



FUMINATOR™

Fume Extraction Workstation

FXT300



Users Guide

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INTRODUCTION

In many industries today, the exposure to hazardous fumes is a growing problem. Colophony fumes from hand soldering operations are well documented as a primary cause occupational asthma within the electronics industry. When these fumes are removed from the operators breathing zone, the symptoms of sore eyes, runny noses and sore throats become a thing of the past. The fumes from the FXT300 are filtered and purified through a choice of filters depending upon the application, and the clean air is recycled back into the workspace, saving valuable heat or air conditioning loss.

The patented FXT300 is a user friendly fume extraction workstation that offers three types of extraction all in one unit. Once connected to an extraction source , the operator decides which form of extraction to use depending upon the application—(1) Downdraft Extraction (2) Cowl or Plenum Extraction (3) Twin or Single Arm Extraction.

The FXT300 has been designed to be used with an extraction source that complies with certain specifications. The EDSYN Model FX300 is the most popular choice. If the FXT300 is being connected to a different extraction source, please refer to the technical specifications for airflow recommendations. Failure to do so may result in poor performance or no extraction at all. The manufacturer or supplier cannot be held responsible for poor performance if the system is connected to other unknown extraction systems.

Always work on the central dissipative foam pad insert, as this ensures efficient extraction from either method chosen. These foam inserts are replaceable in packs of 5, available separately (Part No FXT300-1). A high temperature work plate insert is available to protect the unit from high temperature air.



FEATURES

- Three-in-one extraction options
- No complex installation required
- Easily moved to any bench
- ESD (Electro Static Discharge) safe
- CE Approved
- Quiet operation <55dBA @ 1 metre (3')
- Replaceable dissipative foam filter inserts
- Maximum Dimensions:
 - W 17.7" x L 22" H 5.9"
 - W 450mm x L 560mm x H 150mm
- Tool tray on top of cowl for hand tools
- Minimum workspace intrusion
- Positive location for each extraction option.
- User Friendly

SETTING UP THE WORKSTATION

Carefully unpack the unit and remove all packaging. Check for missing or damaged parts. If any part is found to be missing or damaged, please inform your supplier immediately. Position the workstation on a clean, flat surface or bench top ensuring there is a minimum clearance of 100mm (4") at the rear and to each side of the unit. Push one end of the flexible 75mm (3") diameter hose connector over the rear protrusion on the workstation. If this is found to be difficult, wet the cuff with water or a mild detergent. Direct the other end of the hose to the most convenient location towards the underside of the bench. This maybe to one side, towards the rear, or a hole can be drilled in the rear of the bench to accommodate the hose if required. Should the 1.5m (5') hose be too short, longer hoses or extension hoses are available from your supplier upon request.

If using the unit in an EPA (Electrostatic Protected Area), connect the unit to a common point ground earth point using the 10mm stud to the side of the unit. The unit is supplied with the flexible arms detached for transit purposes. If either one or both arms are required, simply push the connector end of the arm through the hole in the cowl and push onto the raised section of the moulding as far as possible. Slight lubrication will make this task much easier.

If using the FX300 pump and filter system, position this in a convenient location under or to the side of the bench. Push fit the hose connector onto either one of the two inlets. The other inlet should be covered with the cover supplied, unless a second workstation is being fitted to the other port - see page 4 under filtration options. If connecting to another extraction system, please refer to the technical specifications to ensure the correct airflow rates and pressures are available.

NOTE:

Always ensure a 75mm (3") hose is used to connect the workstation, as restricting this to anything smaller will invalidate any warranty and may effect performance. It is recommended that you consult your supplier if in any doubt.

For more information about the pump and filter unit supplied, please refer to the separate user guide supplied with the pump.

Connect the pump and filter unit to a suitable electrical power supply and switch the pump on.

USING THE WORKSTATION



To operate the system in this mode, grip the two moulded handles protruding from the sides of the workstation and move the sliding plate to the position marked as shown above. A spring ball latch will 'click' into place to confirm and hold the position. The Cowl and Arm options are automatically closed. In this mode, any fumes generated at the work pad will be drawn DOWNWARDS away from the operators breathing zone. The fumes are then drawn into the pump/filter unit and purified. The filtered air is then re-circulated into the workshop saving either valuable heat or air conditioning loss.

Typical Applications: Low profile products, Adhesive Application (fumes are often heavier than air), Liquid Dispensing Applications, Potting Compounds, Solvent Applications, Hand Soldering Applications.



To operate the system in this mode, grip the two moulded handles protruding from the sides of the workstation and move the sliding plate to the position marked as shown above. A spring ball latch will 'click' into place to confirm and hold the position. The Downdraft and Arm options are automatically closed. In this mode, any fumes generated at the work pad will be drawn BACKWARDS away from the operators breathing zone. The fumes are then drawn into the pump/filter unit and purified. The filtered air is then re-circulated into the workshop saving either valuable heat or air conditioning loss.

Typical Applications: Large or wide products for Adhesive Application, Liquid Dispensing Applications, Potting Compounds, Solvent Applications, Hand Soldering Applications.



To operate the system in this mode, grip the two moulded handles protruding from the sides of the workstation and move the sliding plate to the position marked as shown above. A spring ball latch will 'click' into place to confirm and hold the position. The Downdraft and Cowl options are automatically closed. In this mode, if the arms are connected, any fumes generated at the work pad will be drawn UPWARDS away from the operators breathing zone. The fumes are then drawn into the pump/filter unit and purified. The filtered air is then re-circulated into the workshop saving either valuable heat or air conditioning loss.

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If the arms are not required, simply remove them carefully from their location by pulling gently on the arm until it comes free. Should the arms become 'loose' or 'sag', they can always be tightened by carefully winding or screwing the arms between the hands in a clockwise direction. Do not over tighten as this will cause the arm to 'waist' and be too stiff to use.

Typical Applications: Small, localised extraction for Adhesive Application (fumes are often heavier than air), Liquid Dispensing Applications, Potting Compounds, Solvent Applications, Hand Soldering Applications. In this mode, one arm can be positioned over the work and one over the adhesive pot or soldering iron stand to capture stray fumes. Alternatively, the two arms can be positioned one each side of a vision system or microscope.

REPLACEMENT OF FILTER/WORK PADS (Part No. FXT300-1)

The work pad foam insert is a flame retardant, static dissipative EU3 non-woven polyester material, which has been specially chosen for its ESD properties and performance as a pre-filter. Over time, this pad will show signs of wear and is therefore replaceable. It is recommended to change this filter at least once every four to six weeks to ensure good extraction performance of the unit and to prevent a build up of daily dirt and debris.

To change the pad, simply remove it from the hooked pads by gently pulling it away from the base unit. Place the used pad in a polythene bag and safely dispose as domestic waste in EU, or refer to specific country regulations..

To replace the pad with a new one, place the filter pad with the coarse side down (smooth side up), and press down firmly on each of the four hook retainers. This will hold the filter in place and prevent any movement.

WARNING

DO NOT, under any circumstances try to wash, vacuum or reverse the filter, or use the system without a filter. Use only the recommended filters for the unit as the use of any other material will effect the ESD properties, flame retardant properties and filtration of the unit. The manufacturer or supplier will not accept any responsibility if these guidelines are not adhered to, as it will effect both product warranty and performance.

TECHNICAL SPECIFICATIONS

Maximum Dimensions:	L 560 mm (22") x W 450mm (17.7") x H 150mm (6")
Shipping Weight:	9.5 Kg (21 Lbs)
Shipping Dimensions:	L 670mm (26.4") x W 540mm (21.2") x H 255mm (10")
Base Material:	ESD Safe impact resistant ABS. Surface resistivity 10 (3) Ohms/Sq Steel base plate and sliding plate. Zinc plated and passivated
Flexi-Arms:	ESD Conductive Polymer. Surface resistivity 10 (3) Ohms/Sq Nozzles: Conductive ABS
Foam Insert Filter Pad:	Static Dissipative Non-Woven Polyester, Flame Retardant, Self Extinguishing. (Meets Furniture Fire Safety Regulations Act 1988) Carbon Weight 90g/mSq Surface resistivity: 10 (7) Ohms/Sq. Max Temp: 125 degrees C
System Connection Hose:	75mm (3") Dia x 1.5m (5') Antistatic PVC with Antistatic end cuffs
Dip moulded side handles:	Antistatic PVC
Earth Ground connection:	10mm male press stud
Min. Flow Rate required at outlet:	120 cu/m/hr (70 CFM)
Min. Static Pressure required at outlet:	500 Pascals (2" H2O)

The FX300 comes complete with economy particulate and gas filter for general use, but other filters are available depending upon your application — See next page.

● = Suitable for the application shown

<div style="text-align: right;">Recommended Filter Pack</div> <div style="text-align: left;">Typical Application</div>	Economy HEPA & Carbon Foam Filter Pack (Supplied as standard) XF300	Pre - HEPA-Gas Filter Pack 99.997% High Efficiency Particle Air filter –Class 100 XF2502	Pre-Gas filter pack only to increase absorption of chemical fumes and vapours XF2503
General Extraction - Fine Dust , Light Soldering or Small Adhesive applications	●	●	Not recommended
Soldering and light organic Chemical/Adhesive/Solvent applications	●	●	Not recommended
Heavier Organic Solvents/ Adhesives/Chemical applications only	Not recommended	Not recommended	●

Note: All above filter options are available for the FX300 pump and filter unit. Filter life is dependant upon usage but typically 3-9 months per workstation. Dispose of used filters as domestic waste in EU, or refer to specific country regulations. This product is not designed for the extraction of fumes from inorganic acid chemicals or petrochemicals.

Disclaimer: The manufacturer or supplier can not be held responsible for the misuse of the product if using inorganic solvents or acids, or highly flammable substances such as petrochemicals. The product is for use primarily in the electronics and associated industries only and is used entirely at the owners risk.

FXT-300 Fume Extraction Workstation

MAINTENANCE & REPLACEMENT PARTS

PART #	DESCRIPTION	COMMENT
XF300	Standard Filter Pack for FX300	Provides filtration to 95%
XF2502	High Efficiency Filter Pack for FX300	Provides filtration to 99.997% - Class 100
XF2503	Gas Filter for FX300	To remove odors from chemicals and adhesive
FXT300-1	Conductive Work Pad/ Pre-Filter for FXT300 (pkg of 5)	
FXA300	Replacement Extraction Arm for FXT300	
FXM7502	3" Replacement Flex-Hose	Sold Per Meter



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