



Guide to LEV Testing (Local Exhaust Ventilation)



*“Protecting People
and the Environment
with Innovative Technology”*

WHO ARE WE?

Purex are based in Rotherham in the UK and have been established for over 25 years. Our cutting edge product development allows us to offer a complete line of dust and fume extraction solutions unlike any in the industry.

We are renowned for the quality and reliability of our technology and for our unrivalled customer support.

Our systems improve product quality, reduce process costs and protect the health of people and the environment.

APPLICATIONS

- *Laser Coding and Marking*
- *Continuous Ink Jet Coding and Marking*
- *Laser Engraving*
- *Wide Format Printing*
- *Dye Sublimation*
- *Reflow, Selective & Wave Soldering*
- *Manual Soldering*
- *Laser & Robotic Soldering*
- *Underfill & Conformal Coating*
- *Cleanrooms & Laboratories*
- *Education & Engineering*

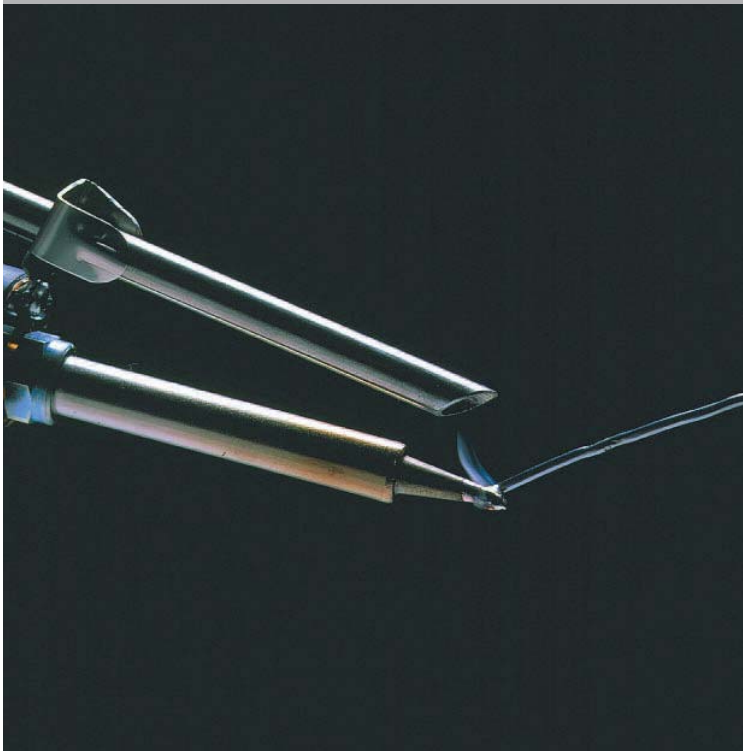


WHAT DO WE DO?

We manufacture high end dust and fume extraction systems, also known as LEV (Local Exhaust Ventilation). We also test and service the equipment in the field including equipment made by other manufacturers.

“We are the one stop shop for LEV”

When choosing Purex, you will receive excellent customer support, information including automatic annual LEV test reminders, 24/7 emergency phone support and our engineers are fully qualified to P601 or P602 level as per HSG258.



WHAT IS LEV?

LEV (or Local Exhaust Ventilation) systems are designed to prevent workers inhaling hazardous dust and fumes. To ensure the systems are functioning correctly they need regular testing by a qualified person.

Purex systems extract the dust and fumes from the process and filter hazardous material before returning clean, purified air to the workplace.



WHAT IS THE LAW?

In the UK, COSHH (Control of Substances Hazardous to Health) regulations 9.2 states that LEV control equipment must be tested:

“...in the case of local exhaust ventilation plant, at least once every 14 months...”

The law also states that it is the responsibility of the employer to ensure the health of the employees is not put at risk:

“An employer shall not carry out any work which is liable to expose any employees to any substance hazardous to health...”

There is a guide published by the Health & Safety Executive: HSG 258: Controlling airborne contaminants at work which Purex strictly adhere to when installing, testing or servicing LEV equipment.



CUSTOMER REVIEW

“I must say how impressed we were with the LEV test that your engineer carried out here the other day. He spent a considerable amount of time not only testing the system but helping us to optimise the system in areas that were causing concern. This was the most thorough test it has ever had. Thank you and well done!”

**Colin Gravenor - Head of Orthodontic Speciality
Morrison Hospital**



HSE CASE STUDY

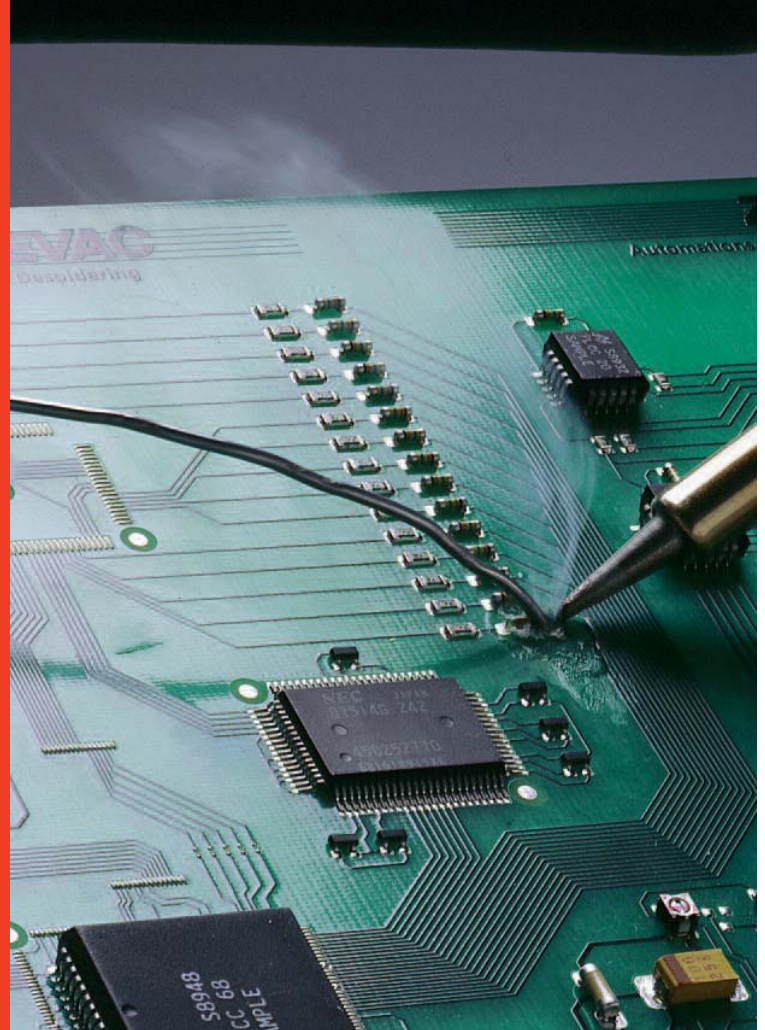
An operator who worked at a large manufacturer in Gloucester developed asthma whilst working there between 1995 and 2004 due to inadequate control measures.

The operator was employed as a solderer and was exposed to rosin based (colophony) solder fume during his career. From 1999 onwards he was taking time off work due to breathing difficulties as his health was deteriorating.

The company did not have adequate control measures in place and failed to install fume extraction to remove the fumes. The employees were not placed under any health surveillance scheme at any time, including the asthma sufferer.

The company was fined £100,000 with £30,000 costs as a result of action taken by HSE. This attracted local and national media attention.

Source - UK HSE



WHAT IS COMMISSIONING?

All LEV equipment should be commissioned by a suitably qualified person.

Whether your system is being newly installed or relocated, it should still be commissioned.

Purex engineers are P601 or P602 certified, so who better to choose for quality and reassurance?



WHAT IS SERVICING?

Servicing is required to ensure that machines are functioning efficiently and effectively.

If there are any problems with the machine we will notify you immediately as it could cause a health risk. We will try to give you the solution to ensure you are able to rectify it as soon as possible and advice on what to do next.

If your insurance company carries out your LEV tests they will not usually carry out a service on your equipment. If this is the case, we can do this for you.

WHY DO I NEED IT?

Servicing of machines is a necessity! Regular servicing of a machine helps to reduce the chance of breakdowns which could lead to expensive downtime. We don't just service Purex machines, we can service most fume extraction systems.

More importantly servicing a system is like a health check, you need to ensure it is working properly so your employees are not put at any risk.

WHAT DO WE DO?

- Check general condition of pipes, machines and hoods
- Clean the machine
- Check door seals
- Check filter seals
- Check correct filters are being used for the application
- Replace filters (if required)
- Test all machine functions
- Check wiring and electrical functions
- Carry out airflow checks

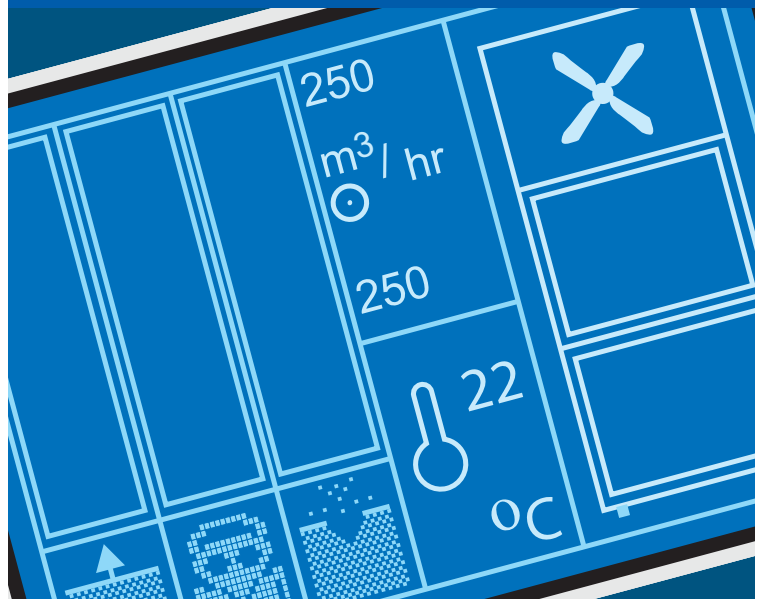


Occupational Hygiene Monitoring

Many substances are harmful to health if they are present in the air above a certain concentration - as set out in the EH40 workplace exposure limits. If you are concerned, Purex can arrange to have the air in your workplace monitored and provide a report showing if a certain substance is present and at what level. This can include:

- Monitoring for substances based on an MSDS
- Personal monitoring i.e. operators wear the sampling equipment
- Monitoring all day or during a shift pattern

Contact us for more information.



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