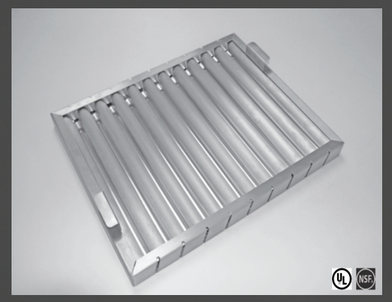
Advantages of the FECON-UV® filter



- Highly efficient grease extract rate.
- Excellent levels of hygiene – NSF approved.
- Completely constructed in stainless steel.
- Solid and durable construction.
- Proven and certified certified for non-penetration of flame in the event of flash fires. (DIN 4102).
- Easily cleaned in commercial dishwashers.

V-CLIX LOW ENERGY LUMINAIRE

The Vianen V-CLIX luminaire is specially designed for use in the Vianen canopies and ceiling systems for the professional kitchen. The modern and sleek design of the V-CLIX allows for easy maintenance.
The lighting level of 500 lux at working height is standard.

CONSTRUCTION

The Vianen V-CLIX luminaire is designed with an anodized aluminium frame to dissipate the heat.
The luminaire has an integrated, tempered and clear glass panel.
A driver is mounted on top of the LED panel, which is connected to the 230V connection box.

On request Vianen can deliver alternative light fittings to suit customer requirements.
Inbuilt emergency lights can also be delivered upon request.

CERTIFICATES

NSF - tested and approved for their high standard of hygiene

UL - tested and approved

Tested and approved as flame retardant by an independent institute.

Disclaimer

Vianen has compiled the following brochure for information purposes only. The actual product may deviate from the specifications provided in this brochure.

VIANEN
KITCHEN VENTILATION

UV-C

ADVANTAGES

- Destroys grease particles in the extract air stream
- Cost effective alternative to carbon filters
- Can be installed in existing ventilation systems
- Low maintenance costs

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VIANEN
KITCHEN VENTILATION

GB

DESCRIPTION

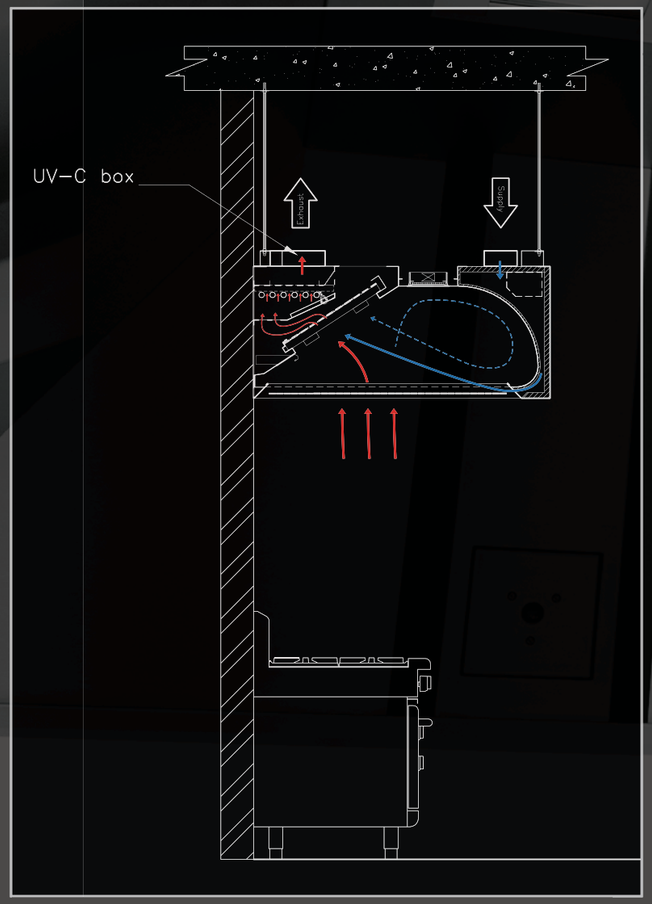
The Vianen UV-C system can be used in any Vianen canopy or ceiling system and is suitable for all types of cooking equipment especially those that create high grease loads. The UV-C system generates ozone which breaks down grease particles reducing the build-up of grease deposits in the ductwork also helps to reduce some cooking odours that would otherwise be released into the surrounding area at the kitchen extract discharge point.
Please note that the UV-C system is not a deodoriser. All VIANEN UV-C canopies are supplied with a dedicated Control Unit to ensure safe and simple operation of the system which requires very little maintenance and service.

VIANEN UV-C canopies are fitted with specially developed FECON UV filters to prevent any leakage of UV light from within the canopies extract plenum. The UV-C system can be incorporated into any Vianen Water Wash of MUAP canopy.

CONSTRUCTION

The VIANEN UV-C system uses special UV-C light tubes for grease destruction and can reduce some odours.
The tubes are mounted in a stainless steel patented enclosure with a hinged access door.
This UV-C module is located behind the FECON-UV grease filters within the extract plenum.
The safety design features ensure the safety of the kitchen staff and operatives are not exposed to UV light.
The UV-C Control Panel supplied with every UV system is a fully welded type 304 stainless steel unit, ultra-fine grain polished (320 grit) standard measurement 400 x 300 x 155mm with a sloping top and hinged access door which can only be opened with a security key. A digital display provides information relating to the status of the system and any alarm condition.

Using the UV-C system the canopy has an extra exhaust pressure drop of 60 Pa.



Advantages of the VIANEN V-UV-C system:

- Incorporates three safety features.
- Has been subjected to extensive testing to ensure reliability.
- Components CE certified.
- Compact installation.
- Cost effective alternative to carbon filters.
- Low maintenance costs.

Design considerations:

- The size and number of UV-C modules is dictated by the extract airflow rate (m3/h) through the canopy and the overall size of the canopy.
- The maximum temperature of the air passing over the modules is typically 45°C.
- To ensure complete oxidation a minimum reaction time of 2 seconds is required between the duct connection to the UV-C module and the extract system discharge point.
- Power requirement is 230/240 V 1 phase for a typical module with 6 UV-C tubes.
- The exhaust airstream pressure drop over a VIANEN canopy incorporating UV-C modules and FECON UV-C® Filters is only 160 Pa.

The UV-C system incorporates three safety features.

- It is only possible to remove the FECON UV-C® filters from one set position of the filter housing which is marked with an arrow. At this position, a pressure sensor is mounted to register whether the filter is properly installed. Should the filter be disturbed or removed from this position the sensor will immediately shut down the system.
- If any other filter is missing or has been in any way incorrectly installed a separate pressure sensor mounted within the canopy extract plenum will detect a fall in pressure differential and shut down the system.
- The UV Control Unit will in all cases be linked to the ventilation extract fan to ensure the system only operates when the extract fan is running. Should the extract fan fail or stop the Control Unit will again immediately shut down the UV-C system.

Maintenance

The system requires very little maintenance or service. The UV-C lamps should be checked on a weekly basis and cleaned with a soft cloth and white spirit. Any lamp failure will be indicated at the Control Unit. The UV-C lamps have a life of 8,000 hours and the Control Unit features a lamp life countdown readout.

Warning

- Only suitably qualified personnel is allowed to work on the UV-C system;
- Direct and indirect exposure to UV light can impair eyesight and exposure to excessive quantities of Ozone can cause damage to the human respiratory organs.
- Ozone present in the extract air stream can cause damage to aluminium and any rubber seals that may be exposed to the exhaust air system.

It is for this reason VIANEN places great importance on the mechanical and electrical safety features incorporated in the UV-C system design.