

VIANERGY II

 **28% Energy saving**

TNO TESTED



STANDARD DIMENSIONS

WALL CANOPIES	Width 1400mm	Height 600mm
SINGLE SIDED ISLAND	Width 1400mm	Height 600mm
ISLAND CANOPIES	Width 2600mm	Height 600mm

Deviations to these standards can be adapted to meet customer requirements.



FECON GREASE EXTRACTION FILTER

The Vianen Fecon filter is designed to extract grease from cooking vapors in commercial kitchen ventilation systems. 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 98 % by 8 micron. 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 resistant 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 1.4031 grit 320) 1.20 mm thick. The 36 mm 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 10% is open for the out stream of grease and moisture. The Fecon filters are resistant to aggressive detergents.

Advantages of the FECON filter:

- High grease extraction rate
- Solid construction
- Constructed of stainless steel only
- Long life
- Simple to remove without tooling
- Flame retardant according to DIN 4102 fire safety standard
- Easy maintenance in any commercial dish wash machine

Certificates:

- NSF - tested and approved for their high standard of hygiene.
- UL - tested and approved.
- TNO-fire certificate (fire resistant according to DIN 4102).

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.



ADVANTAGES

- ✓ Energy saving - reduction in air conditioning costs
- ✓ Energy saving LED lights, V-LEL
- ✓ Reduces spillage of exhaust fumes into the kitchen area
- ✓ Reduces draught in the kitchen
- ✓ Comfortable environmental conditions

DESCRIPTION

Suitable for all types of cooking equipment over wall and island arrangements. On the three sides (wall type) and 4 sides (island type) air is discharged into the canopy via Jet Stream slots for a capture air stream effect.

This system creates a complete envelope around the cooking apparatus reducing spillage of exhaust. A significant improvement of the capture and containment performance of the Vianergy II canopy is obtained due to the modification in the curved structure on the internal side of the front of the canopy. The curved structure ends with a specially designed (and patented) lip, angled upward to turn the deflected air back to the filter.

On the bottom channel is a horizontal supply air slot, capture air principle, that blows air into the canopy with a velocity of 2m/sec. capturing the deflected airflow and lifts it back to the filter bank. The Jet Stream supply has a maximum of 10% of the exhaust volume. This avoids spillage of fumes and contaminants back into the kitchen.

A significant energy saving is achieved due to this new, patented construction, tested by TNO, the Netherlands, conform ASTM F1704 method.

JET STREAM AIR

Jet Stream air is drawn by fan from the ceiling void or ducted from the buildings to factory fitted spigots on the canopy roof. The air passes into the insulated supply air plenum and passes out through a series of slots into the main canopy envelope. The air is delivered from these slots at a maximum velocity of 2m/s and at a rate of 40m³/h per linear meter, which represents less than 10% of the total extract airflow rate. This ensures a positive capture and containment of the thermal plume generated by the cooking process. Air is also available to be discharged through the spot coolers located on the underside of the front lip of the canopy for personal comfort of the cooking staff.

CONSTRUCTION

The canopy is fabricated in stainless steel type 304 (DIN 1.4031) 1.0 -1.20 mm thick. All visible surfaces are ultra-fine grain polished (320 grit) and polythene protected. The canopy is cut, punched and folded into seamless section up to 6m in length and factory assembled by means of computer controlled seam welds and non-visible mechanical fixings. Joints are provided with internal cover-plates so that no joints or mechanical fixings are visible. All metal edges are rolled smooth and are free from sharp edges and projections. The canopy is equipped with Vianen FECON grease extraction baffle filters. The filters are designed to allow the grease to run off the filters into an integral grease collecting channel and then into easily removable grease trays. The canopy has a constant exhaust pressure drop of 100 Pa and a Jet Stream supply air pressure drop of 40 Pa.

Optional: A single phase 230/240 V fan with filter may be mounted on the roof to supply the required Jet Stream air

Optional: MUAP in the front of the canopy

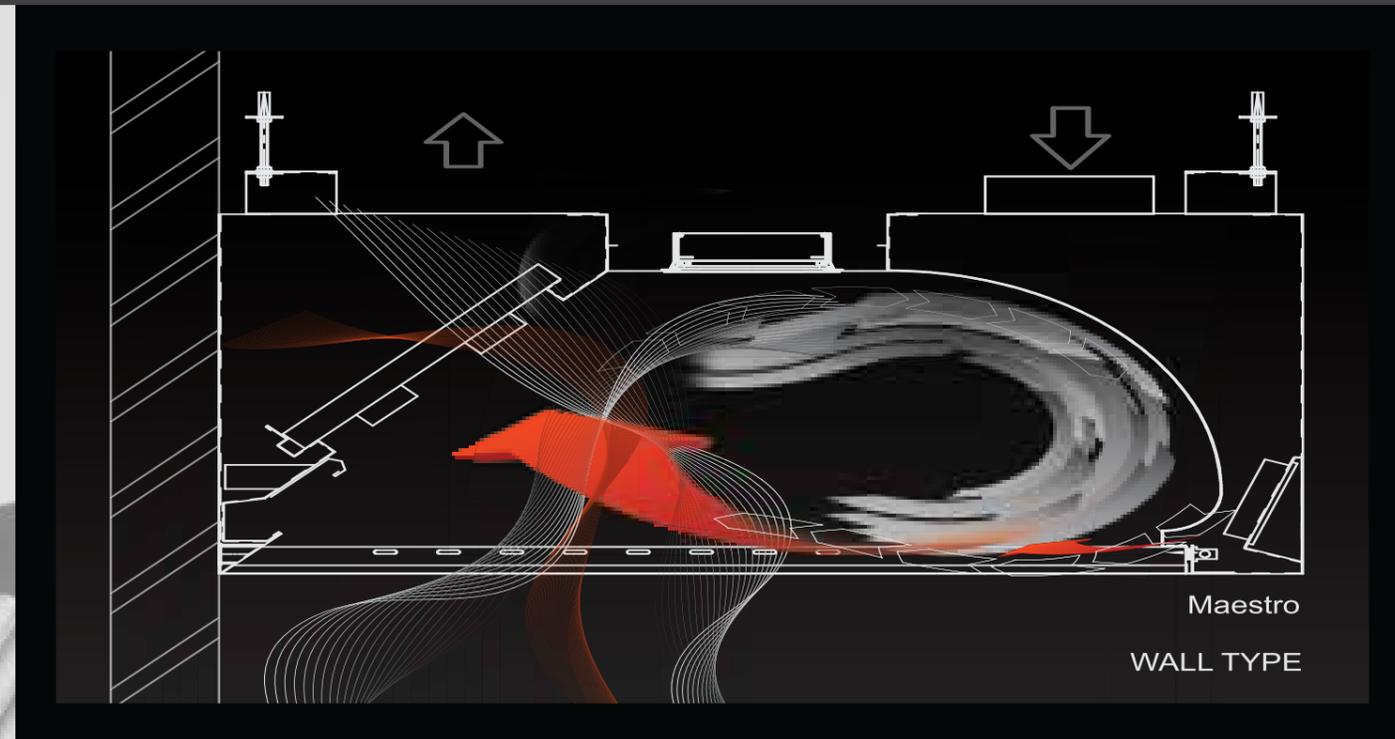
Optional: Maestro – kitchen management system

Optional: UV-C

Optional: Water Wash

Optional: Water Misty

Optional: WW-Misty-UV



OPTIONAL - MUAP AIR

The MUAP plenum is fabricated from 1.0 – 1.2mm thick type 304 stainless steel. All visible surfaces are ultra-fine grain polished (320 grit) and polythene protected. The plenum is cut, punched, folded and assembled by means of computer controlled seam welds and non-mechanical fixings. Seamless sections can be manufactured up to 6m in length. The internal surfaces of the MUAP plenum are fully insulated. The front face of the MUAP plenum features removable perforated panels.

The pressure drop over a Vianen MUAP plenum is 40 Pa.

INSTALLATION

The MUAP plenum is factory assembled along with the main canopy body to form a single piece construction. The supply air spigots on top of the MUAP plenum should be connected to the tempered kitchen supply air stream. Hanging brackets are fitted on top of the corners of the canopy for easy installation to the ceiling.

THE VIANERGY II IS AVAILABLE IN THE FOLLOWING CONFIGURATIONS:

VIANEN VIANERGY II A	- Max JETSTREAM SUPPLY 10%	WALL MOUNTED
VIANEN VIANERGY II E	- Max JETSTREAM SUPPLY 10%	SINGLE SIDED ISLAND
VIANEN VIANERGY II D	- Max JETSTREAM SUPPLY 10%	DOUBLE SIDED ISLAND
VIANEN VIANERGY II A MUAP	- Max SUPPLY 80%	WALL MOUNTED
VIANEN VIANERGY II E MUAP	- Max SUPPLY 80%	SINGLE SIDED ISLAND
VIANEN VIANERGY II D MUAP	- Max SUPPLY 80%	DOUBLE SIDED ISLAND