

Kitchen

Ventilation

System Design

System Installation



# Kitchen

## Ventilation



# providing the optimum working environment

Effective provision of indoor air quality to create a fresher, cleaner and healthier environment is a pre-requisite across the catering industry.

Climate control is a precise science – it is no longer enough to open a window or put a portable fan in the corner of an over-warm room. There are stringent health and safety regulations in force which ensure employers take the working environment seriously.

Weatherite Building Services Ltd is the expert organisation, capable of providing the most appropriate solution for your specific need.

Energy savings, ventilation problems, extraction, recirculation – Weatherite Building Services can design and install proven and compliant systems to improve working conditions and maintain them. From the simplest canopy design to a sophisticated ceiling system, Weatherite Building Services can help you to create a fresher, cleaner and safer kitchen environment, improving standards in health and safety in any commercial kitchen.

We work in partnership with De Kobra, one of Europe's leading kitchen ventilation manufacturers: all De Kobra canopies and ventilated ceilings are manufactured from 18/10 AISI 304 brushed stainless steel. To ensure absolute hygiene standards all units are welded with no visible fixings and only internal folds.

## safe, comfortable, hygienic

### System Design



### System Installation

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# Economy Extract Canopies

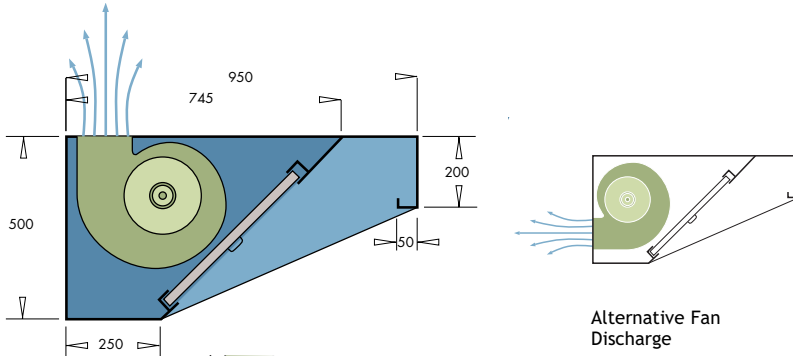
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## Model 9

- Supplied with built-in extract fan with variable speed single-phase motor.
- Available for either horizontal or vertical discharge.
- Speed-control supplied for customer installation.
- Non-standard lengths can be supplied.

### specification

Standard length	Number of filters	Extract Volume
2000mm	4	3000m <sup>3</sup> /Hr
2300mm	4	@ 250Pa
2600mm	5	
2900mm	5	



## Application

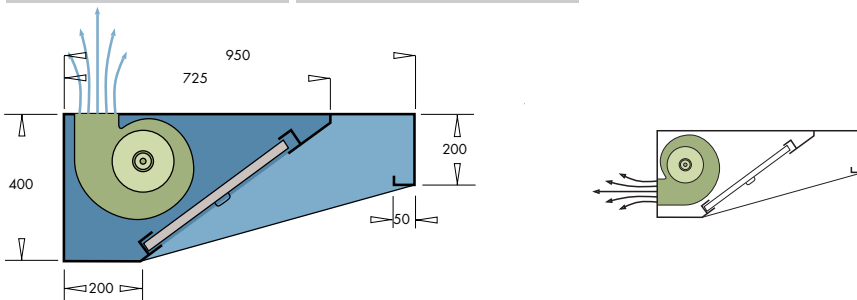
With or without integral fan, for smaller catering operations.

## Model 7

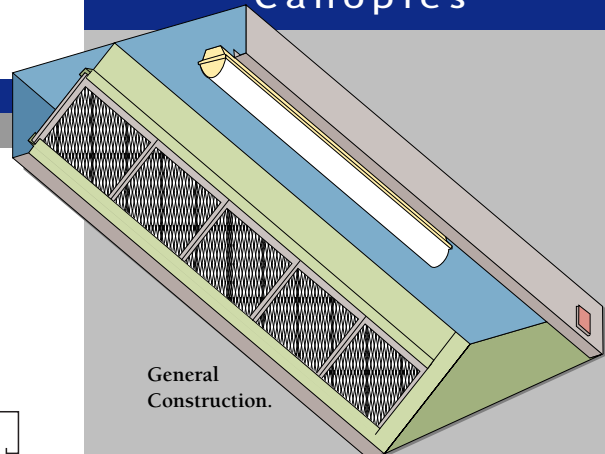
- Supplied with built-in extract fan with variable speed single-phase motor.
- Available for either horizontal or vertical discharge.
- Speed-control supplied for customer installation.
- Non-standard lengths can be supplied.

### specification

Standard length	Number of filters	Extract Volume
800mm	2	1800m <sup>3</sup> /Hr
1100mm	2	@ 150Pa
1400mm	3	
1700mm	3	



## Economy Extract Canopies



General Construction.

## Grease Filters

Grease and condensation collection filters are easily removed for cleaning without the aid of tools. Stainless steel baffle, stainless steel mesh and aluminium mesh versions are available.

## Light Fitting (optional) Recessed (model 5 only) or Surface Mounted

A hermetically-sealed (IP65) light fitting may be installed in the top of the extraction canopy. A pre-wired light switch is incorporated in the front of the canopy where lighting is included.

## Automatic Fire Suppression System (optional)

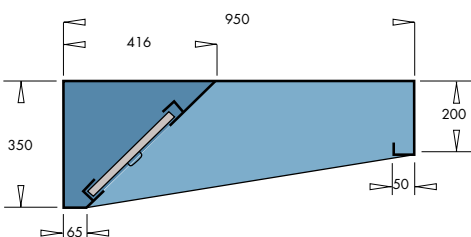
A fire suppression system may be incorporated to protect the canopy, ductwork connections and hazardous items of cooking equipment.

## Model 5

- Supplied without extract fan.
- Non-standard lengths can be supplied.

### specification

Standard length	Number of filters	Standard length	Number of filters
700mm	1	2200mm	4
1200mm	2	2700mm	5
1700mm	3	2900mm	5

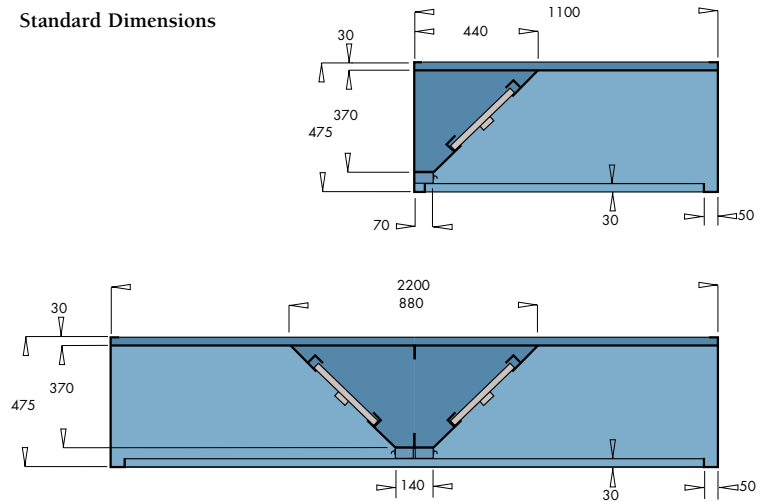


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# Extract Only Canopies

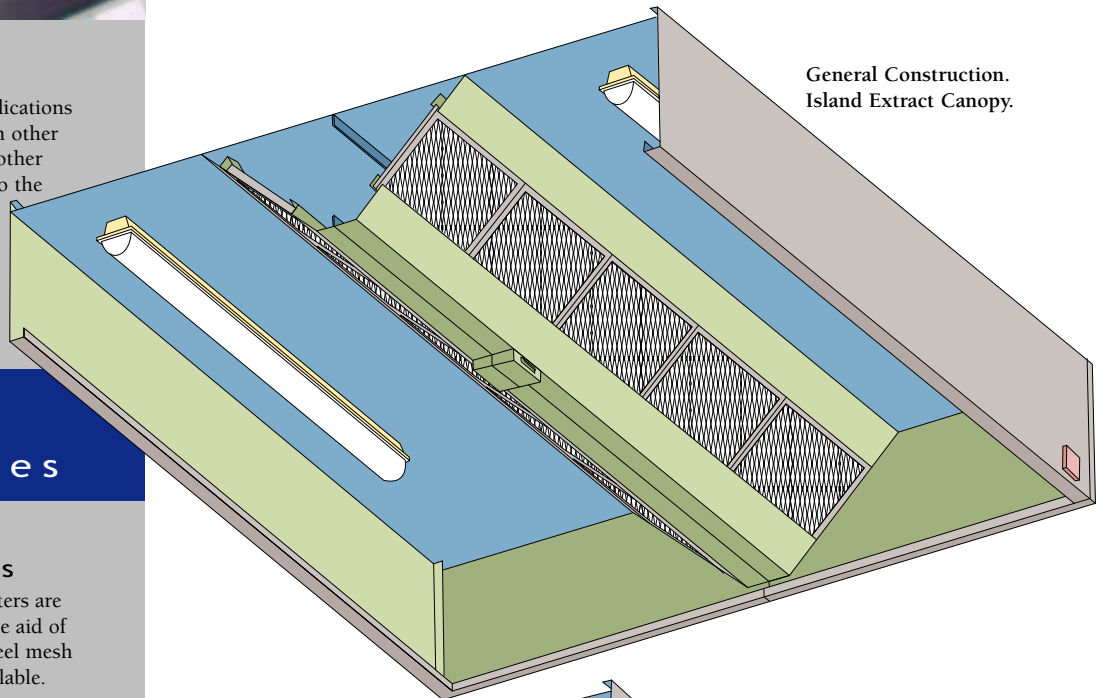


Standard Dimensions



## Application

For most medium and heavy duty applications where replacement air is available from other sources. Extract canopies can include other aspects such as supply air. Variations to the standard model are readily available and include provision of supply air.



General Construction.  
Island Extract Canopy.

## Extract Only Canopies

### Grease Filters

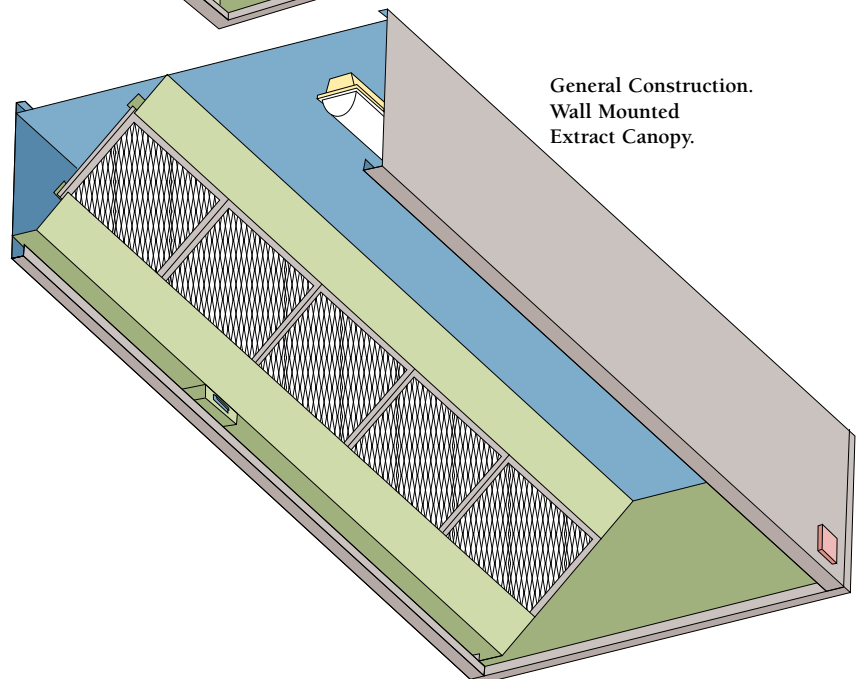
Grease and condensation collection filters are easily removed for cleaning without the aid of tools. Stainless steel baffle, stainless steel mesh and aluminium mesh versions are available.

### Light Fitting (optional) Recessed or Surface Mounted

A hermetically-sealed (IP65) light fitting may be installed in the top of the extraction canopy. A pre-wired light switch is incorporated in the front of the canopy where lighting is included.

### Automatic Fire Suppression System (optional)

A fire suppression system may be incorporated to protect the canopy, ductwork connections and hazardous items of cooking equipment.

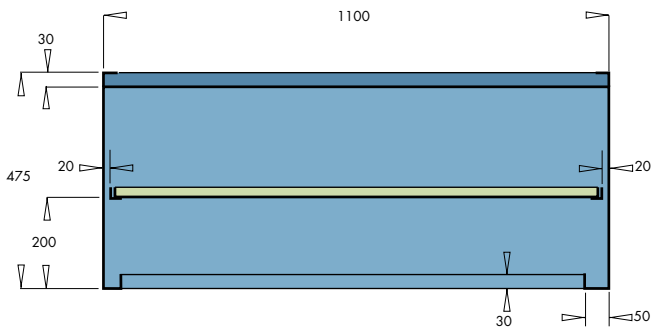


General Construction.  
Wall Mounted  
Extract Canopy.

# Dishwasher Canopies

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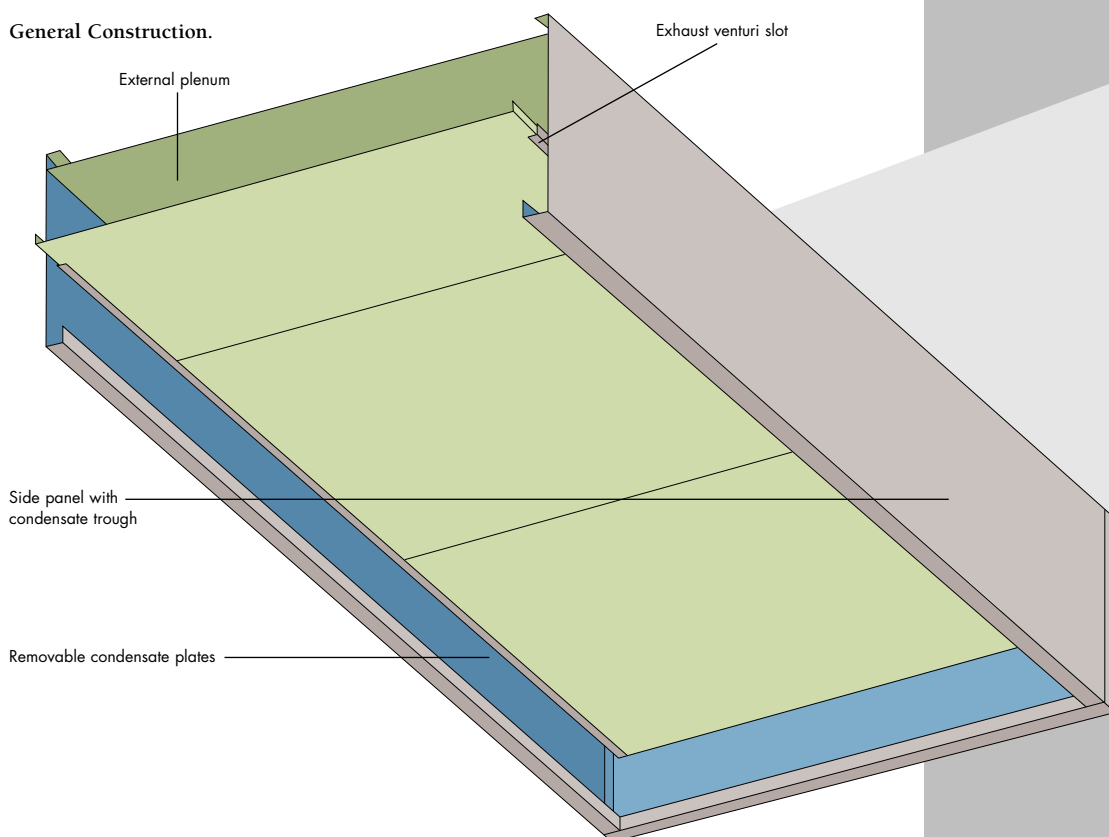
## Standard Dimensions



## Application

Provided with built-in condensate plates and designed for extraction of steam.

## General Construction.



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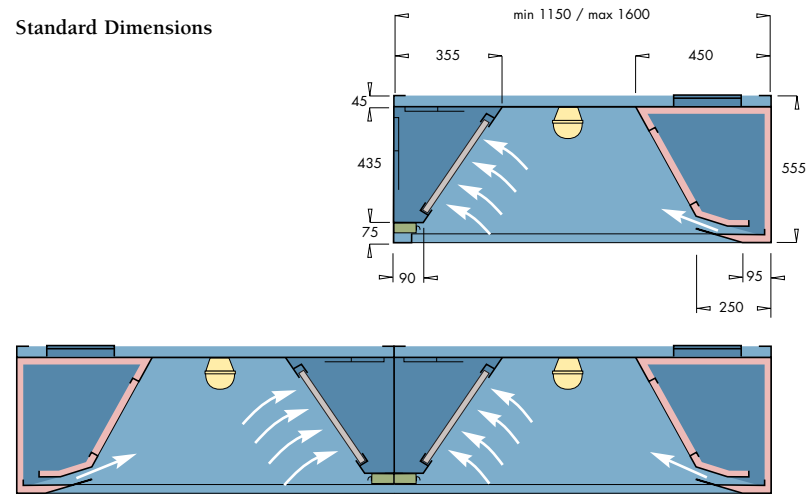


# Inductovent Canopies

## specification

Wall-mounted Canopy Width	Wall-mounted Canopy Height	Island Canopy Width	Island Canopy Height
1100mm to 1600mm	555mm	2200 to 3200mm	555mm

### Standard Dimensions



**Application**  
Provides untempered supply air directly into filters. Greatly reduces extract from the room and thereby reduces building heating costs.

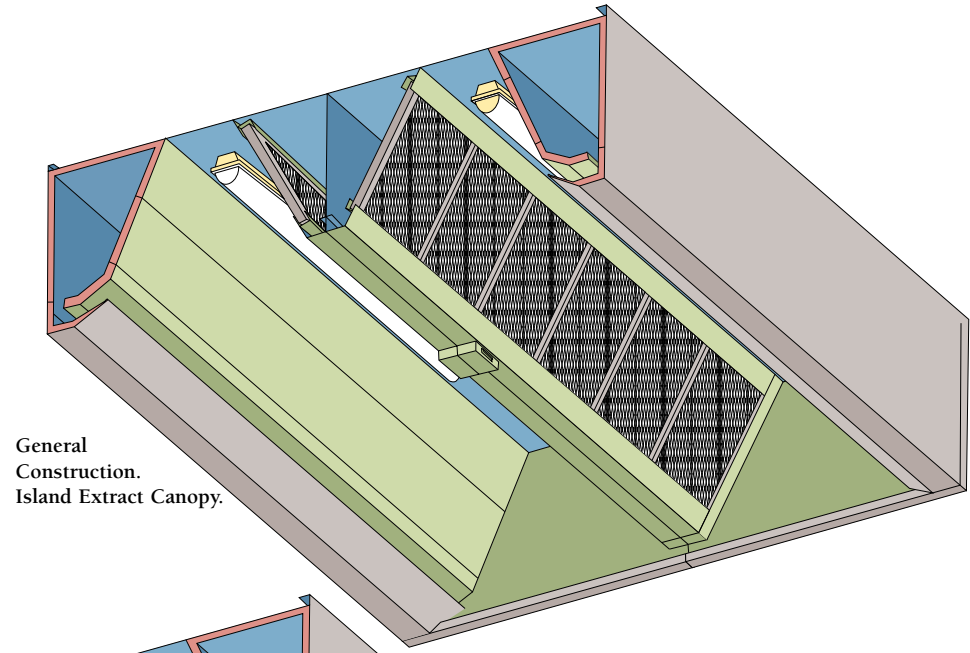
## Inductovent Canopies

**Construction**  
An insulated supply air plenum is fitted along the length of the canopy sides, with a venturi slot to induce localised air into the filters.

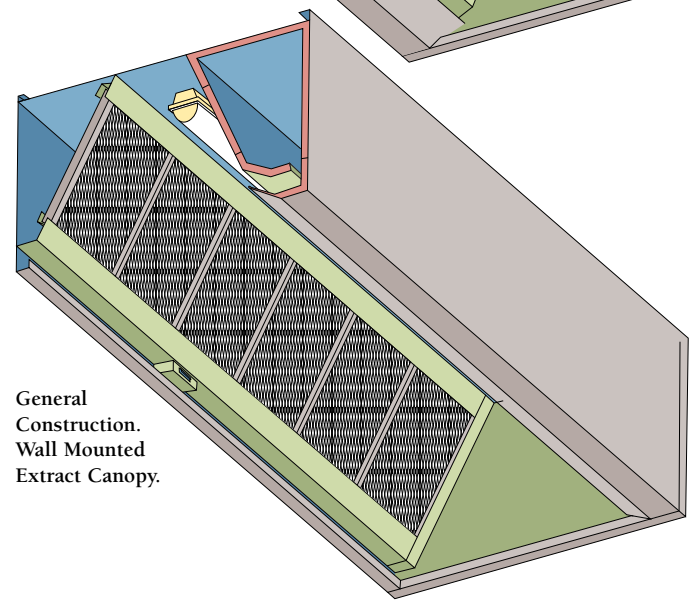
**Grease Filters**  
Grease and condensation collection filters are easily removed for cleaning without the aid of tools. Stainless steel baffle, stainless steel mesh and aluminium mesh versions are available.

**Light Fitting (optional)**  
**Recessed or Surface Mounted**  
A hermetically-sealed (IP65) light fitting may be installed in the top of the extract canopy. A pre-wired light switch is incorporated on the end of the canopy where lighting is included.

**Automatic Fire Suppression System (optional)**  
A fire suppression system may be incorporated to protect the canopy, ductwork connections and hazardous items of cooking equipment.



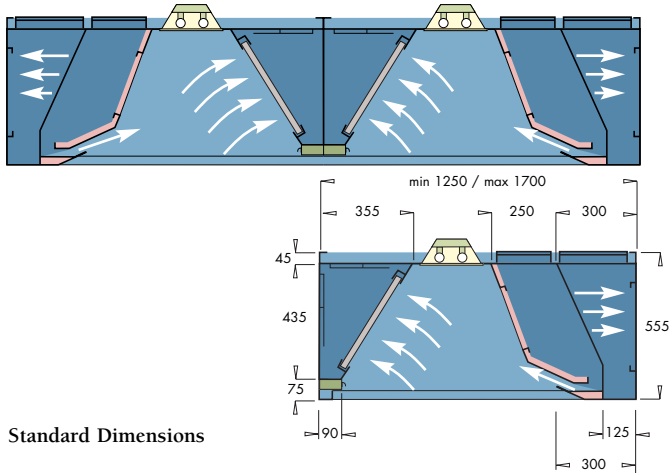
General Construction. Island Extract Canopy.



General Construction. Wall Mounted Extract Canopy.

# Inductivo Aircomfort Canopies

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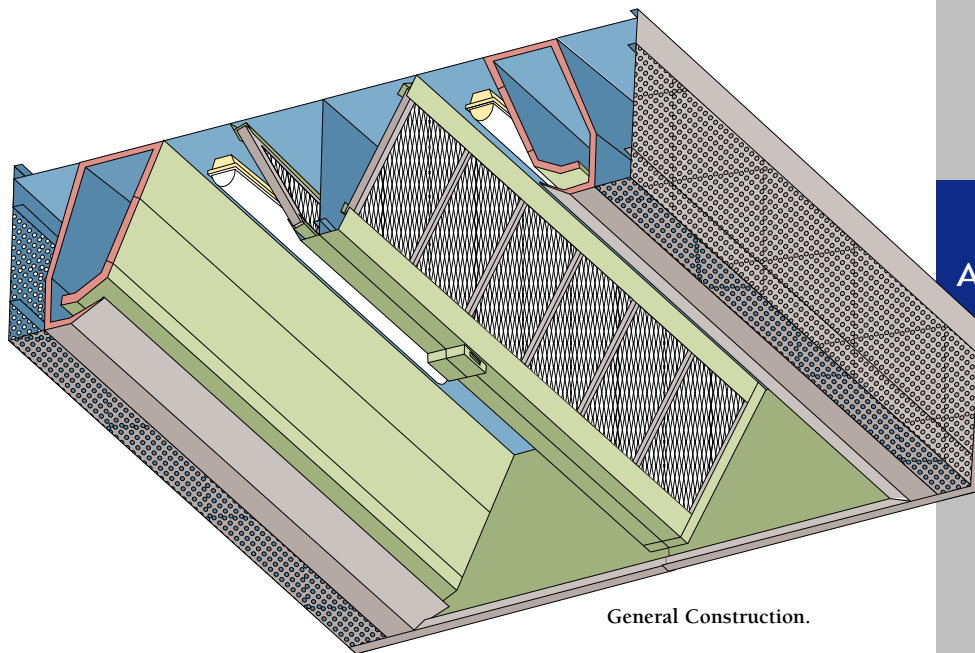
Standard Dimensions



## Application

Provides the benefits of Inductovent with the added benefit of room supply air.

## Inductivo Aircomfort Canopies



General Construction.

## Construction

An insulated supply air plenum is fitted along the length of the canopy sides, with a Venturi slot to induce cooking fumes into the filters. A further room air supply plenum, constructed of perforated stainless steel, is fitted along both sides of the canopy.

## Grease Filters

Grease and condensation collection filters are easily removed for cleaning without the aid of tools. Stainless steel baffle, stainless steel mesh and aluminium mesh versions are available.

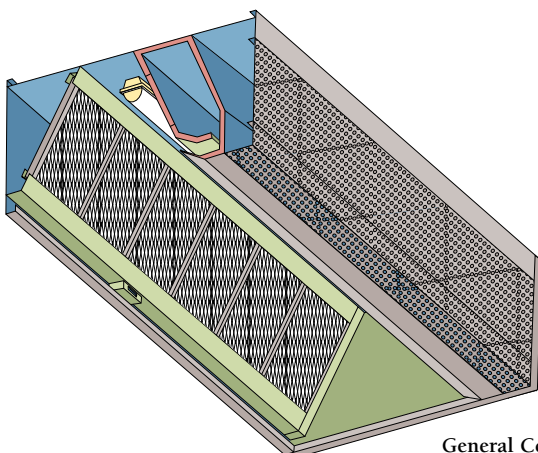
## Light Fitting (optional)

### Recessed or Surface Mounted

A hermetically sealed (IP 65) light fitting may be installed in the top of the canopy. A pre-wired light switch is incorporated on the end of the canopy where lighting is included.

## Automatic Fire Suppression System (optional)

A fire suppression system may be incorporated to protect the canopy, ductwork connections and hazardous items of cooking equipment.



General Construction.

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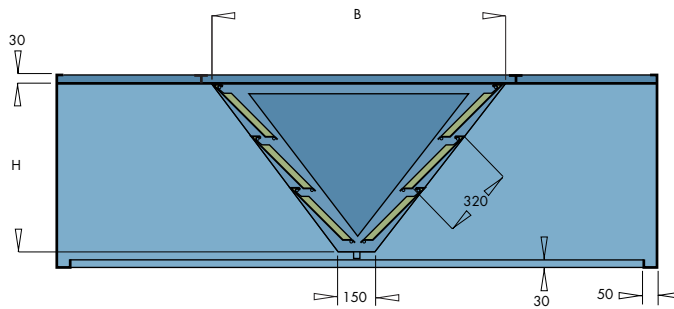
# Condensation Canopies



## specification

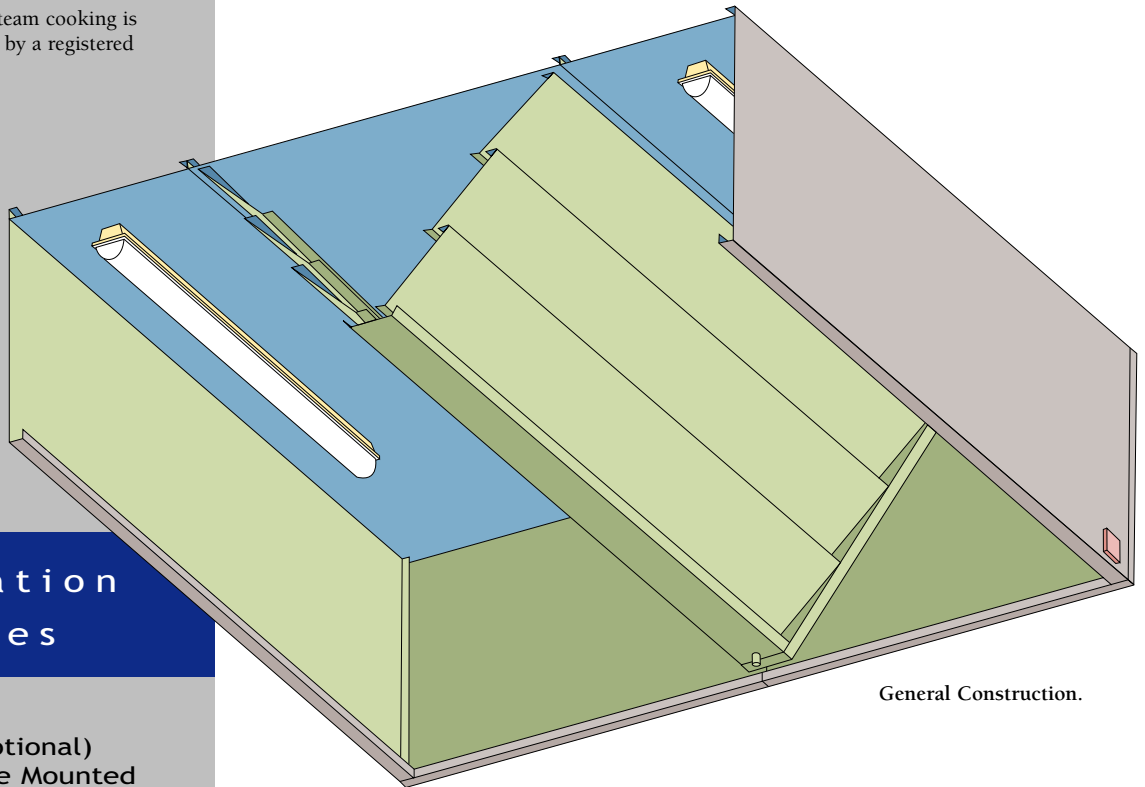
Model	No of condensation plates	Width of steam collector (B)	Height of steam collector (H)
320/2	2 x 2	937mm	520mm
320/3	2 x 3	1269mm	745mm
320/4	2 x 4	1608mm	972mm

### Standard Dimensions



### Application

Where heavy duty boiling or steam cooking is required. The unit is protected by a registered design No. 09000356.



General Construction.

## Condensation Canopies

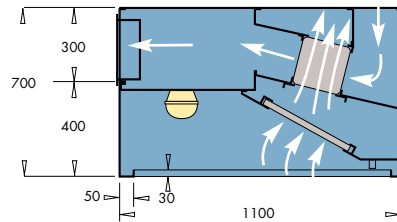
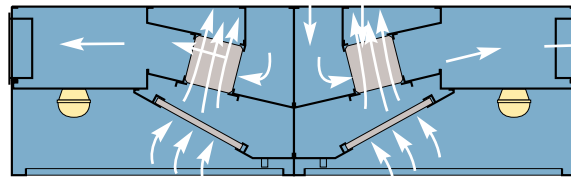
### Light Fitting (optional) Recessed or Surface Mounted

A hermetically-sealed (IP65) light fitting may be installed in the top of the extract canopy. A pre-wired light switch is incorporated in the front of the canopy where lighting is included.

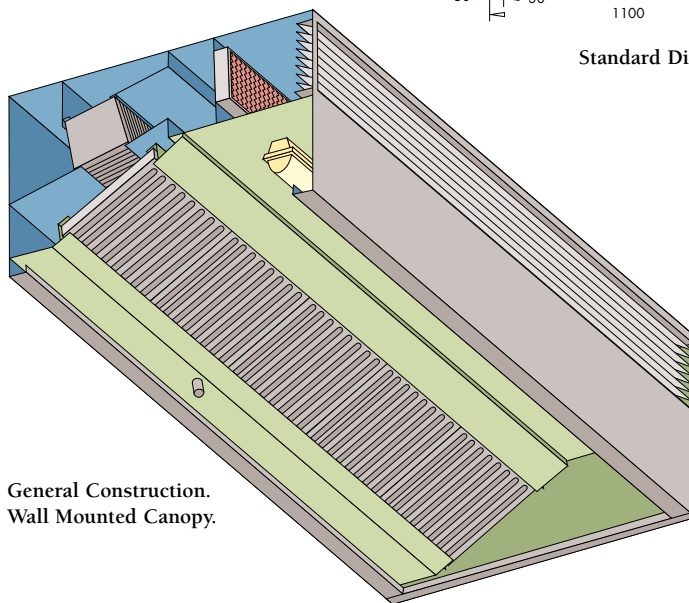


# Recupovent Canopies

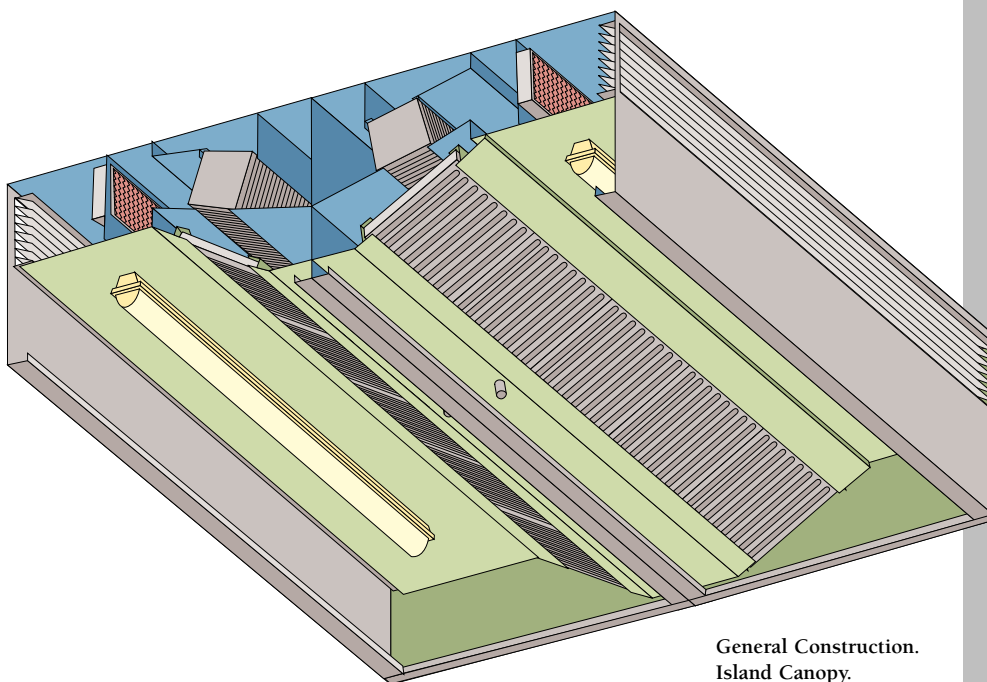
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Standard Dimensions



General Construction.  
Wall Mounted Canopy.



General Construction.  
Island Canopy.



## Application

Transfers heat from extracted air to room supply air, either within kitchen or to other areas. The unit is protected by a registered design.

## Recupovent Canopies

### Grease Filters

Grease and condensation collection filters are easily removed for cleaning without the aid of tools. Stainless steel baffle, stainless steel mesh and aluminium mesh versions are available.

### Light Fitting (optional)

#### Recessed or Surface Mounted

A hermetically-sealed (IP65) light fitting may be installed in the top of the canopy. A pre-wired light switch is incorporated in the front of the canopy where lighting is included.

### Heat exchangers

The removable plate heat exchangers are of the crossflow type and are made of flat corrosion-resistant aluminium. Dimensions: 200 x 200 x 400mm.

### Heating coil (optional)

#### Supply air diffuser (optional)

#### Automatic Fire Suppression System (optional)

A fire suppression system may be incorporated to protect the canopy, ductwork connections and hazardous items of cooking equipment.

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# Ventilated Ceilings

## Modular Ventilated Ceilings

### Application

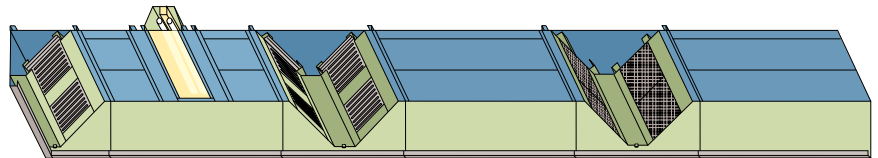
The installation of an AISI 304 grade stainless steel ventilated ceiling at a competitive price is achieved by utilising a wide range of standard length extract and perforated supply plenums and recessed light fittings. Custom-made infill panels and trim are used to fit the ceiling wall-to-wall. The system is designed to suit most commercial kitchen environments.

The De Kobra modular ventilated ceiling system has been designed specially for the UK market and makes the installation of a complete stainless steel ceiling viable for all types of catering operation.

## Bespoke Ventilated Ceilings

### Application

For the ultimate in kitchen environmental control, each ceiling is individually designed by De Kobra exactly to suit the cooking processes.



Typical Construction.  
Bespoke Ventilated Ceiling.



Typical Application.  
Bespoke Ventilated Ceiling.

## Cassette Ventilated Ceilings

### Application

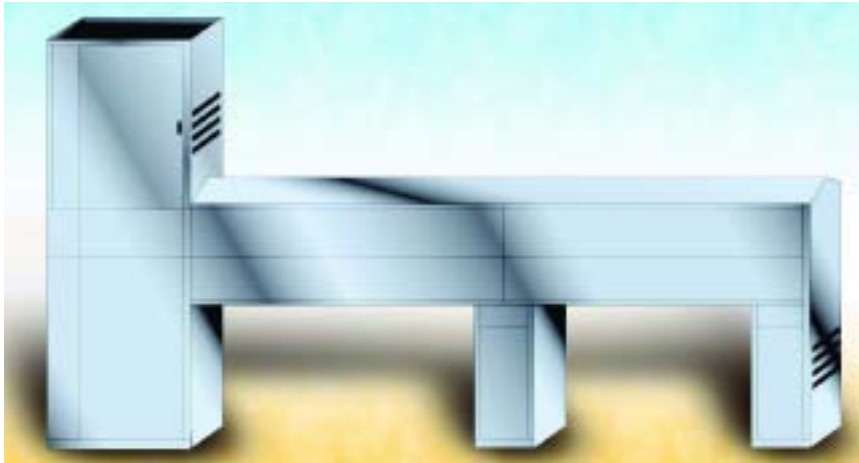
A fully integrated demountable ceiling system which can be dismantled for cleaning without the use of tools. The system utilises twin shell construction extract cassettes, supply air cassettes and blank cassettes which are 500mm square, lightweight and can easily be removed for cleaning in a commercial dishwasher. All visible grid components and modules are manufactured from 304-grade stainless steel. The finish may be of stainless steel or colour powder-coated or a combination of both. Sealed, integrated fluorescent lighting units are incorporated and provide an overall 500lux at work surface height.



Typical Application.  
Cassette Ventilated Ceiling.

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## Services Distribution System

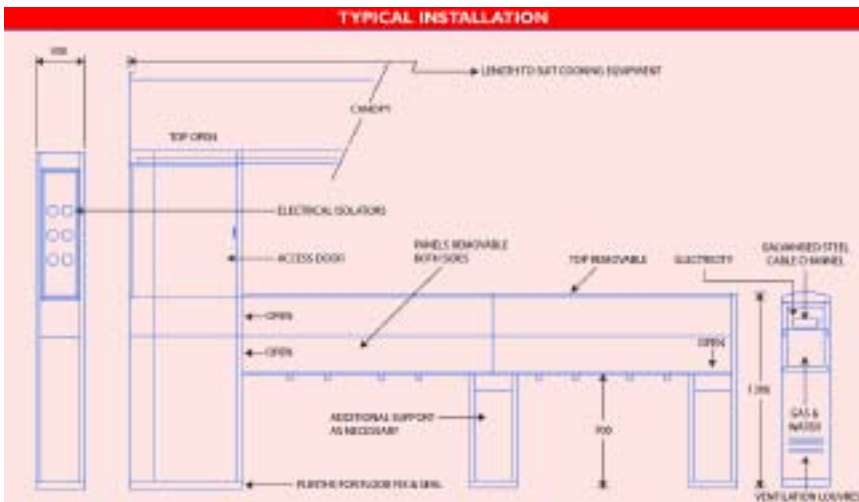


The Weatherite DeKobra (WDK) Distribution System provides a cost effective, efficient and labour saving method of supplying utilities for all types of commercial kitchen equipment.

The system is designed to suit almost any application, providing gas, electricity, hot and cold water.

The system is also designed to permit easy removal/re-arranging of equipment, negating the need for costly re-wiring or plumbing. Additional equipment is easily catered for within the system.

Instead of having exposed wiring and plumbing pipes, the WDK system provides hygiene and safety.



## Bespoke Canopies

### Application

De Kobra's many years of experience in commercial kitchen ventilation and furniture, combine to offer custom-built decorative canopies for front-of-house cooking operations or for domestic kitchens, built to the customer's own special requirements. A range of standard models is also available.



## Weatherite- the complete solution

Confidence in Weatherite Building Services' expertise in contract management leads many of our clients to take advantage of the other excellent products and services offered by the Weatherite Group when they call upon us for kitchen ventilation systems. Our turnkey kitchen ventilation packages can include not only bespoke control panels, fans and air handling equipment manufactured by the Weatherite Group of Companies but also electrical, gas and building services works.

### The Weatherite Group of Companies:

Weatherite Building Services Limited  
Weatherite Manufacturing Limited  
Weatherite Service & Maintenance Limited  
Weatherite Electrical Limited  
Weatherite Shopfronts & Shutters Limited

### Contact us:

Contact us at either of the addresses below to find out more about what the Weatherite Group's one stop shop can offer and to arrange for a Group presentation specially tailored to your needs, or visit our website on [www.weatherite-group.com](http://www.weatherite-group.com)



WORKING TOGETHER  
IN PARTNERSHIP



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