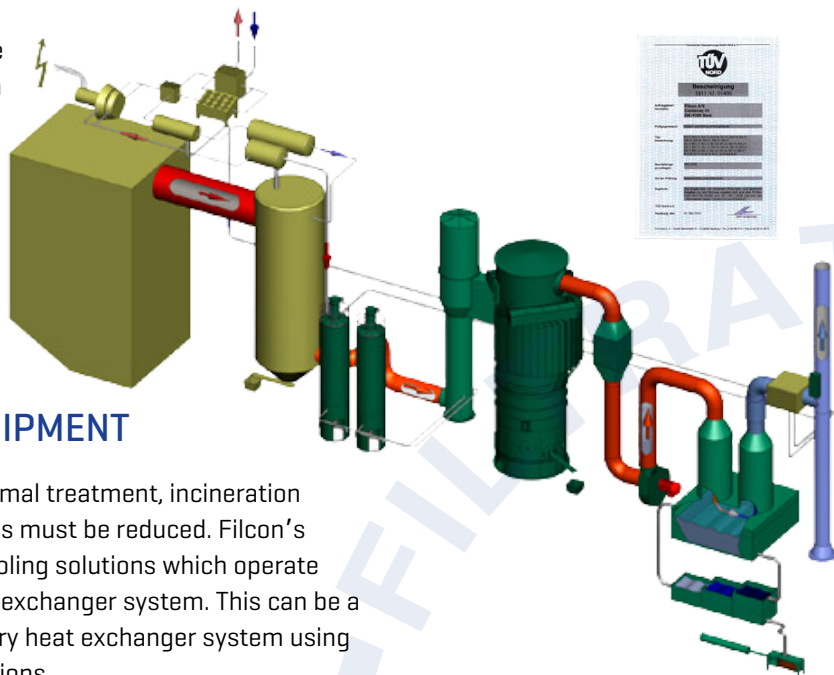
HOT FLUE GAS CLEANING

Filcon Filtration ApS
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1. Silo for Activated carbon and Bicarbonate/lime
2. Reactor inclusive quench and injection system
3. Baghouse filter system
4. HEPA filter
5. Wet scrubber
6. Continuous emission measuring equipment



FLUE GAS HEAT EXCHANGE EQUIPMENT

In order to clean hot flue gas generated by thermal treatment, incineration and gasification, the temperature of the flue gas must be reduced. Filcon's engineering team can recommend different cooling solutions which operate by allowing the flue gas to pass through a heat exchanger system. This can be a wet solution using quenching equipment or a dry heat exchanger system using air to water (boiler) or air to air exchanger solutions.

Filcon will recommend the most optimal design based upon the actual project, product and emission requirements as well as customer preferences. And the complete turnkey solution will be implemented when delivering the equipment from Filcon.

HOT FLUE GAS CLEANING EQUIPMENT

To help keep our environment clean, Filcon specializes in the treatment of hot flue gas. Hot flue gas can be generated from biomass, gasification, and/or incinerator plants, and might contain high concentrations of chemical particles which are harmful for humans and the environment.

Filcon flue gas treatment solutions are always customized to meet customer requirements and designed to deal with the actual flue gas composition of pollutants at each specific plant.

Based on each individual case, our engineering team calculates and designs the relevant equipment. The air cleaning solution will either be based on a baghouse filter or it will be a complete clean air system consisting of a baghouse, HEPA, and wet scrubber solution.

Filter plant solutions shall meet today's emission standards which require injection systems for sorbents such as activated carbon, lime and/or bicarbonate. Our engineering team will determine the best solution for each specific situation.

OVERVIEW



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OVERVIEW

Filcon's engineering team also has many years of experience in cleaning the flue gas and hazardous contaminated air generated by waste treatment plants and nuclear power plants. We have excellent references from many plants worldwide.

In addition to designing hardware solutions, our engineering team also designs and commissions the software programs to ensure that operations fulfill the emission requirements.

FEATURES

Special features of Filcon Filtration hot flue gas cleaning equipment include among others:

- 270° cyclone inlet - to ensure optimal flow in the filter
- Good insulation - to neutralize cold spots and corrosion
- Flat bottom, no hopper - to ensure the absolute optimal fly ash removal
- Intelligent cleaning system - software controlled bag cleaning based on actual process conditions
- Round support structure - self supporting robust construction
- Controlled dosing of lime/PAC - based on the actual chemical composition of the flue gas
- Low maintenance costs - due to few movable parts and optimal flow conditions
- Low chemical consumptions - due to the computer-controlled process dosing system

Examples of special industrial solutions:

Diesel Engine Power Plant - exhaust cleaning equipment

Based on our longstanding operation of a pilot plant, the Filcon engineering team has developed the first filter equipment in the world which is capable of cleaning the exhaust gas generated from diesel engines in power plants. The process removes for example sulfur, dust and dioxin from the exhaust gas.

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