

Refresh

Recirculation Unit



The self contained kitchen ventilation system that needs no direct ductwork connections to atmosphere

NOMINAL DIMENSIONS							
Refresh Model Number	17/25	21/29	24/32	27/37	31/41	34/44	38/48
Dimension A Open canopy length to accommodate cooking equipment	1700	2100	2400	2700	3100	3400	3800
Dimension B Overall length of Refresh unit including tower and end panel	2495	2895	3195	3690	4090	4380	4790
Dimension C Tower width	755	755	755	950	950	950	950
Maximum air movement m³/s	0.6	0.6	0.6	1.2	1.2	1.2	1.2
Electrical Supply	400V, 3 phase, 50Hz						
Starting current	20.5A	20.5A	20.5A	37A	37A	37A	37A
Full load current	3.4A	3.4A	3.4A	6.5A	6.5A	6.5A	6.5A
Motor rating	1.5kW	1.5kW	1.5kW	3kW	3kW	3kW	3kW

Britannia provide a wide range of kitchen ventilation solutions covering conventional ventilation canopies, custom designed to suit your project exactly. we also offer *Ultrastream*, our UV filtration system which removes grease and odours, reducing maintenance visits and fire risk. *Refresh*, our self contained kitchen ventilation unit and two types of ventilated ceiling, *Heydal* and *Silverline*.

Our technical support includes free, no obligation design advice and our free CIBSE approved technical seminar on kitchen ventilation design, detailing latest developments and specifications within our industry.

If you need any help or advice on any aspect of our products, please call our sales team on 08450 760390, or take a look at our comprehensive website for further information.



Britannia Kitchen Ventilation Ltd

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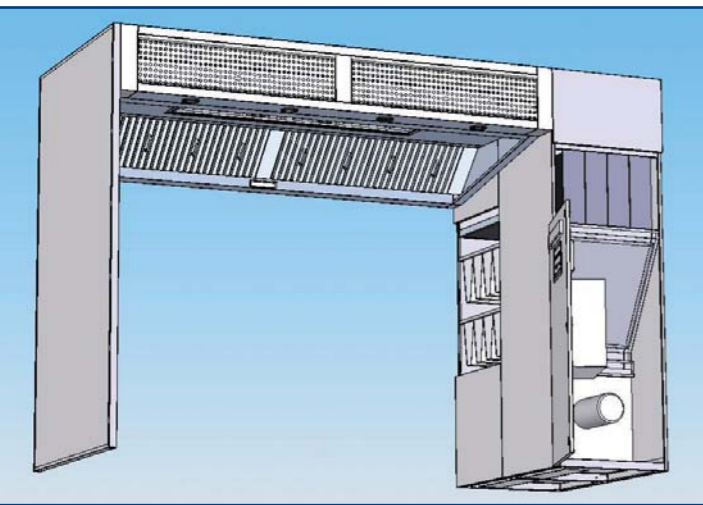
Phone 08450 760390 Fax 08450 760391 sales @kitchen-ventilation.co.uk www.kitchen-ventilation.co.uk

Our policy is one of continuous improvement and we reserve the right to change sizes & specifications at any time and without notice



Refresh is a self contained kitchen ventilation unit that comprises an extract and supply canopy with a dedicated services tower at one end. The tower has an integral fan unit and additional stages of filtration to clean the air before being introduced back into the kitchen.

- Ideal for use where ductwork cannot be installed
- Freestanding unit quickly installed into building
- No wall or roof penetrations required
- Integral services tower with multistage filters and fan
- No direct ductwork connections to atmosphere
- Integral filter monitoring package
- Optional rear splashback wall cladding
- Wide range of sizes and extract volumes
- Keeps fire risk contained within kitchen



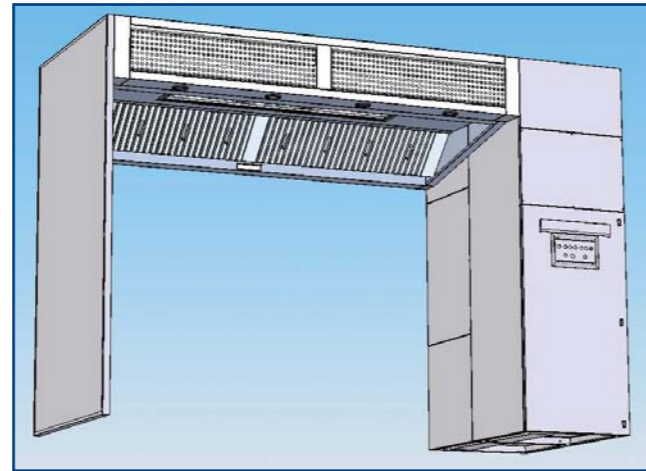
Important Notes:

Due to the requirements of gas regulations, Refresh units can only be used over electrically powered cooking equipment.

Refresh does not include equipment to reduce the extracted air temperature, therefore consideration should be given to provide cooling within the kitchen area.

Whilst the unit does not directly require ductwork to atmosphere, it is good practice to provide some background ventilation within the kitchen.

Refresh is ideal for use over light to medium output cooking equipment such as induction cookers.



Principle of Operation

Contaminated air from cooking appliances is filtered first by the Superstream baffle grease filters located in the canopy to remove the vast proportion of the grease from the airstream.

Using the power of the internal fan in the tower, the air is then drawn out from the canopy and through the tower assembly and passed through four additional stages of increasing efficiency filters, to remove remaining grease before going through carbon filter elements to reduce odours.

Filtered air is then reintroduced into the kitchen through the supply diffuser on the front of the canopy.

Filters within the system are as follows:

- Stage 1 Stainless steel baffle type grease filters
- Stage 2 G3 - 80-90% arrestance
- Stage 3 F6 - 60-90% DSE
- Stage 4 F10 - 90-95% DSE
- Stage 5 Activated Carbon filter units

Features

- Integral extract fan with multi stage settings
- Operational noise levels minimised by insulated tower
- Integral recessed fluorescent lighting providing 500 lux on the working surface below
- Services tower can be located at either end of the unit
- Supplied with 5 metre cable fitted with 3 phase connection plug
- Filter monitoring package to monitor lifespan of filters in the tower
- Comprehensive operation and maintenance manual
- Spare filter elements available ex-stock from Britannia
- Maintenance contracts available from Britannia



Photograph details:

- Top* Refresh unit complete with fire suppression system at 41 Lothbury in London.
- Middle* Refresh unit with splashback wall cladding at Scottish Qualifications Agency in Glasgow
- Bottom* Refresh Unit with infill panels up to structure above at British Medical Association in London

Filter Monitoring Package

The controls package provides two facilities. First it controls fan speed by a series of operator comfort control buttons (low, medium and high). Secondly it provides an audible and visual indication of the life limits of the four stages of disposable filtration within the services tower.

The system also provides an automatic shut-down if filters exceed 120% of life expectancy.



New improved control panel detail for 2008

Optional Features

- Stainless steel splashback wall cladding
- Wet chemical fire suppression system
- Infill panels up to structure above

Splashback wall cladding

The rear wall behind the cookline can be clad in stainless steel to provide an easily cleanable fire resistant surface.

Wet Chemical fire suppression

The canopy section can be protected with an Ansul R102 fire suppression system, a self contained detection and suppression system incorporated within the canopy section of the unit.

Infills up to the structure

Infill panels are available to close gaps above the refresh unit, as can be seen on the BMA photograph to the left.

Recent Projects using Refresh Units

- Walsgrave Hospital - Coventry
- BBC - London
- Scottish Qualifications Agency - Glasgow
- Noto Restaurant - London
- Hertz Headquarters - Uxbridge
- Dalton Strategic Partnership LLP - London
- Schroders - London
- Forensic Sciences - Lambeth
- Terminal 5 - Heathrow Airport - London
- Harbour Project - Milford Haven
- JP Morgan - London
- Winguard Hall - Stockton on Tees
- Bacardi Global - London