

## FECON GREASE EXTRACATION FILTER

The Vianen FECON filter is designed to extract grease from cooking vapours in commercial kitchen ventilation system. The semi-circular channel construction of the filter guarantees the highest attainable grade of grease extraction by creating a centrifugal force in the filter. The efficiency of the FECON filter is 95%. The grease collects in the lowest part of the filter preventing clogging and maintaining an even extraction over the entire length of the ventilation system. The filters are placed at an angle of approximately 45° in the canopy and are easily removable. The FECON filter is flame retardant and in case of flash fires the FECON filters prevent the flames from penetrating into the ductwork.

### CONSTRUCTION

Vianen FECON filters are constructed from stainless steel type 304 (DIN 1.4301 grit 320) 1.20 mm thick. The 36mm thick filter is constructed without rivets and is provided with two integrated handles formed from the surrounding frame. On the top and bottom the filter is 10% open for the out stream of grease and moisture. The FECON filters are resistant to aggressive detergents.

### ADVANTAGES

High grease extraction rate  
 solid construction  
 Entirely constructed of stainless steel  
 Simple to remove without tooling  
 Flame retardant  
 Easy maintenance in any commercial dish was machine



### CERTIFICATES

NSF - tested and approved for their high standard of hygiene.  
 UL - tested and approved.  
 TNO - fire certificate.

### V-LEL INTEGRATED LIGHT FITTINGS

The canopies are fitted with V-LEL low energy LED light fittings, which are specially designed for VIANEN stainless steel canopies.

The standard type is 220/230v - 50Hz.  
 Standard 2 sizes : 1250/650mm.  
 On request Vianen can deliver alternative light fittings to suit customer requirements.  
 Inbuilt emergency lights can also be delivered upon request.

## INDUCTION CANOPY MODEL GV

Energy saving up to 60%



### ADVANTAGES

- ✓ Energy savings up to 60% using un-tempered outside air
- ✓ Even pressure drop over the filters
- ✓ Comfortable working environment as the system allows for heat removal
- ✓ Un-tempered air contained in the canopy
- ✓ Reduces draft in the kitchen

**GENERAL DESCRIPTION**

To maintain a kitchen at a negative pressure when extracting kitchen vapours via an extraction unit the air should be simultaneously supplemented. This can result in high energy costs. Energy savings can be achieved by drawing un-tempered outside air directly into the extraction canopy. This air is then forced through the adjustable air slot creating a venture effect which increases the velocity of the air stream. The utilization of this high velocity air stream greatly increases the exhaust efficiency. The Fecon filters are inserted in the canopy at an angle of 45°. The air passes through the semi-circular channels of the Fecon filters and is forced into two directions separating the heavier grease particles from the air stream by centrifugal force. The grease runs off into the grease collecting gutter and is collected in a removable tray.

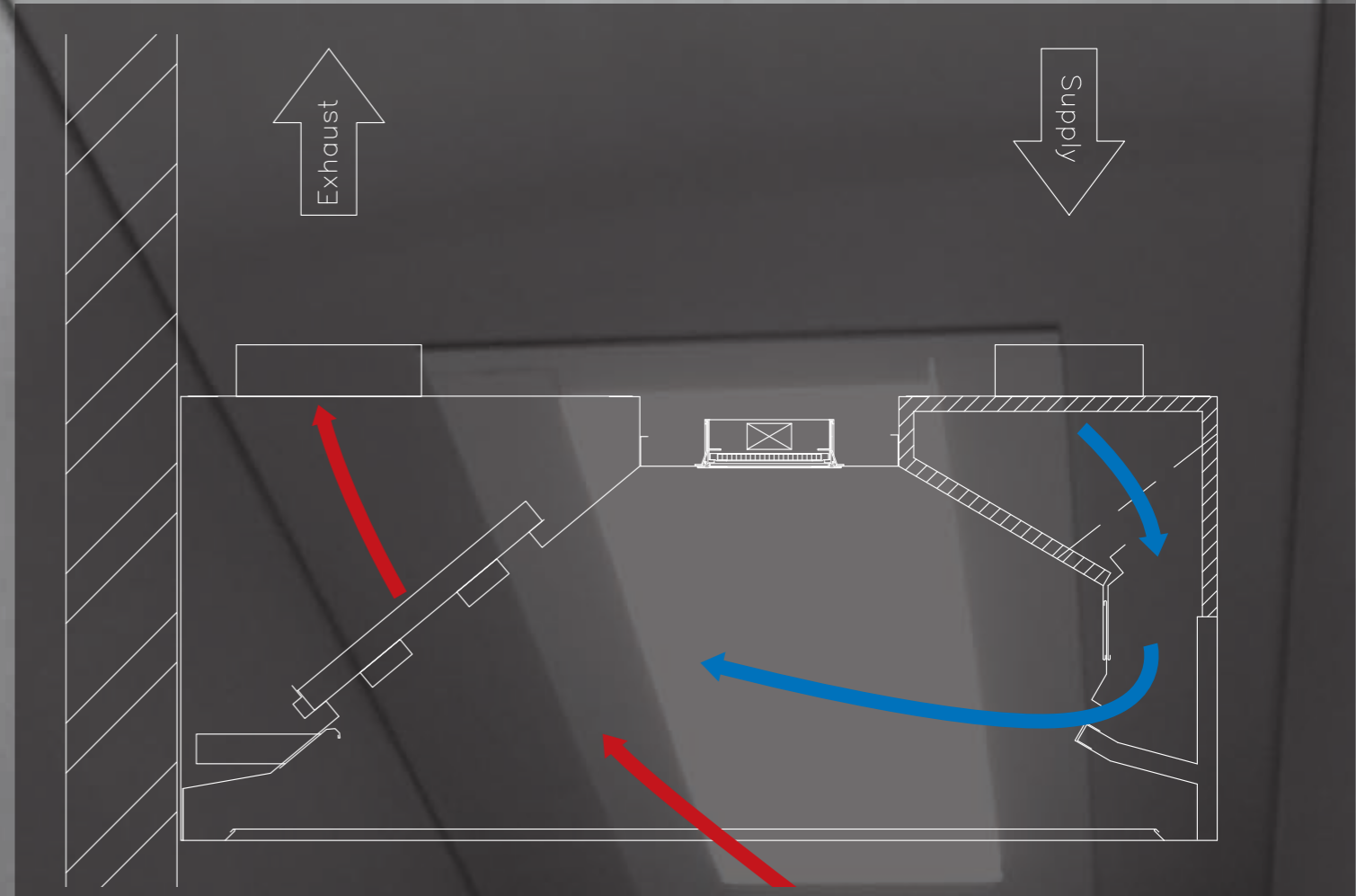
This compensation of approximately 60% exhaust air is a proven energy saver as only 40% tempered air is wasted. The design provides a comfortable work environment as it allows for heat removal and the untampered air is always contained within the canopy and personnel are not subjected to overhead draught.

**APPLICATION**

The GV canopy is suitable for all types of cooking equipment. The canopy is suitable for island and wall mounted cooking arrangements.

**FABRICATION**

The canopy is fabricated from stainless steel, all joints are welded and exposed surfaces are made of double sided, satin finish stainless steel 304 (DIN 1.4301 grit 280). The sheet thickness is 1.25mm and canopies can be fabricated jointless up to lengths of 6 meters. All canopies are provided with a condense channel with crush folded sloping edges. The internal vertical joints are fitted with cover strips and all edges are properly deburred. The supply air plenum is insulated with 25mm thermal insulation. The supply air slot is adjustable and fitted with special baffles to regulate the volume of the air flow. The standard height of the canopy is 600mm and can invariably be adapted to meet customer requirements. Hanging brackets are fitted on top of the corners of the canopy for easy installation to the ceiling



**The GV canopy is available in the following configurations**

Vianen GVW	- max. 60%	WALL	Width 1300mm Height 600mm
Vianen GVE	- max. 60%	DOUBLE ISLAND	Width 2600mm Height 600mm

Canopies in other dimensions are available to suit specific site requirements.

**Options**

The Vianen GV canopies are available with several options to further increase their efficiency and improve the working environment within the kitchen space.

1. Water Wash (WW) and also Water Misty.
2. Vianen UV-C Filtration System.
3. Make-up / Supply air – MUAP.