

VIANERGY II

Energy saving galley canopy

Patented

Designed according to USPH-S requirements

MARINE

GB

ADVANTAGES

Energy saving - reduction in air conditioning up to 28%

Reduction in fans and duct sizing

Reduces spillage of exhaust fumes into the galley area

Reduces draught in the galley

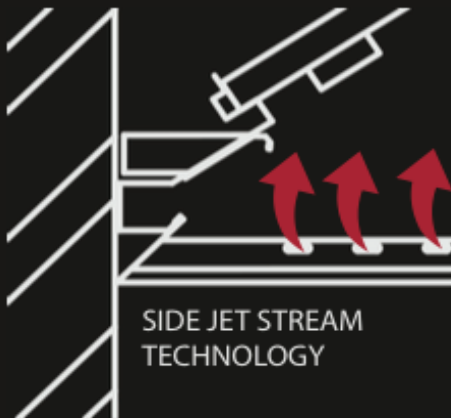
Comfortable environmental conditions

Energy saving LED lights, V-LEL

Double folded edges for health and safety

FECON® grease filters – UL and NSF certified, TNO - tested and approved flame retardant.

JET STREAM AIR TECHNOLOGY



Jet Stream Air Technology is drawn by fan from the ceiling void or via ducts to factory fitted ISO 15138 flanges on top of the canopy.

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 $2\text{m}^3/\text{s}$ and represents less than 10% of the total extract air flow rate.

This technology ensures a positive capture and containment of the thermal plume generated by the cooking process.

OPTIONAL - MUAP AIR

The MUAP plenum is fabricated from 1.0 – 1.2mm thick type AISI 304 or optional AISI 316L 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.

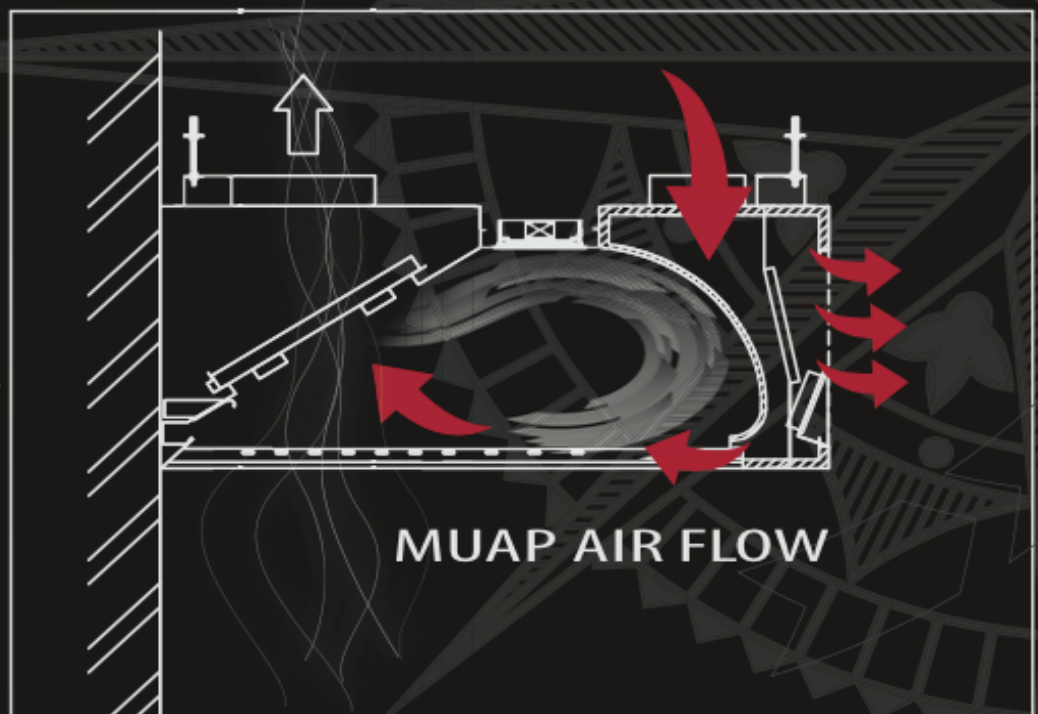
The internal surfaces of the MUAP plenum are fully insulated.

The front face of the MUAP plenum features removable perforated panels.

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

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 supply air stream.



Optional

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

DESCRIPTION

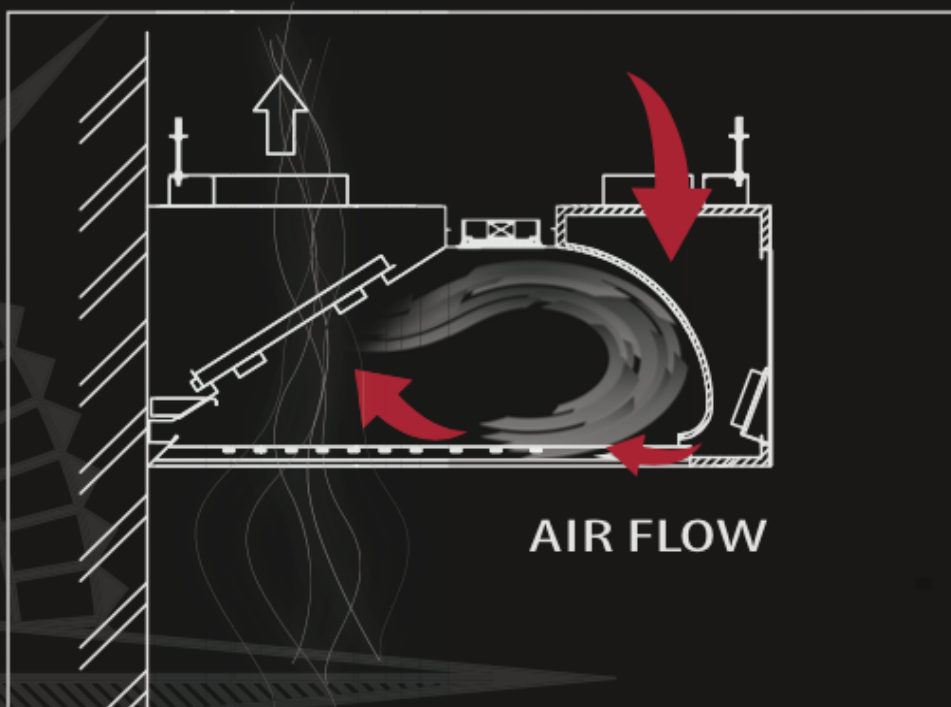
Suitable for all types of cooking equipment over wall and island arrangements.

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.

The canopy is designed with slots for the air supply, capture air principle, on the inner bottom circumference - three sides (wall type) and 4 sides (island type).

This capture air is introduced into the canopy with a maximum velocity of $2\text{m}^1/\text{s}$ and it lifts the deflected airflow back to the filter bank, avoiding spillage of fumes and contaminants back into the galley.

A significant energy saving, approximately 28%, is achieved due to this new, patented construction, tested by TNO, the Netherlands, conform ASTM F1704 method.



CONSTRUCTION

The canopy is fabricated from 1.0 – 1.2mm thick type AISI 304 or optional AISI 316L stainless steel.

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 filters which 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 Vianergy II® canopy has a constant exhaust pressure drop of 100 Pa and a Jet Stream Air Technology pressure drop of 40 Pa.



FECON® GREASE EXTRACTION FILTER

Vianen Fecon filters are designed to extract grease from cooking vapors.

- Semi-circular channel construction of the filter guarantees the highest attainable grade of grease extraction by creating a centrifugal force in the filter.
- Grease collects in the lowest part of the filter preventing clogging and maintaining an even extraction over the entire length of the ventilation system.
- High efficiency of the FECON® filter is 98 % by 8 micron.
- Placed at an angle of approximately 45° in the canopy.
- Locked in to for the most demanding environments.
- Flame retardant in case of flash fires.
- FECON® filters prevent the flames from penetrating into the ductwork.



Cyclone principle of the FECON® filter

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.



CERTIFICATES

NSF - tested and approved for their high standard of hygiene

UL - tested and approved

TNO - tested and approved flame retardant

Advantages of the FECON® filter

High grease extraction rate

Solid construction

Constructed of stainless steel only

Flame retardant according to DIN 4102 fire safety standard

Long life

Simple to remove without tooling

Easy maintenance in any commercial dish wash machine

THE VIANERGY II GALLEY CANOPY IS AVAILABLE IN THE FOLLOWING CONFIGURATIONS

VIANEN VIANERGY II A	JET STREAM SUPPLY max. 10%	WALL MOUNTED
VIANEN VIANERGY II E	JET STREAM SUPPLY max. 10%	SINGLE SIDED ISLAND
VIANEN VIANERGY II D	JET STREAM SUPPLY max. 10%	DOUBLE SIDED ISLAND
VIANEN VIANERGY II A	MUAP SUPPLY max. 80%	WALL MOUNTED
VIANEN VIANERGY II E	MUAP SUPPLY max. 80%	SINGLE SIDED ISLAND
VIANEN VIANERGY II D	MUAP SUPPLY max. 80%	DOUBLE SIDED ISLAND

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

V-LEL INTEGRATED LIGHT FITTINGS IP65

The canopies are fitted with V-LEL, which are specially designed for VIANEN canopies.

The standard type is 220/230V – 50Hz.

Standard sizes : 1229 mm - 40 W
: 629 mm - 20 W

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



INSTALLATION

Hanging brackets are fitted on top of the corners of the canopy for easy installation.

VIANERGY II® - GALLEY SPECIFICATIONS

Standard	Optional
Material: AISI 304; Thickness 1.0 - 1.2mm	Material: AISI 316L
28% Energy Saving	
FECON® UL, NSF, TNO grease extraction filters	
V-LEL integrated IP65 LED lights	V-ITL lights or LED spots
Double folded edges	
USPH-S design requirements	NORSOK, DNV-GL or NFPA 96
Duct flanges ISO 15138	
Mounting brackets	
	Water Wash (+ Misty)
	UV-C System
	VéTEC® - Efficiency Technology
	Maestro® - Kitchen Management System
	Orchestra® - Health and Safety Panel
	Powder coated in any RAL colour.



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