

# topsafe series

Safety you can afford



**Microbiological Safety Cabinet Class II Type A2  
CERTIFIED EUROPEAN SAFETY AT AFFORDABLE PRICES**

# topsafe *series*

## Safety you can afford

### Main specifications

- Microprocessor controlled, with volumetric sensor for exhausted air flow monitoring.
- Highest air flow stability both in case of transitional disturbances or progressive filter clogging.
- Continuous monitoring of front barrier air flow for the highest operator safety.
- Low barrier alarm.
- Volt free contact for remote monitoring of exhaust fan or other devices that need to be synchronised with cabinet status (on/off).
- Bar-graph analogical display for the easiest reading of air speed value (barrier and downflow).
- Hydraulic height adjustable support stand (manual and electrical).

### Mechanical and functional specifications

- Sloped front design for the highest operational comfort. Sloped back side of the work chamber for the best down-flow distribution.
- Space Saving utilities inlets from the top of the cabinet.
- AISI 304 Stainless Steel internal surfaces with 2B finishing (including spillage tray). Solid work surface and special designed front grill.
- Hinged multilayer 6 mm safety glass window (manual opening for easy cleaning procedures).
- Comfortable 200mm front opening.
- Front closing panel.
- Retrofit options through lateral sides.
- Exposed exhaust HEPA (H14) filter for easy visual integrity check.
- Filter change and maintenance from the front of the cabinet.
- Exhaust transitions adapters easily installable for ducting.
- Key operated. The key can be removed when the unit is in SAFE mode, in order to avoid unwanted operation.



Cabinets are supplied in three different sizes (1.2mt, 1.5mt and 1.8mt). These last generation Microbiological Safety Cabinets Class II Type A2 have been certified according to the most stringent safety standards [EN 12469:2000].

The internal design, the air flow aerodynamics and monitoring, the built-in safety devices and the very accurate manufacturing, guarantees the highest performances at the most stringent safety levels, as specified by EN 12469:2000 standard and have been tested by the most prestigious European certification bodies for Safety Cabinets.

In case of power failure, the cabinet is reset to original working conditions when power resumes.

- Self check cycle performed when cabinet is switched on. High speed rinse and set up cycle performed, before reaching the SAFE operating mode.
- Visual display of SAFE conditions. Pre-warning before actual alarm conditions are reached (visual and acoustic alarms).
- Soft touch control with keys for standard service utilities.
- Interlocked UV and fluorescent lights
- H14 High Efficiency Particulate Air filters as per ISO EN 1822 - 1.
- Exhaust and recirculating flow rates ensure 25 air changes/min in the work area (30% - 70% split).
- Front barrier air speed  $\geq 0.5\text{m/s}$ .
- Aperture protection Factor (Apf)  $\geq 1.5 \times 10^5$  (retention efficiency).
- Cleanability Index C grade, according to EN 12469 : 2000 standard.
- Light intensity on work surface  $> 1000\text{ lux}$ .
- Noise level according to ISO 11022  $\leq 58\text{ d B(A)}$ .
- 220/240V, 50Hz power supply.
- Power (for each power point) 3A (total max power 6A).
- Microprocessor equipped with analogical watch dog.
- CE certification according to Machinery Directive 89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC.
- EN 12469 : 2000 certified by TÜV NORD.





- Bargraph display for the easiest reading of air speed values (barrier and downflow).
- Alarms: Multilevel alarms with redundancy functions.
- Permanent monitoring of working conditions.
- Soft touch control panel for standard service utilities UV and fluorescent lights interconnected.

- Stainless steel AISI 304 internal surface with 2B finishing (including spillage tray). Solid work surface and special designed front grill.
- Cleanability Index C grade (EN 12296 tested and certified).
- Light intensity on work surface > 1000 lux.



- Fully programmable UV cycle (start-up delay and duration).
- The mobile UV kit is interlocked with fan and front window position (available as option).
- Ensures high decontamination where it is required and optimize bulb lifespan.
- UV on rear wall also available as option.



Top



Side

**TECHNICAL SPECIFICATIONS**

	<b>topsafe 1.2</b>	<b>topsafe 1.5</b>	<b>topsafe 1.8</b>
Work chamber dimensions (wxdxh) mm	1230 x 580 x 700	1530 x 580 x 700	1840 x 580 x 700
External dimensions (wxdxh) mm	1380 x 795 x 1450	1685 x 795 x 1450	1990 x 795 x 1450
Height on stand mm	2175	2175	2175
Front opening height mm	195	195	195
Weight Kg	180	220	290
Power supply	220/240 V - 50 Hz	220/240 V - 50 Hz	220/240 V - 50 Hz
Power W	350	550	750
Noise level dB(A)	< 58	< 59	< 59
Lighting lux	> 1000	> 1000	> 1000

<b>How to order</b>	
<b>Class II Type A2 Microbiological safety Cabinets</b>	
<b>LDA0000</b>	TopSafe 1.2
<b>LDB0000</b>	TopSafe 1.5
<b>LDC0000</b>	TopSafe 1.8
<b>Class II Type A2 Microbiological safety Cabinets "BS" (Dual exhaust HEPA Filter)</b>	
<b>LDA0300</b>	TopSafe 1.2 BS
<b>LDB0300</b>	TopSafe 1.5 BS
<b>LDC0300</b>	TopSafe 1.8 BS
<b>Stands and UV</b>	
<b>AS1A000</b>	Stand for all 1.2 models
<b>AS1B000</b>	Stand for all 1.5 models
<b>AS1C000</b>	Stand for all 1.8 models
<b>AKC0001</b>	Mobile UV light kit
Please enquire about the many option and accessories available.	

**Installed standard utilities:**

- 1 Gas tap with solenoid valve.
- 1 Vacuum tap.
- 1 Electrical socket type Schuko [2 each on 1.8 model].
- 1 Multifunction UV light socket
- Elapsed time meter.
- Metal front closure panel.