

## BENEFITS OF PUREX LOCAL EXHAUST VENTILATION



### SAFETY

Fumes can contain harmful particles, vapors, and gases causing health concerns. Purex Fume Extractors use multi-stage filtration to remove harmful fumes and return clean air back to the working environment.



### COST

Local fume extraction does not require potentially expensive modification to the roof and structure. Additionally, controlling air balance and heating loss through outside ducting results in added utility expenses. Fumes not properly handled lead to employee discomfort, increased healthcare costs, lost time at work and fines.



### ENVIRONMENT

Fumes dissipated by fans or exhausted outside are still harmful and can re-enter the facility through vent doors and windows. Filtration is the only way to remove harmful fumes. Unfiltered, exhausted vapors can also affect neighboring business, schools and homes.



### CONSISTENCY

Purex Fume Extraction equipment maintains a steady volume of air flow. Outside winds and atmospheric pressure changes can impact the airflow from a facilities exhaust system, negatively impacting certain processes and the rate at which fumes exit the facility.



### LOCAL LEGISLATION

Many local laws prevent exhausting of fumes to the outside environment or require expensive and time prohibitive permitting.



### FLEXIBILITY

Processes that exhaust through hard piping to the outdoors are difficult to relocate. Purex Fume Extraction units are easy to move, making the process more portable.



# Fume Extractors for Electronics Manufacturing Processes

The soldering process itself can produce some, if not all, of the fumes in the list below. These fumes can cause occupational asthma, long term carcinogenic diseases and other serious complaints. The result of these illnesses can be expensive compensation claims from employees, long term sickness and poor employee relations, plus heavy penalties from enforcement agencies.

- Carbon Monoxide
- Volatile Organic Compounds (V.O.C)
- Abietic Acid
- Pimaric Acid
- Aliphatic Aldehydes
- Hydrochloric Acid
- Isocyanates
- Isopropyl Alcohol

Processes requiring fume extraction include:

- Reflow Ovens
- Selective Soldering
- Wave Soldering
- Hand Soldering
- Rework, Repair and Education
- Laser & Robotic Soldering
- Underfill
- Conformal Coating
- Printing
- Solvent Applications

## Purex Solution

Purex fume extraction systems are designed in conjunction with some of the worlds largest Contract Electronics Manufactures and Equipment Providers to help:

- Prevent damage to production machinery.
- Reduce downtime for cleaning and maintenance
- Protect personnel from harmful fumes.
- Reduce product rejects due to poor production performance.
- Maintain a constant extraction rate to ensure stable temperature profiles.
- Deliver long filter life.
- Interface with the production equipment

After initial consultation Purex engineers can visit a site free of charge to carry out a survey and to suggest suitable designs and solutions. Demonstrations and Trials are available upon request. Contact the our office at 800-405-1730 and speak to one of our technical sales team members.



Digital Systems



Analogue Systems



Cascade Inline Unit

