

JIMCO[®]

UV-C & OZONE
Technology

KPC

KITCHEN POLLUTION CONTROL



JIMCO KPC verified by ETV

KPC SOLUTIONS



INNOVATION AND DRIVE

Jimco A/S is the company behind some of the world's most unique air and waste-water purification and sterilisation solutions.

Since designing its very first air-cleaning unit in 1993, Jimco A/S has not looked back. Today, the company supplies its products to a large number of industries and institutions worldwide. Its customer base comprising factories within the food industry, commercial kitchens, schools and nursing homes.

In brief, Jimco A/S undertakes all types of projects – large and small.

Jimco A/S combines common sense with innovative thinking as the basis of the company's unique products. It is no coincidence that Jimco A/S supplies air-treatment units to some of the biggest chains in the world – including McDonald's, Scandic Hotels, McCain, Danish Crown etc.

ODOUR AND GREASE CONTROL IN COMMERCIAL KITCHENS

JIMCO A/S specialises in odour and grease control in commercial kitchens by using patented UV-C & Ozone technology.

Cleaner ducting, minimised risk of fire when cooking – the exhaust fan will operate more efficiently.

For a number of years, JIMCO A/S has developed and manufactured air-cleaning systems specifically for the reduction of grease and aromatic compounds in exhaust air with high temperatures (frying, boiling and deep frying processes).

JIMCO systems are based on UV-C & Ozone Technology that results in the cold incineration of organic matter from a process called photolytic oxidation. The process leaves no harmful residues.

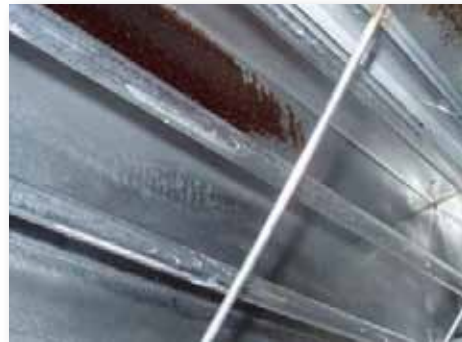
Due to increasingly higher hygiene demands in the food processing industry, the use of UV-C light to eliminate microorganisms e.g. bacteria, fungi and virus is becoming more and more commonly used.



Using UV-C light to eliminate microorganisms in the air is a technique that has been known for decades. UV-C light reduces the total amount of microorganisms in the room by breaking the DNA bonds in the organisms.

UV-disinfection – based on an exact calculated radiation rate – keeps the process air free of microorganisms and thus complies with local regulations.

KEEP YOUR HOOD CLEAN - REDUCE FIRE RISK



The above pictures show how grease quietly disappears with JIMCO elements mounted in the hood.

The advantages of using a JIMCO KPC system means the traditional problems with air filtration are eliminated.

Examples are: high chimneys, electrostatic filters, activated carbon filters, scrubbers, deodorizing oils etc.

ADVANTAGES

- ✓ Decreases risk of fire
- ✓ Tested and dependable equipment
- ✓ Reduces odour to the surroundings
- ✓ No use of chemicals or deodorizing oils
- ✓ No use of microbiology
- ✓ Eliminates the need to regularly clean the hood and the kitchen exhaust ductwork
- ✓ Maximum exhaust due to clean ductwork
- ✓ Compact installation, only needs limited space
- ✓ Immediate on/off function
- ✓ Pressure differential guards for fan failure
- ✓ Competitive installation costs
- ✓ Low operating and maintenance costs
- ✓ Option: heat reuse
- ✓ Simple to install in existing hoods

KPC SYSTEM COMPONENTS



Ballast box

- One or more UV-C elements
- Ballast box
- Electronic control cabinet
- Safety switch
- Pressure guard

KPC B-Series UV-C frame



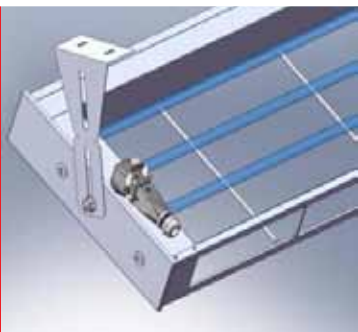
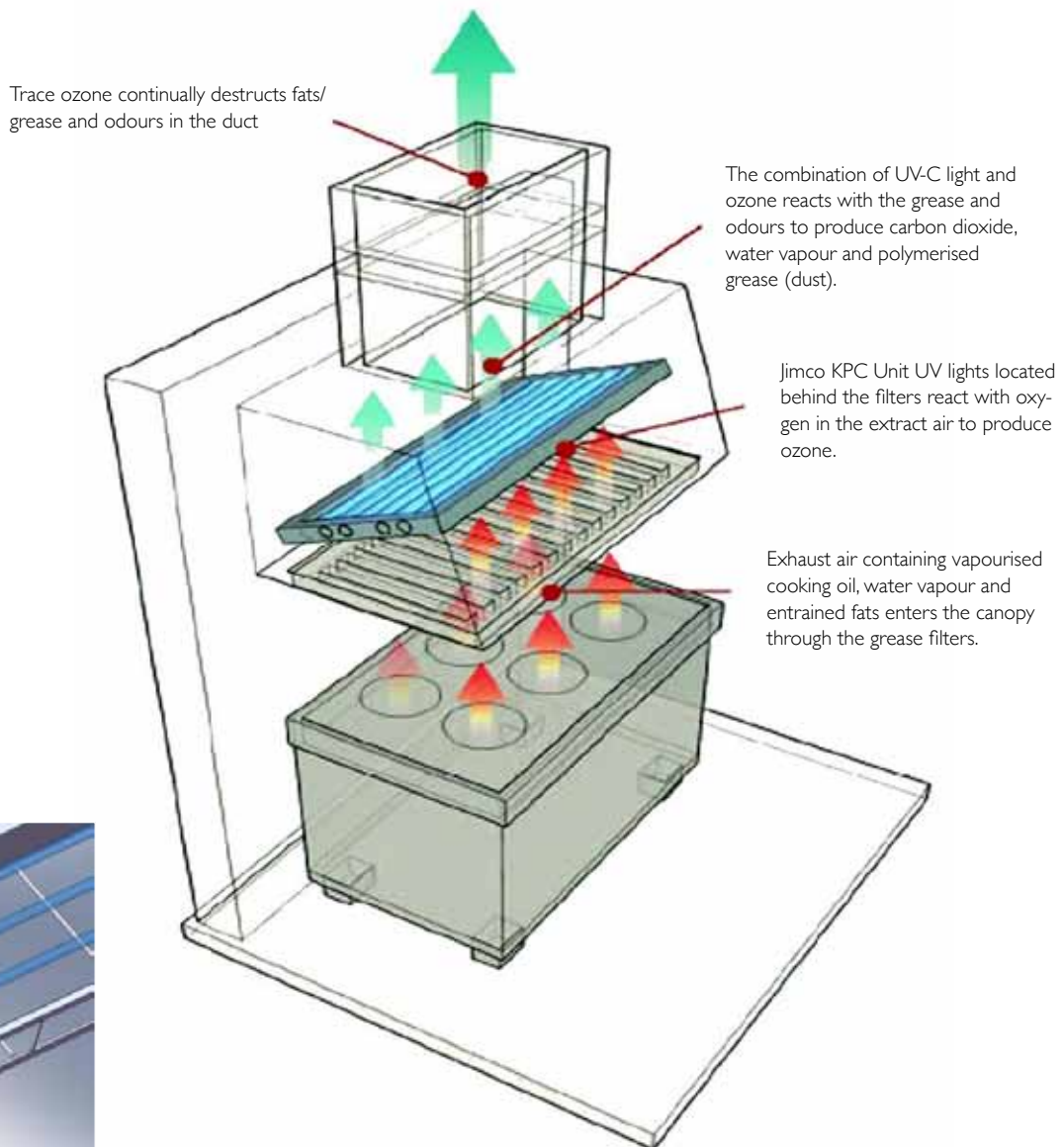
KPC DeLuxe UV-C frame



STO Control Boards



TYPICAL JIMCO KPC CANOPY UNIT



The JIMCO lamps are placed in a steel frame, which is installed behind the grease filters in the hood or, in case where this is not possible due to lack of space, in an enclosure immediately above the hood. Exposure to intensive UV-C light and ozone oxidation causes contaminants in the air to be destroyed, resulting in the reduction of odour emissions to the surroundings and no grease deposits in the ductwork.

This process reduces the odour emitted to the surroundings. At the same time, a small quantity of excess of ozone is generated to maintain the ducts in a clean condition and to destroy previously existing grease deposits within the ductwork.

We recommend that ducts be manually cleaned before installing a KPC system.

AWARDS AND VERIFICATION

THE EU ENVIRONMENTAL AWARD 1999 – 2000

JIMCO A/S


An environmental award in the category


CLEANER TECHNOLOGY

The purpose of this award is to encourage the development and use of technology, which considerably reduces the unwanted influence of the industry on the environment. It can be production technology or processes, which improve the utilization of resources, integrate recycling in the production, improve the lifecycle sequence of the product or the technology or in other ways contribute to the development of viable production. By the award of projects in this category importance will be attached to the innovative aspect and documented better resource economy compared to traditional production forms. The technology should be in use or have documented results from full-scale tests. Simple filter solutions cannot be considered.

Motivation:

JIMCO A/S is given an environmental award in the category cleaner technology for the development of Photo-Lytic-Oxidation-Systems for the reduction of odours, grease and oil using ultra violet light. The UV-light form ozone, which oxidises the odour substances/grease molecules in the air and thereby reduce obnoxious smells effectively. At the same time you will by using JIMCO's FLO-system avoid grease contamination of ductwork and fans and thereby considerably reduce the risk of fire as well as the problems of disposal of filters. The odour substances are transformed into CO₂, water and polymerised waxes. FLO-units are made in various sizes and are thus suitable for the use in restaurants as well as the industry etc. With the air-cleaning unit you will also have a compact installation, avoid the use of carbon filters or catalysts, no residues, competitive initial cost and low operational and maintenance costs. It is the opinion of the judging committee that JIMCO with the development of this system has found a simple and effective solution to a prevalent problem.


Jens Voernaa Rasmussen
The Danish Engineers Society
Chairman of the judging committee


Kristian Smeestad
The Danish Engineers Society
Secretary of the judging committee

The Environmental Award Competition has been arranged in cooperation with the EU-Commission and UNEP. The purpose of the Award Competition is to encourage and promote commendable initiatives in the environmental field.

The judging committee of the award have been composed of representatives appointed by The Danish Ministry for Environment and Energy, The Danish Trade Ministry, Danish Industry, The Trade Counsel of the Danish Labour Movement, The Danish Nature Conservancy Association and The Danish Engineers Society, who have handled the chairmanship and the secretariat and been in charge of the completion of the prize-giving.



THE DANISH ENGINEERS SOCIETY 

In February 2000, JIMCO A/S received the EU Environmental Award for Cleaner Technology for the development of the:

PHOTOLYTIC OXIDATION SYSTEM

THE ONLY KPC PRODUCTS IN THE WORLD WITH ETV VERIFICATION

JIMCO KPC products are certified by the ETV (EU Environmental Technology Verification).

More information about ETV can be found at:
<http://iet.jrc.ec.europa.eu/etv/>





UV-C AND OZONE SOLUTIONS FOR THE FUTURE
EUROPE · SOUTH AMERICA · USA · ASIA · MIDDLE EAST

JIMCO TECHNOLOGY USERS

KPC SOLUTIONS



INDUSTRY SOLUTIONS

