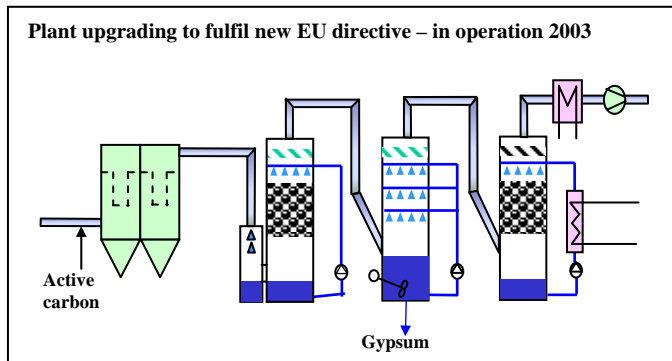
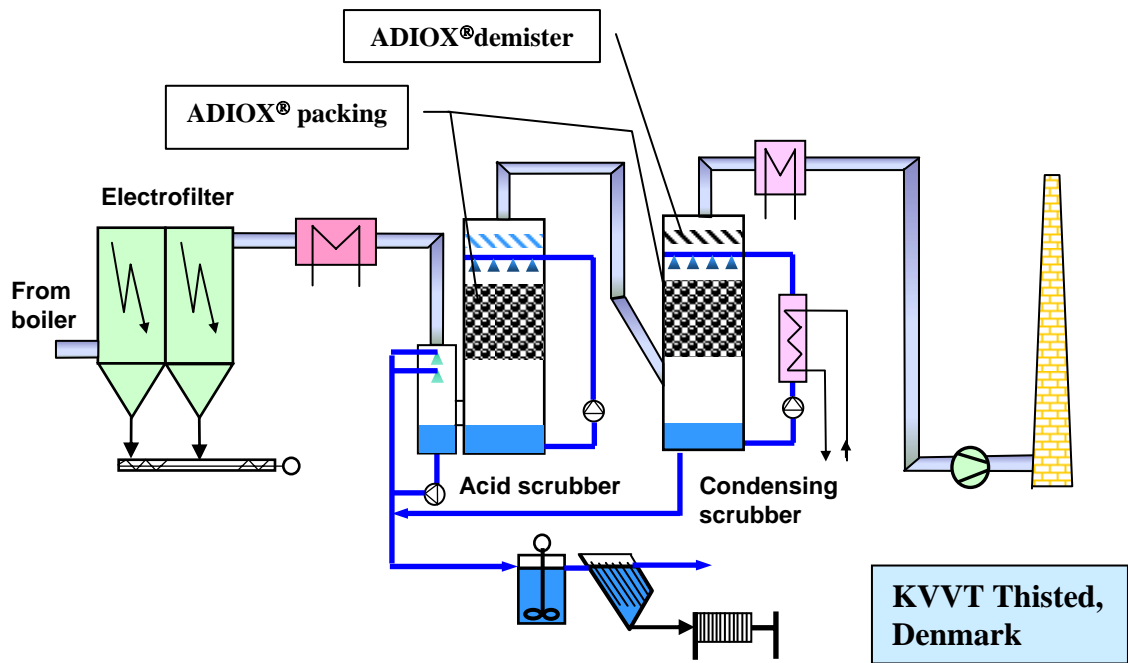


Dioxin removal by **ADIOX[®]**

**Municipal waste incineration plant -
KVVT Thisted, Denmark**





General aims:

The first ADIOX® full-scale test. Also, to obtain an initial reduction of dioxin emissions by reasonably simple means. After upgrading the plant to meet the 0.1 ng/Nm³ dioxin emission limit, the aim is to minimise the memory effect (desorption of dioxin).

Description:

In September 2001, the very first ADIOX®-installation in a flue gas cleaning system was made at KVV T Thisted in Denmark.

A wet type flue gas cleaning system had been installed by Götaverken Miljö in 1992. The 2002/2003 upgrade, to fulfil the latest EU emissions directive, was also designed by Götaverken Miljö.

The Thisted plant incinerates some 6.5 tons per hour and produces some 110GWh of heat and 21GWh of electricity annually.

Initially, the plant operations, with ADIOX® installed, had reasonably high dioxin inlet concentrations (5-10 ng/Nm³). The performance during plant start-up (low gas flow) showed extremely good results. During the ongoing full-load operation period of over a year, the dioxin reduction level remained at approximately 70%.

Following installation of the new bag house filter, the dioxin concentration into the scrubber system is well below 0.1 ng/Nm³. The aim of the ADIOX® packing is to absorb the dioxin that was previously desorbed by the plastic material in the system - the memory effect.



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