

SECURITY IS THE PRIMARY MAXIME ON BOARD

Crusing is increasing in popularity.

In Germany alone the number of currently offered cruse liners counts more than 150, considering sea and river cruisers. In order to offer a better orientation to the customers, independent testing institutes rely on obligatory evaluation standards.



Beside the quality of the accomodation, catering and service, security plays a major role at sea. Special attention on board is directed to fire control, due the fact that an extinction is far more complicated at sea and the fire tends to expand in a faster way on a boat. Fire prevention is therefore ranked first there.

Canteen kitchens as a source of danger In gastronomy, for example, grease accumulation on air ventilation ducts and exhaust air caps act as a major origin of danger. During combustion the fire is absorbed through the ventilation fence into the net of air ventilation conducts and expands explosively if heavily soiled. Ventilation ducts over cooking pits are to be kept clean at all costs to prevent eventual fires from being alimented.

Traditional systems such as Foucault current filters or washing hoods only offer an insufficient reduction of the fat compounds. Structural measures can reduce the risk of a fire extension, but tend to be very complex and therefore cost-intensive.

New AIDA-generation with Jimco technology

Meyer Shipyard in Papenburg took the decision to equip their lately ordered four new AIDA cruisers with Jimco's UV-C Ozone technology, after successfully testing our system

during a period of several years. The plants were adapted to specially for naval architecture developed exhaust caps provided by Wagener Gastronomy Engineering, satisfying the criteria of USPH directives.

This whole air ventilation system allows the use of space saving and lighter exhaust air caps that offer at the same time a high stability. The UV-C- Ozone air purification system provided by Jimco A/S is implemented in this exhaust air cap. It effectively reduces organic components found in the exhaust air directly at the origin, avoiding this way the usual grease sooting as well as the fire risk involved. At the same time it significantly increases the durability of the exhaust fans. A pleasant side effect: Even odours caused by deep frying or roasting are destroyed, as well as appearing bacteria, germs and viruses.

Economic and environment-friendly

Another advantage of the UV-C- Ozone air purification system is that the tiresome cleaning of exhaust cap, air ventilation system and connected additional components can be avoided. Just the photozoic lamps have to be examined and occasionally cleaned. The UV-C- Ozone air purification system operates without using any kind of chemical products of filters.

The photozoic lamps generate UV-C radiation under controlled conditions, which stimulates the existing oxygen (O₂) to produce an in the air reactive kind of oxygen (Ozon = O₃). This way no nocuous nitrogen oxides are produced – e.g. as found while creating ozone using electric charges while welding or copying. Ozone is an extremely reactive and unestable kind of oxygen, showing the capacity of oxidising compounds found in the air, like fat particles. Final products are oxygen, carbon dioxide, water steam and dust-like, 100 % biodegradable remnants, expelled through the ventilation system. This technology was awarded by the EU in 2000 for its environmental caring relevance.

Retrofit at any time

You can even easily retrofit existing exhaust air caps with Jimco's UV-C- Ozone devices. Accumulated grease in the air duct or rather in additionally connected components can easily be reduced at the device's runtime.

JIMCO A/S deals with the planning, installation and service of a UV-C-/Ozone system, both in case of a new installation and when retrofitting is required.