

CASE STUDY

Food Processing

ODOUR CONTROL SYSTEM AT FOOD PRODUCTION FACILITY

ISSUE

Exeon were asked to look at an odour control issue at a large food processing facility in South West England.

The brief was to provide a solution to reduce cooking extraction odour levels to an acceptable level, particularly garlic odours which are highly penetrative.

The current extraction systems, which include fan and ductwork systems were discharging the cooking extract straight out through the roof, which was leading to ongoing complaints from neighbours in the neighbourhood.

Although ozone odour treatment units were already installed, these had not been effective in reducing measured odour levels in the extracts.

SOLUTION

Exeon recommended that an Activated Carbon Deep Bed Adsorber (Nodour Hi-flo) unit was installed on each of the two extract systems. These had a 2-stage prefilter to protect the carbon from cooking greases and smoke particulate, and carbon beds providing a high contact time.

This provided an optimum combination of odour removal and life of carbon, and also a system which is easy and practical to maintain.

It also needed to be located in the roof void for aesthetic reasons, which was a challenge, although not an impossibility for our installation department.

Exeon demonstrated a practical example of how the carbon system worked, to the neighbourhood, who had concerns and this helped them understand the measures the facility needed to take (and were taking) to remove the odours.

This was done with an on-site demonstration of the activated carbon principle using our demonstrator rig and garlic spray. The demonstration was very effective and created a good deal of interest from those attending, including members of the local community, the local Environmental Officer, and even the local MP!

The system met the design criteria, and the system was very effective and helped restore good relations with the local community, and in the words of the site chief engineer "we can't smell a thing now!" removed the complaints from the local neighbourhood.

PROJECT VALUE

£280,000

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