FUME CABINET FOR CP3000

OBSESSIVE SINCE 1965 PRECISION

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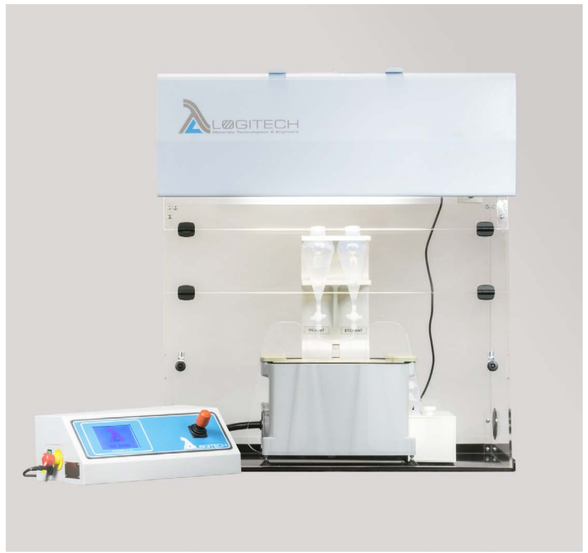
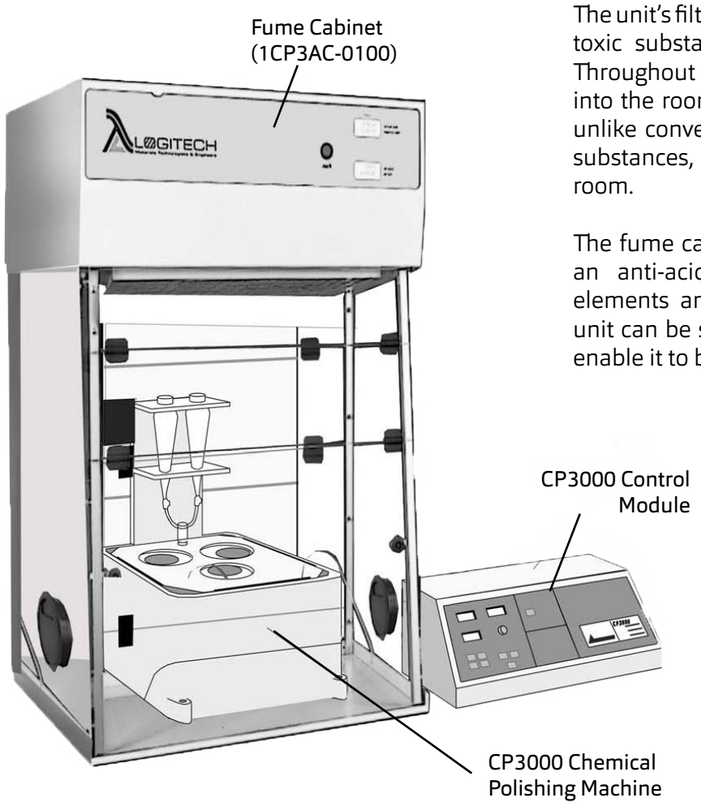
FUME CABINET FOR CP3000

The chemicals used in fine prime face polishing of semiconductor wafers and other electronic and opto-electronic crystals, such as Bromine Methanol, Peroxide Alkaline or acid etches, are highly aggressive. They require the use of corrosion-resistant equipment which is specifically designed for the purpose, but in addition the appropriate measures must be taken to ensure that the operator does not come into contact with the toxic vapours.

This fume extraction cabinet (1CP3AC-0100) is recommended for the handling and filtration of toxic gases, vapours, particles and odours, and is ideal for use with a Logitech CP3000 Chemical Polishing Machine.
It ensures the protection of the respiratory passages and the quality of the working environment of laboratory personnel who regularly work with toxic compounds such as Bromine Methanol.





The unit's filtration system is specially designed to remove toxic substances and is of extremely high efficiency. Throughout the lifetime of the filter, the air discharged into the room is totally free of any toxic concentration - unlike conventional units which merely dilute the toxic substances, releasing a reduced concentration into the room.

The fume cabinet is constructed of steel protected with an anti-acid polyethylene coating. The transparent elements are made of acrylic panels. If required, the unit can be supplied with an optional junction frame to enable it to be interconnected to another cabinet.

- Ductless: can be installed instantly
- High efficiency filtration
- Environmentally safe: exhausts no pollutants
- Mobile
- Modular design allows units to be interconnected

KEY FEATURES & FUNCTIONALITY

MAIN FEATURES:

- The cabinet is constructed as a frameless enclosure using optically clear 'safe-edged', fire-retardant and chemical resistant acrylic, providing a range of sizes and configurations.
- Mounted on top of the acrylic enclousre is the fully welded hinged steel housing, incorporateing fan, control panel and alarm panel, IEC power inlet socket and speed controller.
- Immediately below this is a removable steel grille, which houses the per-filter element.

ACCESS DOORS:

- Bi folding hinged doors; manufactured from the same 8mm fire-retardant, acrylic panels are located at the front face of the enclosure and can be fully opened to provide complete access to the interior.
- The hinged door assembly is secured by tool-operated securing catches fitted both sides.
- Two 'tear-drop style' access apertures are incorporated as standard withing the lower door panel for operator access during normal operation. Optional profiles such as 'trapzium' or flap can also be provided.

PRE-FILTER-FUNCTION:

- A single, pre-filter provides 'first-stage' particle filtration, which improves overall effiency and extends the life of the main filter.
- The pre-filter can be removed under negative pressure without having to open the fan/filter housing above and therefore provides a safe-change method during servicing.

MAIN FILTRATION - 2 STAGE:

- The Logitech Fume Cabinet is fitted with a 2-stage filtration system as standard, comprising a high performance 'EnviroTM' (activated carbon) filter and an alloy spaced frame, within the filter hosuing at the top of the enclosure.
- This is enhanced with the addition of a pre-filter, which is independently accessible and can be replaced using safe-change method.

MAIN FILTRATION - 3 STAGE OPTION:

- An optional 3-stage filtration system is available which comprises an 'EnviroTM' carbon filter and a HEPA or ULPA particle filter with pre-filter pad.
- Optional, specific chemical capture EnviroTM filter types can be fitted together with HEPA filter combinations.

FAN:

- A single dynamically balanced, thermally protected, centrifugal fan is assembled within the plenum assembly.
- The fan creates the desired face velocity at the intake apertures and maintains (Negative pressure) airflow throughout the enclosure.

INTERNAL TRAY:

- A full-width removable polyvinyl chloride base tray is incorporated at the base of the cabinet to accommodate chemical spills during processes.
- Spills can be easily mopped up using approriate absorbent material, (and disposed of in accordance with local safety procedures), however, the tray should be removed from the enclosure for more vigorous cleaning by lifting the cabinet clear of the tray, using a 2-man lift.

Image 1: Logitech Fume Cabinet for CP3000

Image 2: Logitech Fume Cabinet for CP3000

TECHNICAL SPECIFICATIONS

Temperature Range:	15°C to 32°C
Humidity:	Max RH 80% for temperatures up to 31°C
Filter type:	OS 4
Pre-filter 1:	Organic Vapours Secondary acids Enviro Carbon Filter (OS)
Main filter 2:	Acid Vapours Secondary Organic acids Enviro Carbon Filter (H+)
Opening type:	Teardrop
Volume of air:	130m^3/hr
Face Velocity:	>0.5m/s
Fan type:	EBM R2E-190-AO26-05 230V 50Hz-dynamically balanced centrifugal
Power Consumption:	45 Watts
Supple Amps:	5.0
Voltage:	230V ± 10% 50 Hz
Airflow alarm:	AMS Programmable electronic with audible as an option
Lighting:	Integrated lighting up to 19W, Available as an option
Sound level:	< 50dBA at 1 metre
Net weight:	75Kg