

FILCON A/S

BAG FILTER

SUNFLOWER HUSK BOILER



Bag Filter

Sunflower Husk Boiler

Filcon Flue Gas Cleaning Systems:

To help keep the environment clean, Filcon specializes in the treatment of Flue Gas, which can be generated from Biomass, gasification and/or incineration.

Filcon Flue Gas systems are always customized to meet the customer requirements and designed to deal their special application.

Based on each individual case our Engineering team will determine the best solution for the Client.

Bag Filters for Biomass, has been one of our main targets from foundation of the company, due to many years of experience from our Engineers and we have many excellent references from plants worldwide.



Test facility:

Due to special conditions, Filcon has developed a test facility (40 feet container) which easily can be forwarded to Clients, for a test on their Plant / application. The test facility contains a complete Flue Gas Treatment system, including injection system for additive, should this be necessary.



Introduction – Flue Gas Cleaning from Sunflower Husk:

JSC EFKO in Alexeevka (Russia) is a plant for the production of refined and unrefined sunflower oils and mayonnaises.

The Surplus product from the production (Sunflower Husk) is incinerated in 4 boilers with a capacity 12-14 tons per hour. Each boiler produces 16 tons of steam per hour, which is used in the Oil production process.

Purpose:

Due to reduction of emissions and improvement of the environmental situation in the city and EFKO's policy to maintain their reputation as an environmental responsible Company contributes to a clean Environment for the Future. JSC EFKO and Filcon A/S signed a contract for 4 Flue Gas Cleaning systems, July 2012 to be put into operation, by the end of the Year, which demanded a close cooperation between the companies.



The project:

As the size of the Filcon Filter module for this application, made it difficult / expensive to transport, it's was agreed that EFKO manufactured the filter casing / platforms / Ducts / etc. according to Filcon's specifications and Supervision, during the complete project. All steel constructions and erection was done by a local company in Alexeyevka.

The filter casing and steel constructions has been delivered at site in separate sections and welded together during the erection period. All process equipment, pipes, bags, etc. was installed and erected by crane.

Subsequently electrical wiring and thermal insulation has been done. In order not to interfere with the daily operation the connection to the stack and installing of software was performed as the final job before switching over to a clean operation.



Result:

Due to close cooperation, between EFKO, Filcon and all sub-suppliers, the Bag filter of the first Boiler was in operation only 4 month after contract signing. By the end of 2012 all 4 system were in operation, keeping the dust emission below the guaranteed 10 mg/Nm³.



Before start up – Filcon Bag Filter system



4 Boiler's in Full operation

Executive Director – Mr. Oleg Artischev.

Although the time schedule for the project has been very tight, Executive Director Oleg Artischev expresses that he is very satisfied with the result of the complete project, which fully lives up to the high expectations and emission demands, required by the Russian Federation and EFKO GOK.



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