TOPAIR

CLEAN AIR SOLUTIONS

By Statitech

Laboratory Equipment Catalog

Fume Cupboards & Ductless Fume Hoods

Biological Safety Cabinets

Laminar Flow Clean Benches

PCR Cabinets

Complete Laboratory Furnishing

Chemical Storage Cabinets

January 2012

TOPAIR
CLEAN AIR SOLUTIONS
By Statitech

TopAir, a division of Statitech Ltd., provides high quality clean air solutions for controlled environments, clean room and laboratories.

TopAir handles the planning, design and production of top quality laboratory equipment. The company specializes in the development and manufacture of quality chemical and biological fume chambers that are safe for laboratory staff as well as the environment. TopAir derives its expertise from its parent company, Statitech, which is a veteran supplier of clean room equipment to numerous industries, such as hi-tech, chemicals, pharmaceutical, academic, research and clean room.

TopAir places special emphasis on creating customized solutions for each customer. The company fully complies with the highest quality and service standards set by the international community:

- ISO9002 – International standard outlining requirements for managing quality systems
- EN-14175 - European standard
- ASHRAE-110 - US standard
- NSF 49:2002 / US Standard ANSI

Fume Cupboards & Ductless Fume Hoods	3 – 12
Biological Safety Cabinets	13 - 15
Laminar Flow Clean Benches	16 - 21
PCR Cabinets	22 - 23
Complete Laboratory Furnishing	24 - 28
Chemical Storage Cabinets	29

Fume Cupboards

Chemical fume hoods protect laboratory staff from noxious fumes when working with acids, dangerous gas, organic solutions, etc. Harmful and unpleasant chemical fumes are removed from the controlled environment to facilitate safe, pleasant work in laboratories, hospitals, medical R&D centers, universities, schools, plastics factories, aircraft, electronics and optics factories, gluing halls, and more.

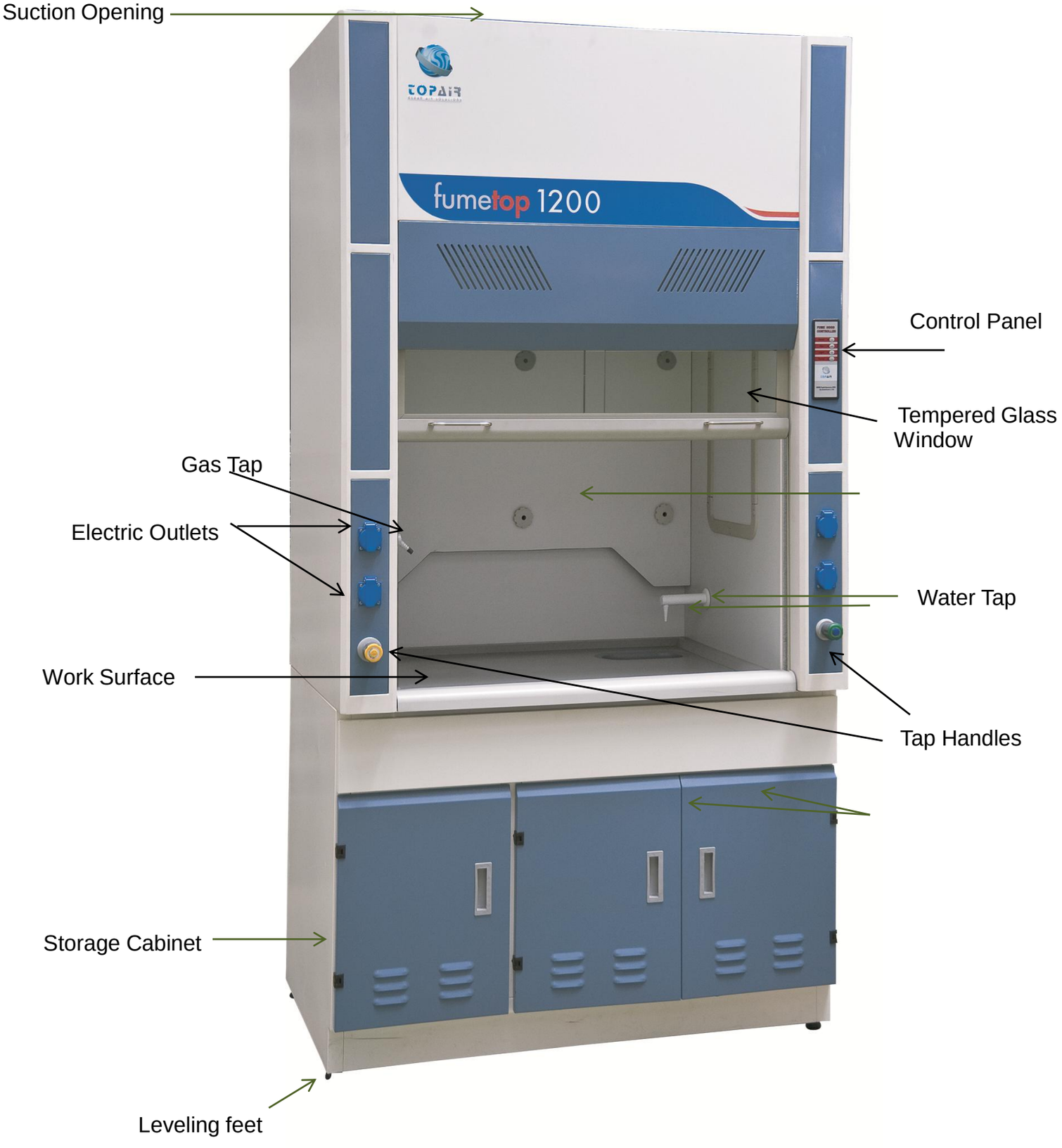
Non-filter Fume Cupboards

- Channels chemical vapors out of the building using an internal fan installed on the roof or on an external wall.
- Designed for work with heavy chemicals; the hood is made of polypropylene, in a metal cabinet.

Ductless Fume Hood with Active Charcoal Filter

- Consists of a work station cabinet with an upper fume hood containing the fan, active charcoal filter and exhaust pipe.
- After suction and absorption of chemical vapors from the work station, the air is filtered by the active charcoal filter, thereby releasing clean air into the workspace.
- A HEPA filter can be added.

Fume Cupboard – Series FH



Sink and Tap Inside the Cabinet

Window with
Aerodynamic Closure

Tap for Liquids and
Universal Electrical Outlets

Service Portal and Gas Tap

Fume cupboards are Manufactured in Various Sizes

Hood Opening

Frontal View of Workspace

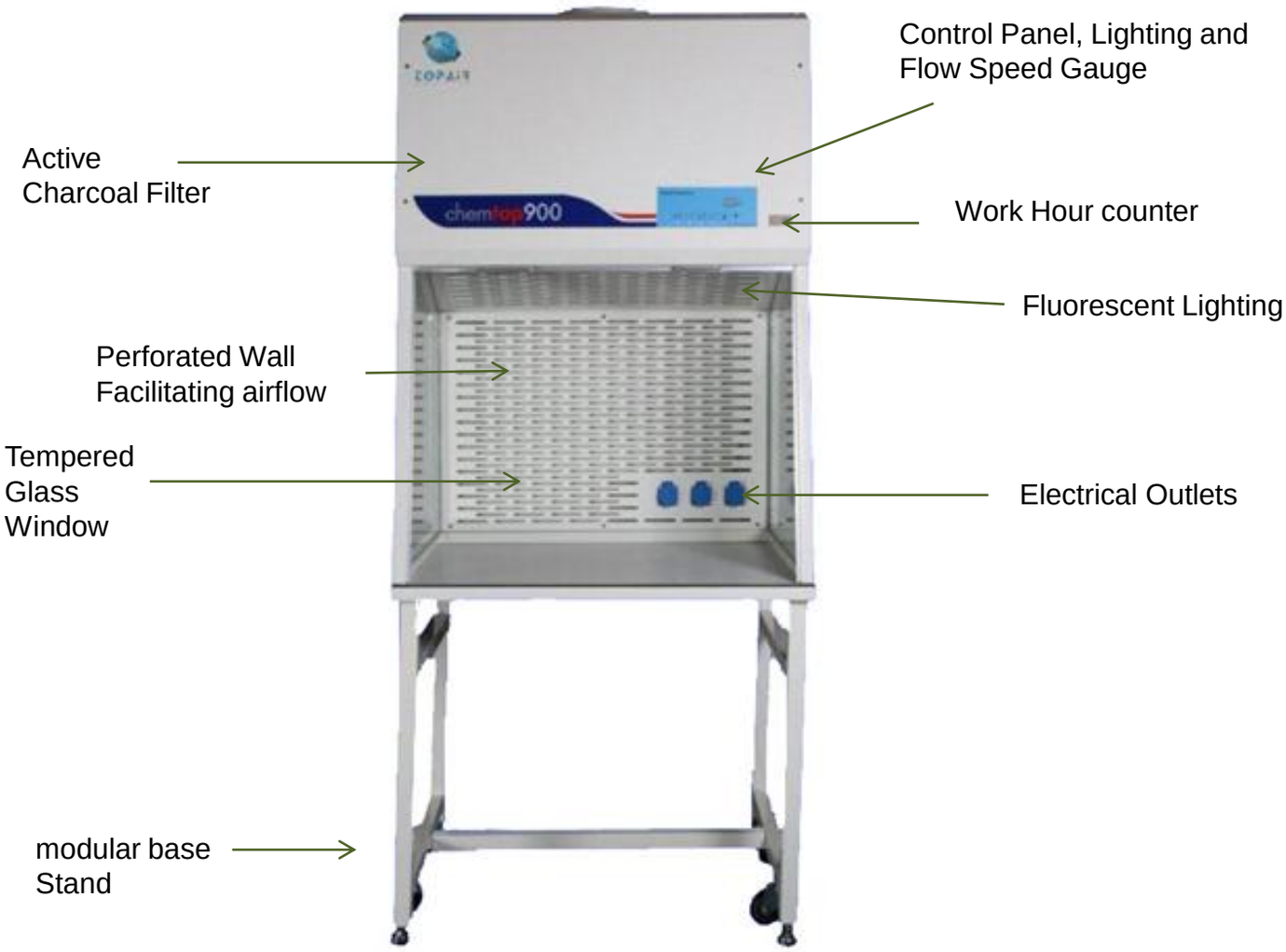
Lighting Shielded against Ruptures

Bottom Storage Cabinet

Ductless Fume Hoods - CF Series

Features

- Aerodynamic construction for smooth wave-free airflow
- Comprehensive, user-friendly digital control system for regulating fan speed, lighting and airflow velocity, and for indicating any obstructions in the filter.
- Quality active charcoal filter, plus washable preliminary filter for preventing obstructions in the charcoal filter
- Monitor indicating fan's total working time, for tracking and fan replacement purposes
- Airflow velocity of 0.5 meters per second with an open window, in accordance with relevant standards
- Epoxy covered, oven tempered metal construction and tempered glass windows allowing observation of work inside the unit
- Top quality, quiet fan manufactured by **EBM** Germany
- Sash tempered glass window set on tracks, enabling significant closing of the hood opening



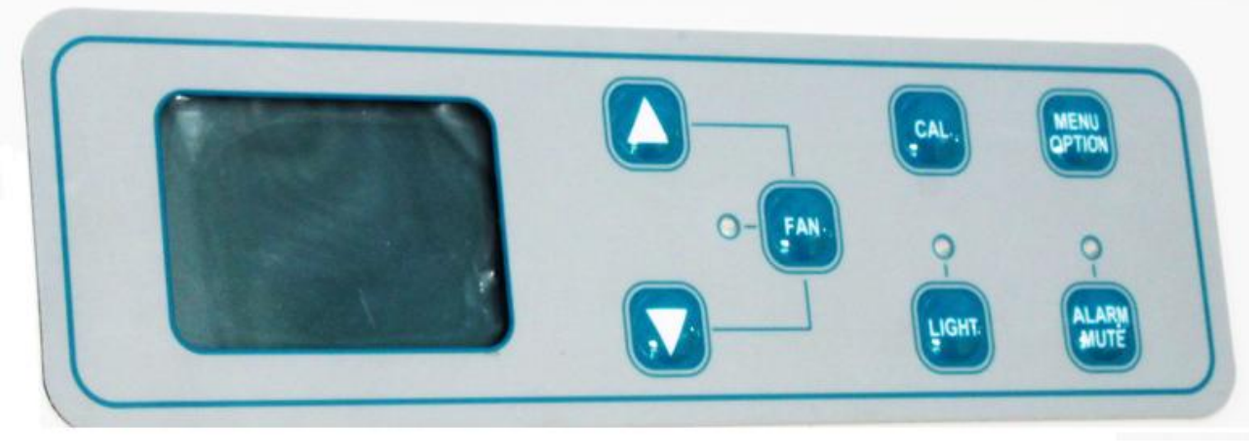
TopAir has recently launched Pro, an innovative, advanced series of ductless fume hoods. The Pro series comprises cutting edge technology and offers one of the safest and most secure working and operating environments in the world.

Pro series is equipped with an advanced control system that allows a secure and especially quiet working environment while indicating any deviations in precise functioning, thus affording laboratory staff a safe and pleasant work environment. The control system is highly dependable and precise, manufactured in Britain and equipped with a high quality LCD screen.

Features

- Advanced control system with a sensor regulating steady airflow on the window line, therefore allowing quiet, efficient and safe work
- The control system displays the airflow velocity on an LCD screen and provides audiovisual indication of any diversion from the recommended velocity.
- A sensor in the hood detects any excessive concentration of chemicals above the filter and provides an audiovisual indication when filter checks or changes are required.

Pro series provides staff with a high level of security using a real-time warning system for security breaches. This enables smooth product operation and successful qualification during required periodic inspections.

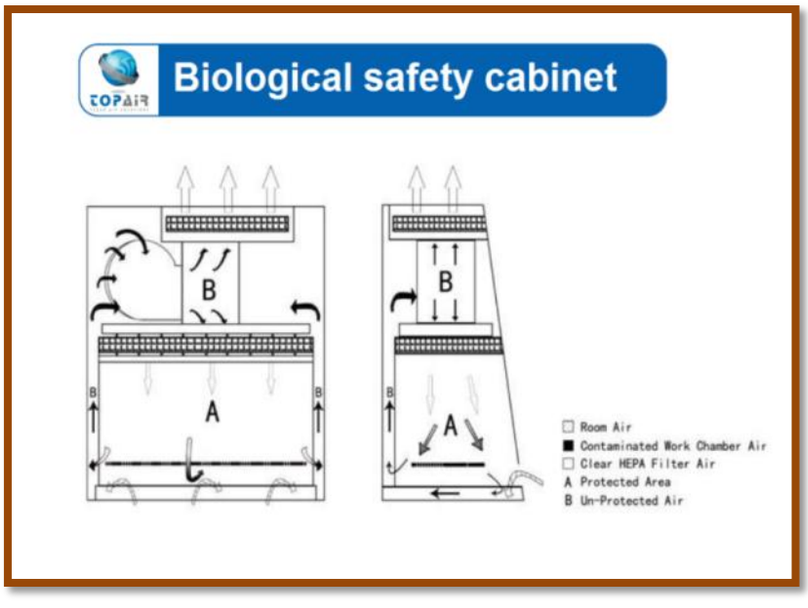


Biological Safety Cabinet – Class II Type A

Technical Specifications

Model No.	External Dimensions (mm)	Internal Dimensions (mm)
BO-2A-111	1115 x 815 x 1540	955 x 623 x 670
BO-2A-140	1420 x 815 x 1540	1260 x 623 x 670
BO-2A-170	1725 x 815 x 1540	1565 x 623 x 670
BO-2A-200	2030 x 815 x 1540	1870 x 623 x 670

Model No.	Airflow Velocity (Inflow)	Airflow Velocity (Down flow)	Electrical
BO-2A-111	0.53(m/s) /105(fpm	0.35(m/s) /70(fpm)	220-240V,AC, 50Hz,1ø
BO-2A-140	0.53(m/s) /105(fpm)	0.35(m/s) /70(fpm)	220-240V,AC, 50Hz,1ø
BO-2A-170	0.53(m/s) /105(fpm)	0.35(m/s) /70(fpm)	220-240V,AC, 50Hz,1ø
BO-2A-200	0.53(m/s) /105(fpm)	0.33(m/s) /65(fpm)	220-240V,AC, 50Hz,1ø



Clean Benches - Vertical and Horizontal

TopAir manufactures high quality, secure laminar clean benches. TopAir's clean benches suck air from the room or hall space, transfer the air through a HEPA filter by means of a fan, and then clean the bench area with filtered air. The electrical and mechanical components are manufactured by leading global companies, such as EBM Germany and AAF USA. The products comply with international standards CE and ISO. TopAir clean benches are customized to the specifications of each client.

Clean benches are designed to supply a clean controlled work environment meeting Class 100/ISO5 cleanliness standard , resembling a clean room, with the additional advantages of portability and small dimensions. Clean benches provide a high quality alternative to a clean room at a much lower cost and without massive construction.

TopAir offers a variety of high quality clean benches that provide solutions to many manufacturing and development fields and can provide solutions for every demand and requirement.

Applications

Laboratories, hospitals, medicine factories, development centers, universities, schools, plastics factories, the military industry, the electronics, optics and semiconductor industries, gluing halls, and every industry and laboratory that requires a particle-free work environment.

Models

A. Vertical Benches

In Vertical Benches, the filtered air is channeled downwards through a filter installed at the top of the bench. This is the most popular model.

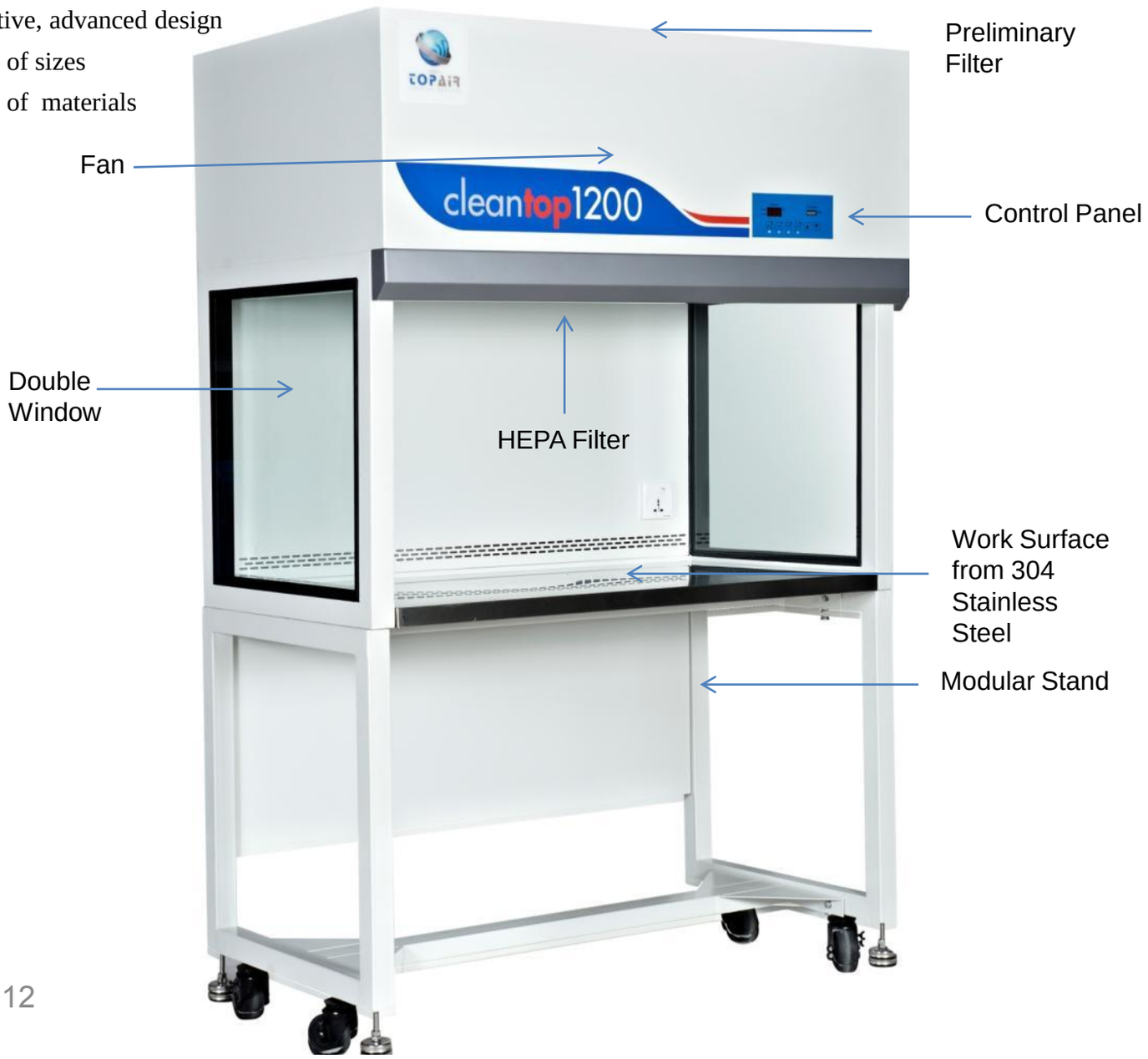
B. Horizontal Benches

In Horizontal Benches, the filtered air flows through a filter installed at the back of the bench, towards the staff member. This type of bench is less common, and is mainly used in the optical industries and for use with biological and organic cultures.

Vertical Clean Benches - HC-V Series

Features

- Vertical air stream producing clean air at ISO5/ CLASS100 or ISO4/Class10 standards (depending on the filter installed)
- Massive epoxy-coated and oven tempered metal structure assures stability, preventing bench movements throughout sensitive operations.
- User-friendly digital control system that manages fan speed and lighting system operation; when lighting is operating, an indicator displays the airflow and warns against filter blockage.
- Work surface made of 304 stainless steel which does not emit particles
- Side windows made of tempered glass, allowing an optimal view of work inside the station
- High quality, quiet fan from EBM Germany; the fan enclosure is padded with noise-absorbing material
- Noise level < 58 DBA
- Universal electrical outlet
- Fluorescent lighting
- Innovative, advanced design
- Variety of sizes
- Variety of materials



Horizontal Clean Benches—HC-H Series

Features

- Horizontal air stream producing clean air in compliance with ISO5/ CLASS100 or ISO4/Class10 standards (depending on the filter installed).
- Massive epoxy coated, oven-tempered metal structure assures stability, preventing movement during sensitive operations.
- User-friendly digital control system manages fan speed and lighting system; when the lighting system is in operation, an indicator displays the airflow and warns against filter blockage
- Work surface made of 304 stainless steel that does not emit particles
- Side windows made from tempered glass, allowing an optimal view of work inside the station
- High quality, quiet fan by EBM Germany; the fan enclosure is padded with noise-absorbing material
- Noise level < 58 DBA
- Universal electrical outlet
- Fluorescent lighting
- Innovative, advanced design
- Variety of sizes and materials

Models

Two models of UV-PCR Cabinets are available:

- Model with sterilization system, operation timer and security mechanism
- Model with sterilization system, operation timer, security mechanism, and a HEPA filter for generating clean air inside the cabinet space. The cabinets are ergonomically designed using top quality parts and construction, including an advanced fan by EBM offering long term reliability and a quiet working environment.

Features

- UV sterilization system inside the cabinet and filter area
- Painted, epoxy-coated metal construction
- Tempered glass side windows \HPL work surface
- Roll-up front window set on tracks
- Operation and control panel
- 600-800 LUX lighting
- Filtered airflow speed 0.35 m/s
- Security mechanism preventing exposure to UV rays
- Convenient, user friendly opening for filter changing
- 30 minute timer for sterilization

CHEMICAL STORAGE CABINETS

TopAir offers metal cabinets for storage of chemicals and clean equipment; made of epoxy coated, oven tempered metal.

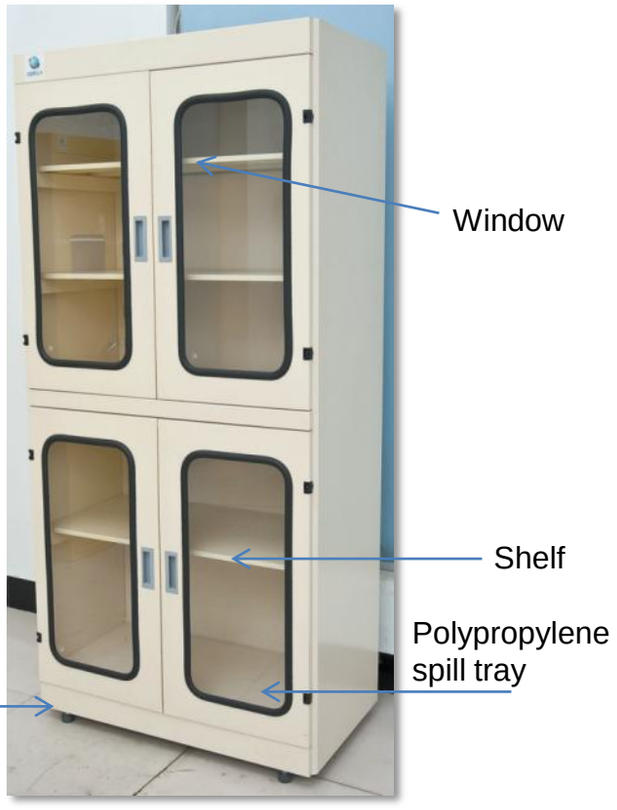
Measurements

W/D/H 1800-900-500

The cabinet includes:

- Four observation windows made of hermetically tempered glass
- Four doors with locks
- Ventilation openings at the sides and top of the cabinet
- Three stationary shelves inside the cabinet
- The cabinet is divided into two compartment-spaces

Optional: suction fan



Spec/Model	LFC-B-900	LFC-PF-900	LFC-AF-900	LFC-AFF-900	LFC-PP-900
Description	Basic lab storage cabinet, no fuming option	Lab storage cabinet with duct fuming connation	Lab storage cabinet with duct fuming connation & built-in fan	Lab storage cabinet with independent fume – filtering systems.	Polypropylene cabinet for acid & corrosive materials.
External Dimensions (W x D x H)	900 x 450 x 1800mm 35.4 x 27 x 43.31”	900 x 450 x 1800mm 35.4 x 27 x 43.3”	900 x 450 x 1800mm 35.4 x 27 x 43.3”	900 x 450 x 1800mm 35.4 x 27 x 43.3”	900 x 450 x 1800mm 35.4 x 27 x 43.3”
Cabinet Material	Cold rolled steel; static power coated surface 6 mm Tempered Glass				Polypropylene
Power Supply Options			110/220V 50/60 Hz		
Filter			Charcoal Filter / **HEPA** Filter		

Spec/Model	LFC-SPT	LFC-FXP-10	LFC-SDT-1010
LFC-PP-ST	Polypropylene spill tray	Flexible 10 cm dim pipe	Solid PVC 10x10 cm duct

invent-uk

EN 14175 Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH EN 14175

CERTIFICATE & REPORT NO: INV/EN14175/560
DATE: 6th July 2011

Fume Cupboard Type:
chemtop900
CF-090-A ductless bench type
External Dimensions:
Height = 2060mm (1260mm + 800mm)
Width = 900mm
Depth = 700mm (max)
Internal Dimensions:
Height = 700mm (max)
Width = 825mm
Depth = 620mm (max)
Baffle Gap Dimensions:
Top: 23x75mmx8mm slots
Bottom: 83x75mmx8mm slots

Fume Cupboard Manufacturer:
Statitech Ltd
Shidlovsky 1
Argaman Area
Yavne 81221
ISRAEL

Fume Cupboard Flow:
Volume flow rate: 0.230m³/s
Test opening width: 825mm
Test opening height: 500mm
Face velocity: 0.518m/s
Pressure drop: N/A

This is to certify that the fume cupboard described above has been type tested in accordance with Part 3, in compliance with the requirements of Part 2 and with reference to Part 1 of EN 14175 and resulted in performance characteristics given in the corresponding test report.

Tested and Certified by: Dr A F Bicen
Invent UK Ltd, 85 Southdown Road, Harpenden, Herts AL5 1PR
Tel: 01582 461666 : Fax: 01582 460077 : E-mail: info@invent-uk.com

A.F. Bicen

invent-uk

EN 14175 Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH EN 14175

CERTIFICATE & REPORT NO: INV/EN14175/562
DATE: 6th July 2011

Fume Cupboard Type:
chemtop1200
CF-120-A ductless bench type
External Dimensions:
Height = 2060mm (1260mm + 800mm)
Width = 1200mm
Depth = 700mm (max)
Internal Dimensions:
Height = 700mm (max)
Width = 1125mm
Depth = 620mm (max)
Baffle Gap Dimensions:
Top: 32x75mmx8mm slots
Bottom: 116x75mmx8mm slots

Fume Cupboard Manufacturer:
Statitech Ltd
Shidlovsky 1
Argaman Area
Yavne 81221
ISRAEL

Fume Cupboard Flow:
Volume flow rate: 0.310m³/s
Test opening width: 1125mm
Test opening height: 500mm
Face velocity: 0.520m/s
Pressure drop: N/A

This is to certify that the fume cupboard described above has been type tested in accordance with Part 3, in compliance with the requirements of Part 2 and with reference to Part 1 of EN 14175 and resulted in performance characteristics given in the corresponding test report.

Tested and Certified by: Dr A F Bicen
Invent UK Ltd, 85 Southdown Road, Harpenden, Herts AL5 1PR
Tel: 01582 461666 : Fax: 01582 460077 : E-mail: info@invent-uk.com

A.F. Bicen

invent-uk

ANSI/ASHRAE 110-1995 Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH ASHRAE 110-1995

CERTIFICATE & REPORT NO: INV/ASHRAE110/555
DATE: 5th July 2011

Fume Hood Type:
fumetop1200
FH-120 bench type
External Dimensions:
Height = 2300mm (1500mm + 800mm)
Width = 1200mm
Depth = 800mm
Internal Dimensions:
Height = 1050mm
Width = 950mm
Depth = 670mm (wall-sash) 620mm (baffle-sash)
Baffle Gap Dimensions:
Top gap: 40mm
Bottom gap: 140mm - 240mm

Fume Hood Manufacturer:
Statitech Ltd
Shidlovsky 1
Argaman Area
Yavne 81221
ISRAEL

Fume Hood Flow:
Test opening width: 950mm
Test opening height: 500mm
Face velocity: 0.51m/s

This is to certify that the fume hood described above has been type-tested in accordance with ASHRAE 110-1995 and resulted in performance characteristics given in the corresponding test report.

Tested and Certified by: Dr A F Bicen
Invent UK Ltd, 85 Southdown Road, Harpenden, Herts AL5 1PR
Tel: 01582 461666 : Fax: 01582 460077 : E-mail: info@invent-uk.com

A.F. Bicen

invent-uk

ANSI/ASHRAE 110-1995 Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH ASHRAE 110-1995

CERTIFICATE & REPORT NO: INV/ASHRAE110/557
DATE: 5th July 2011

Fume Hood Type:
fumetop1500
FH-150 bench type
External Dimensions:
Height = 2300mm (1500mm + 800mm)
Width = 1500mm
Depth = 800mm
Internal Dimensions:
Height = 1050mm
Width = 1250mm
Depth = 670mm (wall-sash) 620mm (baffle-sash)
Baffle Gap Dimensions:
Top gap: 40mm
Bottom gap: 140mm - 240mm

Fume Hood Manufacturer:
Statitech Ltd
Shidlovsky 1
Argaman Area
Yavne 81221
ISRAEL

Fume Hood Flow:
Test opening width: 1250mm
Test opening height: 500mm
Face velocity: 0.51m/s

This is to certify that the fume hood described above has been type-tested in accordance with ASHRAE 110-1995 and resulted in performance characteristics given in the corresponding test report.

Tested and Certified by: Dr A F Bicen
Invent UK Ltd, 85 Southdown Road, Harpenden, Herts AL5 1PR
Tel: 01582 461666 : Fax: 01582 460077 : E-mail: info@invent-uk.com

A.F. Bicen

NSF International

OFFICIAL LISTING

NSF International Certifies that the products appearing on this Listing conform to the requirements of NSF/ANSI Standard 49 - Biosafety Cabinetry: Design, Construction, Performance, and Field Certification

This is the Official Listing recorded on June 29, 2011.

Statitech Ltd. (Topair Systems)
Shidlovsky 1
Yavne 81221
Israel
972 54 4338 034

Acceptable Model Number	Cabinet Type/Style	Inflow Velocity (fpm)	CBV (cfm) Downflow at Static Velocity Pressure (fpm) (in w.g.)	Cabinet Width ft.	Window Ht Ht/Type Max in. in.	Bench Options
BO-2A-140[1]	A2 A	100-110	60-70 N/A	4	00 25	I.V. Pole U.V. Light

[1] Inflow nominal set point of 105 fpm was established with a direct airflow reading instrument. This nominal set-point was confirmed using the manufacturer's recommended alternate method with thermal anemometer in a constricted (3 inch high) access opening (consult manufacturer for appropriate correction factor, if applicable), without adjusting cabinet airflow balance. Downflow nominal set-point of 65 fpm was established with I.V. Pole and U.V. Light removed. This cabinet model was Certified to NSF/ANSI 49-2009.

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

1 of 1

C0388608

789 N. Dixboro Road, Ann Arbor, Michigan 48105-9723 USA
1-800-NSF-MARK / 734-769-8010
www.nsf.org