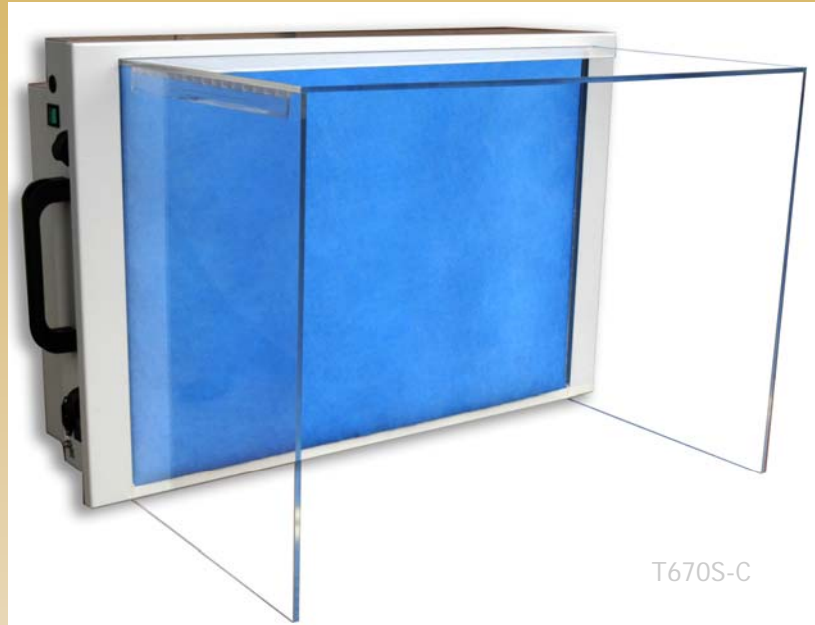


TechFlo Systems



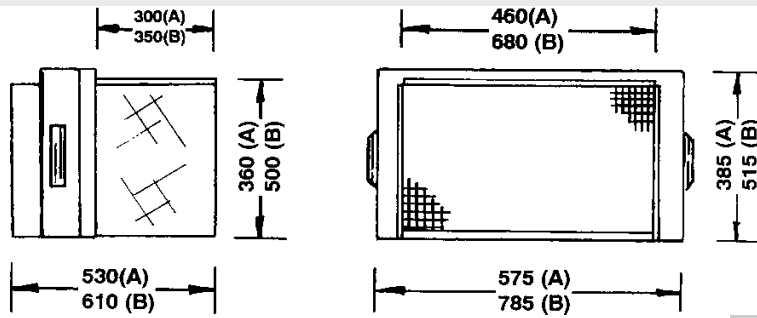
T460S-C & T670S-C Air Filtration Cabinets

For a cleaner, healthier working environment.
For the removal and containment of aerosol particulates & solvents, resin, adhesive, paint & sealant and solder fumes

Description

These units are recirculatory, i.e. filtered air is exhausted back into the workplace.

Comprising: Particulate filter to 5.0 microns - 4kg (T460S-C) or 8kg (T670S-C) activated carbon filter - Centrifugal blower(s), brushless, external rotor motor type (Model T670S-C has two blowers), UL, VDE and CSA approved - Sealed electrical wiring and switch(s) downstream of filters – T670S-C has dual airspeed function - Steel construction finished in dove grey - Clear, PETG, hinged fume hood.



FILTRATION

The particulate filter (Ref. 5) is a three stage, graduated fibre filter. The open structure of the first stage discourages surface loading and promotes depth filtration, ensuring a high dust holding capacity and reducing resistance to airflow. The denser backing filter and final scrim material provides finer filtration to 5 micron.

An optional pleated HEPA filter to 0.3 microns is available for high-grade filtration, typically to arrest solder fume (smoke) particulates ranging in size from 0.3 to 10 microns and potentially harmful fine powders.

NB: Solder fume consists of 95% particulates and 5% gases.

The activated carbon filter (Ref. 3 below) will adsorb a high percentage of solvent vapour and gases. Brief examples are given below of tests undertaken to assess the effectiveness of the filters. A Gastec pump and colorimetric adsorption tubes were used to measure vapour and gas concentrations.

- Application: Protective coating for electronics applied by brush.
Contaminant: Organic solvents (total hydrocarbon adsorption tubes were used)
Operator exposure working on a bench top was 180ppm. Operator exposure using the fume hood was not detectable. Exhaust air from the rear of the cabinet was less than 10ppm (i.e. not detectable).
- Application: Manufacture of dental prosthetics and hearing aid mouldings.
Contaminant: Methyl methacrylate
Operator exposure working on a bench top was 200ppm. Operator exposure using the fume hood was not detectable. Exhaust air from the rear of the cabinet was less than 10ppm (i.e. not detectable).
- Application: Electronic cleaning process using aerosol spray.
Contaminant: Isopropyl Alcohol (IPA)
Operator exposure working on a bench top was 1500ppm. Operator exposure using the fume hood was not detectable. Exhaust air from the rear of the cabinet was less than 10ppm (i.e. not detectable).

NB: Specially treated carbon filters are available on request for specialist applications.

APPLICATIONS

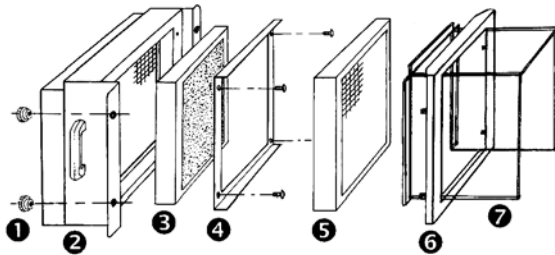
For use in situations where external venting is impractical and hydrocarbon vapour and gas filtration is necessary. Applications include the handling and use of Electrochemicals. (Cleaning solvents, conformal coatings etc) resins, sealants, adhesives, solder pots and solder irons. Also used in orthopaedics and dental laboratories for controlling staff exposure to, typically, methyl methacrylate, cyanoacrylate adhesives and for the safe weighing of hazardous powders.

Optional accessories available include Part No's HE495 (T460S-C) and HEA2705 (T670S-C) pleated particulate filter for fine dust/ powder and solder fume capture to 0.3-micron particles. Stainless steel spillage trays and perforated grids.

These units are designed for operator protection whereby gases, fumes, vapours and particulate contaminants are filtered. Cleaned air is exhausted at the rear of the cabinet.

Technical Specification

Model Number	T460S-C	T670S-C
Fan Motor—Volts	230V or 110V	2 x 230V or 110V
Fan Motor—Watts	105W	210W
Average Velocity—Filter Face	0.50m/sec	0.38m/sec
Average Velocity—Hood Face	0.57m/sec	0.55m/sec
Capture Area Dimensions (hxwx d)	360x460x300	500x670x350
Overall Dimensions (hxwx d)	385x575x530	515x785x610
Weight	25kgs	37kgs
Controls	Illuminated Power Switch	Illuminated Power switch. Dual Speed Function
Construction	Grey powder coated steel. Clear PETG Fume Hood	Grey powder coated steel. Clear PETG Fume Hood



Ref No:	Description	Model T660H-C	Model T930H-C
1	Handwheels M6 x 4	P5004	P5004
2	Fan (Blower) Housing/Mounting	P1001-C	P1001-C
3	Activated Carbon Filter	AC200	AC100
4	Carbon Filter Retainer		
5	Particulate (Intake) Filter - 5 microns	IFA3	IFA2
5	HEPA filter - 0.3 micron (optional)	HE495	HE705
6	Filter Retainer	P2001	P2002
7	Clear Hinged PETG Hood	P4010L	P4020L

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