

Appendix A - Information Required to Support Planning Applications for Commercial Kitchen Exhaust Systems

This form has been developed in line with the Guidance on the Control of Odour and Noise from Commercial Kitchen Exhaust Systems – DEFRA 2005

The following points from the guidance should be adhered to:

- The aim of any ventilation/extraction is to ensure that no nuisance, disturbance or loss of amenity is caused by odour, fumes, food droplets or noise to nearby properties.
- A suitably qualified and experienced person with specialist knowledge of ventilation schemes should undertake the design and installation of a ventilation system.
- In circumstances where the end user of the premises is unknown, or where the specific type of food to be cooked is unknown, the installation should be designed to achieve the highest level of odour control in order to cater for a worst case scenario.

Information Required:

1. Information on Premises - No of meals to be served per day. - Method of preparation and cooking. - Type of food served.	Approximatley 75-100 meals per day. Electric Panini Grills, Contact Grills, Combi-oven. Deli sandwiches & salads, Panini grilled sandwiches, Antipasto, pies, bread & cheese etc.
2. Plans and Drawings - Scaled plan showing internal arrangement of premises and dimensions/location of the ventilation system. - Scaled plan showing dimensions and route of external exhaust duct work. The location and type of all filters and the location of the fan must be clearly marked.	Refer to Dwg No. KDSAD06 Plans as Existing and Proposed. LINCAT L4 Electric Fume Filtration Units are to be installed over the electric cooking equipment, providing a The three part filter system comprises a washable aluminium mesh for removing large grease particles; a washable foam layer which absorbs fine grease particles; and a replaceable activated charcoal filter.
3. Pre-filters - Copy of manufacturer's product data sheet. - Dimensions and nature of pre-filter media. - Manufacturer's recommendations on frequency and type of maintenance.	Refer to: LINCAT L4 Specification Sheet, LINCAT L4 Installation, Operating and Servicing Instructions manual, LINCAT L4 product brochure.
4. Electrostatic precipitators (where proposed) - Copy of manufacturer's product data sheet. - Dimensions of ESP and flow rate rating. - Manufacturer's recommendations on frequency and type of maintenance.	Not Applicable.
5. Carbon filters (where proposed)	Refer to: LINCAT L4 Specification Sheet.

- Copy of manufacturer's product data sheet. - Dimensions on filter panel. - No. of filter panels in filter bed. - Nature of carbon (including product type). - Frequency of replacement of units. - Dwell time.	Refer to: LINCAT L4 Specification Sheet, LINCAT L4 Installation, Operating and Servicing Instructions manual, LINCAT L4 product brochure.
6. Odour counteractant or neutralizing system (where proposed) - Copy of manufacturer's product data sheet. - Counteractant or neutralizing chemical to be used. - COSHH data sheets for chemical to be used.	Refer to: LINCAT L4 Specification Sheet, LINCAT L4 Installation, Operating and Servicing Instructions manual, LINCAT L4 product brochure.
7. Cooker Head - Length the cooker hood overhangs the appliances.	210mm
8. System operation - Extract rate in m3/s	Volumetric flow rate per fan: 230 m3 per hour Volume of air filtered per hour: - 690 m3 (L4)*
9. Flue Design - Height and velocity of final discharge. Discharge should be min. 1m above roof ridge level. Where this is not possible additional filters will be required. Final discharge should be vertically upwards and unimpeded by flue terminals.	Not Applicable - No Flue or external ducting required.
10. Maintenance Schedule of maintenance must be provided including details for: - Cleaning of washable grease filters. - Frequency of inspection and replacement of all filters proposed. - Inspection and servicing of fans.	Refer to: LINCAT L4 Specification Sheet, LINCAT L4 Installation, Operating and Servicing Instructions manual, LINCAT L4 product brochure. LINCAT IS346 Installation, Operating and Servicing Instructions Maintenance & Cleaning Schedule: Aluminium Filter - cleaned on a weekly basis Charcoal Filter - replaced every 3-6 months Foam Filter - replaced every 3-6 months.

Additional Notes:

- Air inlets must not permit pests to enter kitchen (e.g. fly screens can be used).
- The method for supplying make up air into the kitchen must not result in its contamination (e.g. separate provision must be made for ventilation of a toilet).
- There must be sufficient access points to permit adequate cleaning of all the ductwork.

Fume Filtration

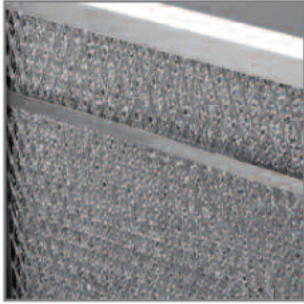
Lincat's fume filtration units are the ideal companion to Lynx 400 and Silverlink 600 electric appliances. The three part filter system comprises a washable aluminium mesh for removing large grease particles; a washable foam layer which absorbs fine grease particles; and a replaceable activated charcoal filter. These essential kitchen items reduce grease deposits and remove cooking odours to create a clean and fresh working environment.



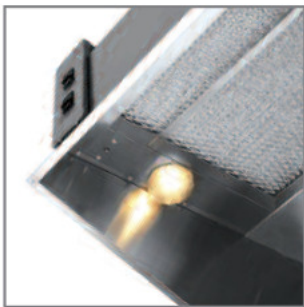
L4

Features

- Powerful centrifugal fans draw cooking fumes through a three part filtration system
- Cleansed air is expelled at top rear of unit
- Hinged top panel gives easy access for cleaning and filter maintenance
- Overheat protection system cuts power to fans in the event of a cooking appliance fire
- Suitable for use above electric appliances with a maximum depth of 600mm (Note: Not suitable for use with gas appliances.)



Aluminium mesh filter



Integral lighting



L4



L3

Technical Specifications

- Volumetric flow rate per fan: 230 m³ per hour
- Volume of air filtered per hour:
 - 460 m³ (L3)*
 - 690 m³ (L4)*
- Recommended mounting height above appliance: 800mm

Product Code	Description	Height (mm)	Width (mm)	Depth (mm)	Power (kW)	Net Weight (kg)
L3	Fume Filtration Unit	545	915	610	0.35	26
L4	Fume Filtration Unit	545	1295	610	0.45	35

* Volume of air filtered through a new unit. This will decrease as the filters are used.



QUALITY GUARANTEED
You can choose Lincat products with confidence. All products in this leaflet are backed by the reassurance of a comprehensive UK twelve months parts and labour warranty.



**Lincat Limited, Whisby Road,
Lincoln LN6 3QZ,
United Kingdom**

UK Sales Tel: 01522 875500 UK Spares Tel: 01522 875510 UK General Tel: 01522 875555
UK Fax: 01522 875530 International Sales Tel: +44 1522 503250 International Fax: +44 1522 875530
Website: www.lincat.co.uk UK Sales e-mail: sales@lincat.co.uk International Sales e-mail: export@lincat.co.uk

Fume Filtration Units

Key Features

- Type: Electric
- Air re-circulation
- Three part filtration system
- Illumination
- Overheat/fire protection
- L3 suitable for use over electric units up to 9kW
- L4 suitable for use over electric units up to 14kW



L3

Construction

- Body: stainless steel grade 430
- Filters: Aluminium mesh and carbon

Available Options

- Choice of widths

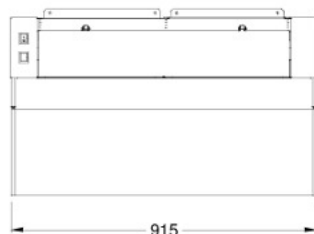
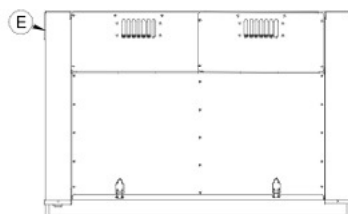
Available Accessories

- N/A

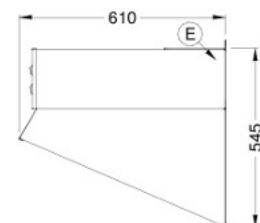
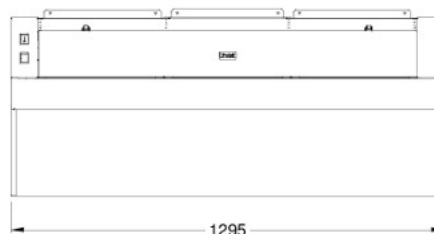
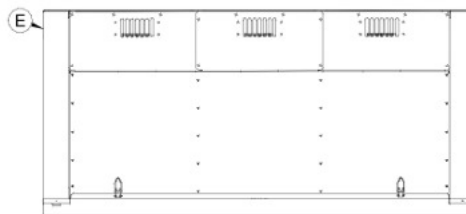
Specifications

Model	L3	L4
External height (mm)	545	545
External width (mm)	915	1295
External depth (mm)	610	610
Net weight unpacked (kg)	25	44
Volume of air filtered per hour (m ³)	460	690
Gross weight packed (kg)	31	50
Shipping volume (m ³)	0.497	0.657
Total electrical power rating (kW)	0.35	0.45
Electrical supply 1N~+E 230V 50-60Hz Current Rating (A)	1.5	2.0

L3



L4



Lincat Limited, Whisby Road,
Lincoln LN6 3QZ,
United Kingdom

UK Sales Tel: 01522 875500 UK Spares Tel: 01522 875510 UK General Tel: 01522 875555
UK Fax: 01522 875530 International Sales Tel: +44 1522 503250 International Fax: +44 1522 875530
Website: www.lincat.co.uk UK Sales e-mail: sales@lincat.co.uk International Sales e-mail: export@lincat.co.uk



Document ref:
FUMEFILTRATION
Issue date: Oct-09