

The Xbase offers extra storage space for products, laser accessories and spare filters.



The All Round Extraction & Filtration Solution for Laser Fumes

## Fume extractor and work base for engraving lasers.

*Engraving lasers burn away layers of material such as glass, wood, rubber and metal in order to make an engraving. This process releases various gases, vapours and particles which can seriously affect the quality of an engraving and cause serious long term medical conditions if inhaled.*

The Xbase simply connects to the laser via a flexible hose and extracts hazardous fumes using powerful flow controlled blowers. The fumes are then drawn through a patented, specialised filter system before clean air is returned to the workplace.

The Xbase protects the health of the operator, improves the finish of the engraving, prolongs the life of the laser and ensures compliance with local and international health and safety regulations.



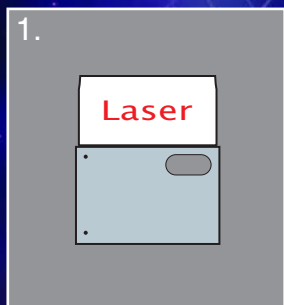
### Typical Applications

The Xbase is robust, fully mobile and extremely quiet. The patented Labyrinth™ filter in the unit lasts much longer and captures more dust than other types of filters on the market, thus delivering significant cost savings for the user in:

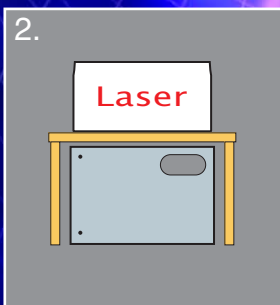
- Shops, Malls and Kiosks
- Schools and Colleges
- Engraving Workshops
- Craft Centres

### Features...

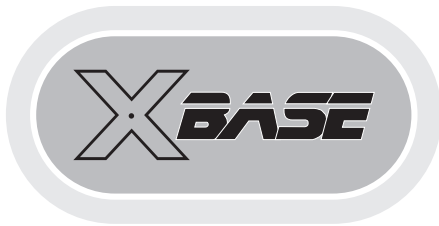
- Exceptionally low capital and running costs.
- Quick, simple and easy to set up.
- Easy to move around the workplace.
- Excellent filter life.
  - Whisper Stream™ - Extremely quiet in operation.
  - Automatic electronic flow control.
  - Speed control to adjust airflow.
  - VariColour™ Warning System.
  - Submicronic particle and gas filtration.
  - Robust stainless steel construction.



Sit the laser on top of your Xbase...



...or fit your Xbase under the workbench.



- **Protect Personnel**
- **Protect Your Laser**
- **Comply with Legislation**
- **Have a Cleaner, Safer Environment**

## The Problem

Fumes generated by laser engraving can damage expensive laser optics and cause beam attenuation leading to expensive product rejects. Machine contamination may also occur leading to increased downtime for cleaning. Also, stringent health & safety legislation and the increasing risk of 'no win - no fee' compensation claims all mean that protecting the operator with a laser fume filtration system is a sound investment.

## The Solution

The Purex Xbase™ extracts fumes from the laser process then filters out hazardous particles and gas using a unique 3-stage process before returning clean air to the workplace.



*You can sit your laser on top of the Xbase™ which means you don't have to buy an expensive stand or workbench !*

### Whisper Stream™ Technology

The Xbase™ features a powerful blower and silencing system that delivers excellent performance, maximum reliability and quiet operation. Ideal for areas where sound levels need to be low e.g. schools and shops.

### VariColour™ Warning System

To ensure the health and safety of employees, the VariColour™ system constantly monitors the condition of the filter and reports automatically.

- Green shows the filter is clean.
- Amber warns the operator when a replacement filter should be made ready.
- Red (along with an audible alarm) tells the operator when to replace the filter.

## Filtration

### Stage 1 - Labyrinth™ Pre-Filter

The purpose of a pre-filter is to protect the main HEPA filter from premature blockage by removing larger particles from the airstream. This quick change, patented filter technology is not available from any other manufacturer and is designed to overcome inherent weaknesses in pleated paper and bag filter design. This pre-filter has outstanding particle holding capacity to deliver long filter life and so keep your consumable costs low.

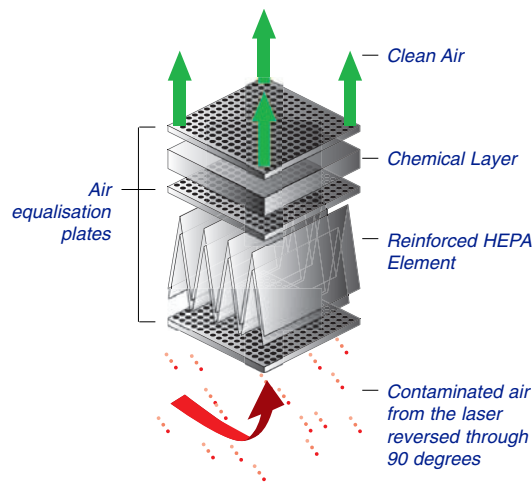
The small, lightweight and robust construction of this filter means your storage and shipping costs are minimal compared with other pre-filters. Also, problematic materials producing sticky, moist particles can also be handled safely and efficiently.

### Stage 2 - Submicronic HEPA Filter

Reinforced HEPA media is used in main filters to remove small hazardous particles from the airstream. Purex filters are proven in independent tests to capture 99.997% of particles at 0.3µm and 95% at 0.01µm in size.

### Stage 3 - Chemical Filter

A high performance deep chemical layer in the filter adsorbs toxic gas before clean air is returned to the workplace.



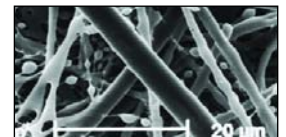
*Exploded view of a Purex Main Filter*



**Whisper Stream™  
Quiet Operation**



**VariColour™  
Warning System**



**H.E.P.A  
Submicronic Filter**



**Labyrinth™  
Patented Pre-Filter**

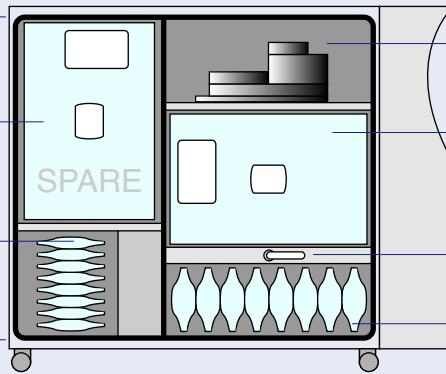


Quick, Easy Access to Filters.

Storage space for a spare main filter or other items.

Storage space for a spare Labyrinth™ filter or other items.

Air in from the laser at the rear.



Blower and electrics

Main HEPA / Chemical Filter.

Filter locking handle.

Labyrinth™ patented pre-filter.

## Upgrade packs for extra performance...



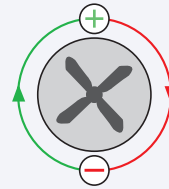
### Upgrade Pack 1 - Automatic Electronic Airflow Control

#### Speed Control

Set the airflow rate to the optimum level. Prevents engraving drag marks.

#### Flow Control

The Closed Loop Flow Control system automatically adjusts the speed of the motor to maintain a constant airflow throughout the life of the filter.



### Upgrade Pack 2 - Laser Interfacing

#### ON/OFF control

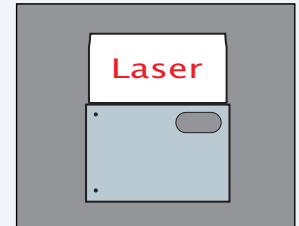
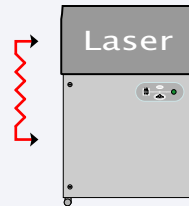
Extraction unit starts/stops when the laser is switched on/off.

#### Run on Timer

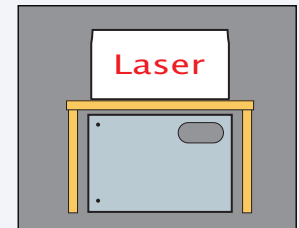
Extractor briefly runs on after laser is switched off to ensure all fume is removed.

#### Particle Filter Blocked Warning

A signal is sent to the laser to either trigger an alert or to shut down.



Sit the laser on top of your Xbase...



...or fit your Xbase under the workbench.



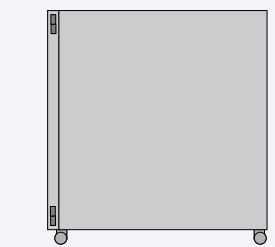
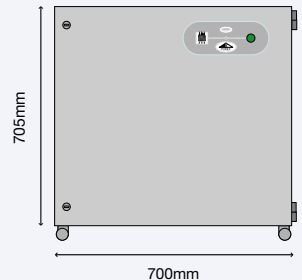
Extra Storage Space For Spare Filters



Compact and Fully Mobile



Easy Access to all Compartments



#### Specification

Unit	Xbase-200		Xbase-400	
Voltage	230V ±10%	120V ±10%	230V ±10%	120V ±10%
Part number	0AL2106	0AL2107	0AL4104	0AL4107
Wattage	0.14 kW	0.27 kW	0.24 kW	0.48 kW
Max flowrate	200 m³/hr	125 cf/m	400 m³/hr	235 cf/m
Weight	63.5 kg	63.5 kg	63.5 kg	63.5 kg
Sound rating	45 dBA	45 dBA	45 dBA	45 dBA
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz

Replacement Main filter (#110545) • Replacement Labyrinth™ pre-filter (#111104)

# Purex Product Range



## Datasheet 1

FumeCube™ multi purpose arm extraction unit for 1 or 2 users.



## Datasheet 2

SuperFlow™ multi purpose arm extraction unit for up to 50 users.



## Datasheet 3

Fume extraction arms and accessories.



## Datasheet 4

CleanCab™ extraction cabinets.



## Datasheet 5

FumeBuster™ multi purpose arm extraction unit for up to 4 users.



## Datasheet 6

Portable fume extractors for up to 10 soldering iron users.



## Datasheet 7

SuperFlow™ fume extractors for up to 50 soldering iron users.



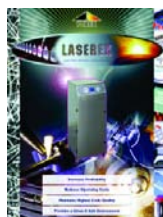
## Datasheet 8

Tip extraction accessories.



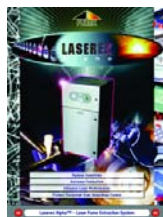
## Datasheet 9a

PowerFlow™ systems for wave and reflow soldering and other automated processes.



## Datasheet 9b

Laserex™ systems to extract fumes from laser marking, engraving, cutting and welding applications.



## Datasheet 9c

Laserex™ Alpha systems to extract fumes from light laser marking and engraving applications.



## Brochure

Contains pictures and specifications of all Purex systems.

Distributed by:

### UK

Purex International Ltd.  
Purex House, Farfield Park,  
Manvers, Rotherham, S63 5DB,  
England.  
T: ++44 (0)1709 763000  
F: ++44 (0)1709 763001  
Email: purex@purexLtd.co.uk

### USA

Purex Americas.  
1290 Lakeside Drive, Gurnee,  
Illinois 60031, USA.  
Tel: 866 360 5675 (Toll Free)  
Fax: 866 360 5676 (Toll Free)  
E: sales@purexamericas.com

Other products are available please call for further details.  
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