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СИСТЕМЫ КОНТРОЛЯ ВЫБРОСОВ BISCAT

Технические характеристики



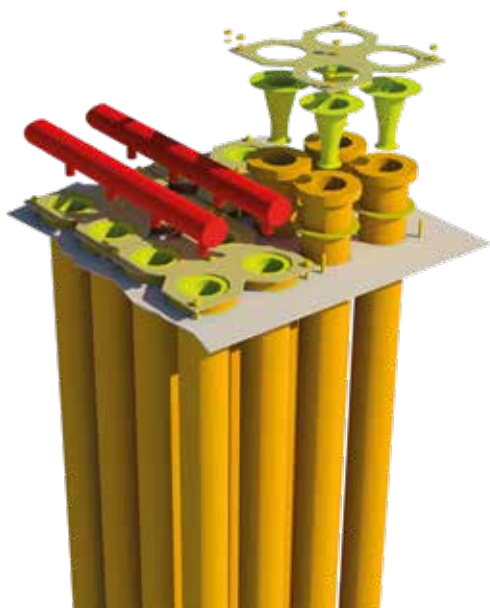
Discover the benefits of ceramic candle filters

GEA high temperature filters with ceramic elements remove particulates and are now available as BisCat ceramic filters with an embedded catalyst matrix allowing removal of NO_x, dioxins, mercury and VOC. The filter elements are chemically inert and corrosion-resistant.

Emission control advantages

Ceramic filter elements show very low dust emissions < 2 mg/Nm³ and are thermally stable up to high operating temperatures. No cooling of flue gases is required and no thermal heat energy is wasted.

Filter elements are cleaned online during operation by means of separate, compressed air jet pulses. The filter elements are placed in a single or multi-compartment housing to handle large volumetric flow rates. This construction technique allows for maintenance of a single module while others continue to operate, without interruption of the process itself.



The injection of lime-based reagents allows for control of inorganic gaseous emissions like HF, HCl, SO_x. The rigid candle structure enables surface filtration and forms a first layer of reactive dust for absorption processes.

BisCat ceramic catalyst filters

In addition to treating particulate and acid gases, the BisCat ceramic catalyst filters is enriched with a catalyst providing effective NO_x removal by using upfront ammonia injection and replace a conventional selective catalyst reactor (SCR).

The BisCat filter solution is combining three process steps in one unit for advanced emission control:

- Dedusting
- Removal of acid components
- Reducing THC and NO_x

CERAMIC FILTERS

- Low dust emissions
- High operating temperatures
- Excellent gas permeability
- Lightweight construction
- Long service lifetime

BISCAT

- Effective NO_x removal
- Low differential pressure
- Single emission control unit
- Multi-pollutant performance

APPLICATIONS

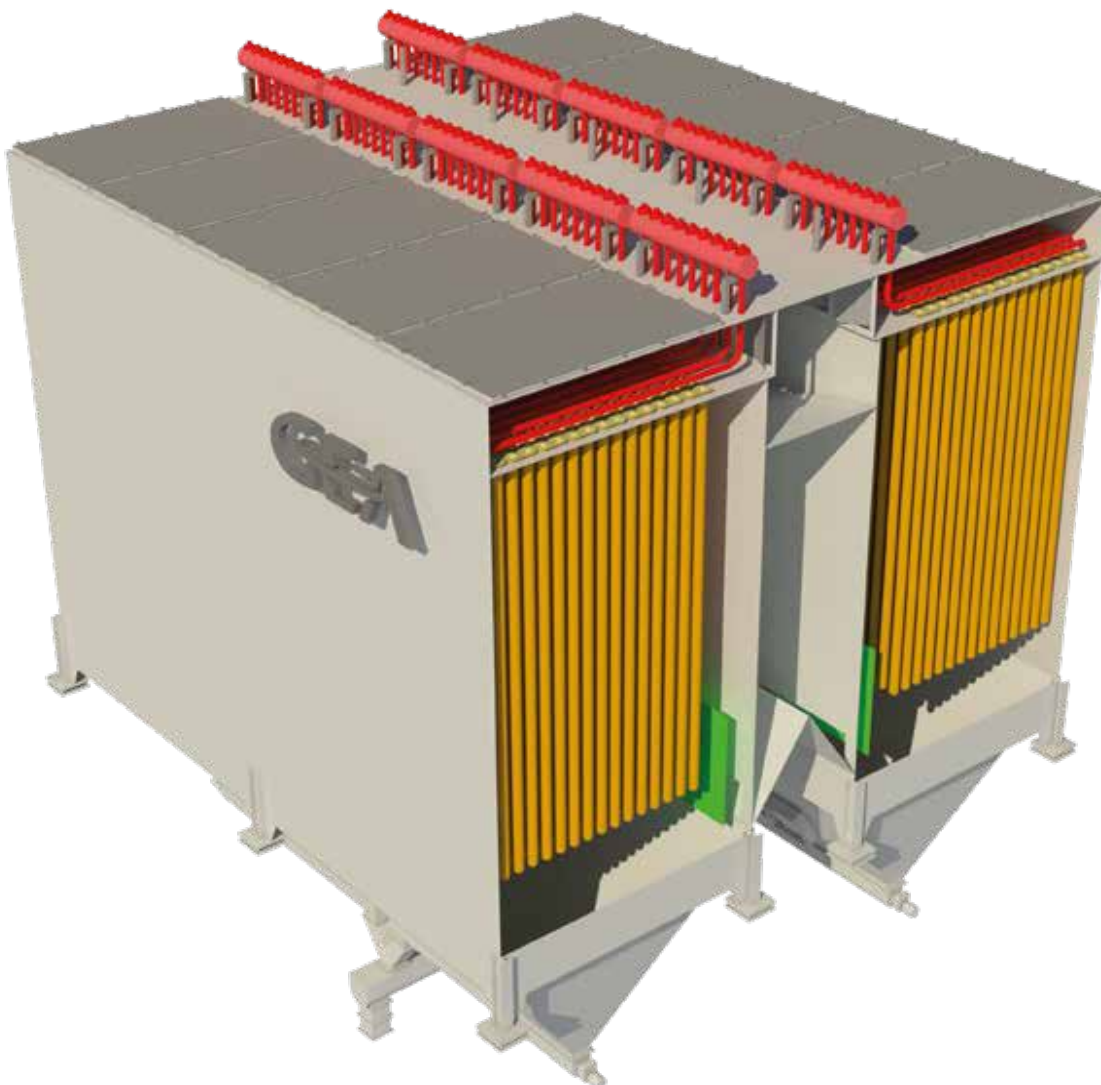
- Glass furnaces
- Cement kilns and coolers
- Incinerators
- Refineries
- Roasters

Special features of ceramic candle filters with pulse jet technology

- Low differential pressure
- Dust monitoring system (Broken Bag Detector) allows for safe operation with almost zero dust emission
- Low a/c ratio allows n-1 operation for longer periods
- Baffle plates protect candles from direct gas flow intake in raw gas compartment
- Clean gas dampers are designed for low differential pressure
- Candle installation period is short, due to easy and fast candle piece assembly
- Penthouse equipped with lifting devices to handle candles and clean gas compartment covers

The special GEA design allows for candle length of up to six meters. A downholder plate holds four candles in place to a common tubesheet. The intake nozzle protects candles from excessive abrasion by means of compressed air and the sealing between candle and head plate prevents from bypass gas.

Standard reverse pulse jet methods, commonly used in fabric filter baghouses, are used for ceramic filter cleaning. A pulse of compressed air is sent down in the center of the filter elements and cleans the accumulated dust from the outer surface of the tubes. The particulate falls into a lower hopper and is removed through an airlock device. Filters are cleaned on-line, with no need to isolate individual housings or sections.



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