



Health & Safety Laboratory
An agency of the Health & Safety Executive



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LEV working demonstration model

Technical details

- The model can be set up to run one or two hoods
- The source to be controlled by the LEV, is a smoke generator. The smoke cloud can be made directional using a small variable flow fan. The 'smoke' is more of a mist. It doesn't easily set-off smoke alarms
- Smoke visibility is enhanced with a low wattage halogen lamp

For larger audiences

If the model is used for audiences greater than 5 it is recommended you purchase the optional extra 'bullet' camera. This allows images to be projected onto a screen so that everyone can see the demonstration.

Price and payment details

The model can be purchased directly from Mechanical Products Ltd for **£1995*** (+vat and P&P).

Contact details are given below:

Bob Muirhead
Mechanical Products Ltd
The Barn
Pye Road
Heswall
Wirral
CH60 0DB

Telephone +44 (0)151 342 2206
E mail mechanicalproducts@ntlworld.com

*Price correct at the time of publication (May 2010)

If a picture paints a
thousand words...
...what price a live demonstration?



LEV working demonstration model

Product Overview

Local Exhaust Ventilation (LEV) is the most common way of controlling exposure to airborne dust, fumes etc – substances that can cause ill-health. It's there to protect people's health. Unfortunately, all too often, it is poorly selected, designed, applied and maintained, and doesn't protect people's health.

What's needed is a better understanding of how to apply LEV by:

- Employers selecting, buying and running LEV
- Employees using LEV
- Suppliers selling and designing LEV
- People assessing and examining LEV

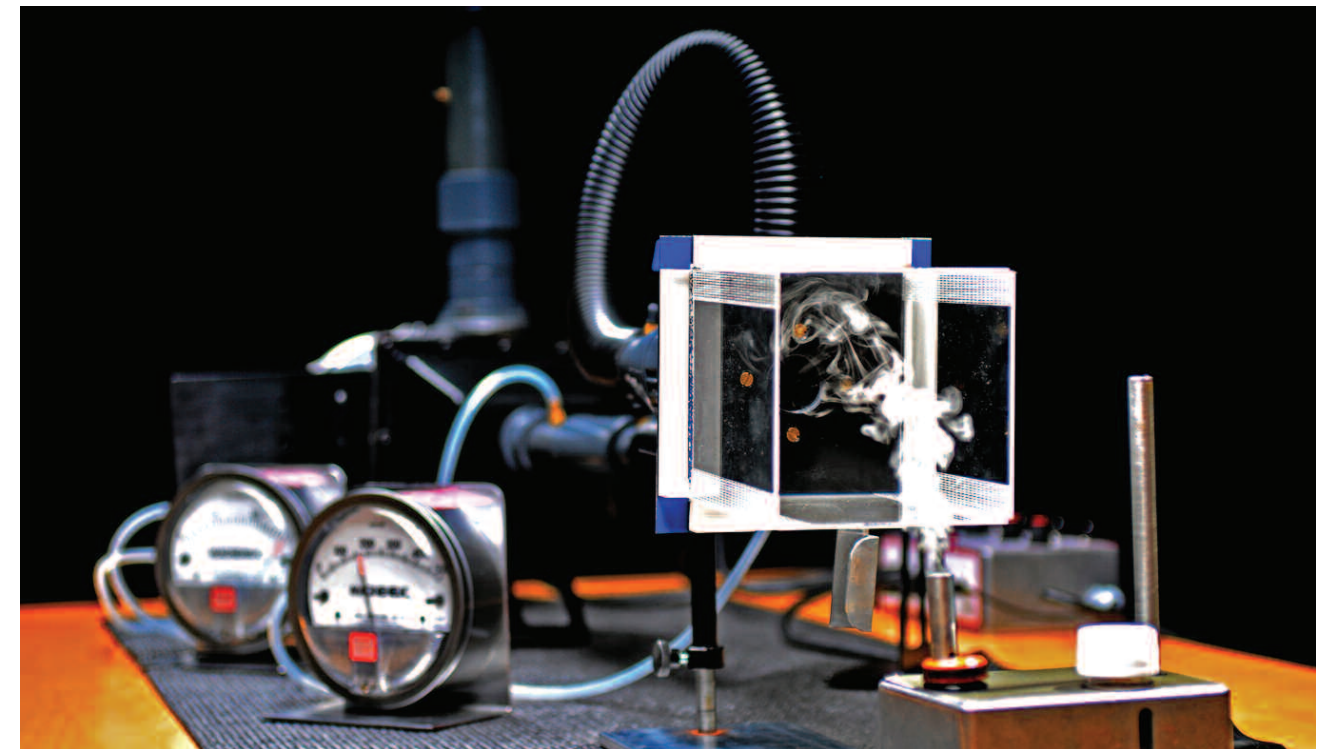
The LEV working demonstration model was developed by HSE and HSL to help do just this for all four audiences. Together with ground-breaking illustrative material the model has been central to UK HSE Inspector LEV training, employer road-shows, LEV awareness training courses and supplier events too. It's been an essential feature of HSE's campaign, together with the new LEV guidance, to improve LEV standards (See HSE LEV Website for details www.hse.gov.uk/lev/index.htm). And, when used with the new HSE LEV training material, it's a very powerful tool as users of the model can testify;

"The model is ideally suited to classroom demonstration and is readily transportable. It is both compact and flexible... and an ideal complement to the LEV training materials produced by HSE/HSL. These materials and videos came from extensive research and provide groundbreaking insights into the role and application of LEV."

Roger Alesbury (BOHS President and BP Group Director, Industrial Hygiene).

What you get

- A fully working model which demonstrates the essential design and application features of LEV systems
- A capability to show the key working principles of the three common types of LEV hood
- A package of unique, groundbreaking complimentary illustrative material
- Clear video instructions on assembly, and use
- Access to an 'owners network' to learn and swap lessons on model use



The Benefits

- Show graphically the key principles of LEV design and application using the working model and illustrative material
- Demonstrate the properties of the three common LEV hood types - Capturing, enclosing and receiving
- Show how to design an LEV system from first principles
- Measure volume flow rate by Pitot traverse and orifice-plate, and static pressure throughout the system, with pressure tapplings
- Ability to demonstrate how common faults and lack of maintenance can compromise the effectiveness of an LEV system, for instance, duct blockage