



## BIOLOGICAL SAFETY CABINET CLASS I

**EN12469**



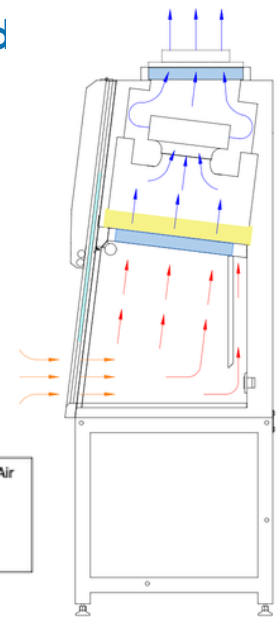
- ✓ Superior Biological Protection for Personnel and Environment
- ✓ Ergonomic Design
- ✓ Spacious Work Chamber
- ✓ Low Noise Level

# “Unidentified materials or contents of the danger level are provided in Class I BSC to protect the personnel and environment”

## AIR FLOW DIAGRAM

Metisafe® Class I BSC works with HEPA filtration principle. The room air is taken into the cabinet at 0.50 m/sec ( $\pm 10\%$ ) from the sash window opening and passes it through a pre-filter, HEPA filter, and a secondary pre-filter; thus, clean particle free air is supplied to the indoor environment or can be exhausted to the external atmosphere via a duct connection (optional\*).

The Class I BSC is designed so that the cabinet work area will be dead space free and will not disturb the air flow pattern.



with air duct adapter (optional\*)

## Main Body and Design Features

- Main body from antibacterial electrostatic paint coated on steel
- $<7^\circ$  angle back sloped front panel for work comfort and increased working chamber vision
- Isolated easy access control unit from the contaminated area
- Monoblock or removable with rounded corners stainless steel work plate

- UV resistant glass
- Homogenous and cruise control airflow
- Advanced filter compensation system keeping steady air velocity under increased filter resistance
- Homogenous illumination
- Timer controlled effective disinfection by UV Lamp
- D.O.P. test port



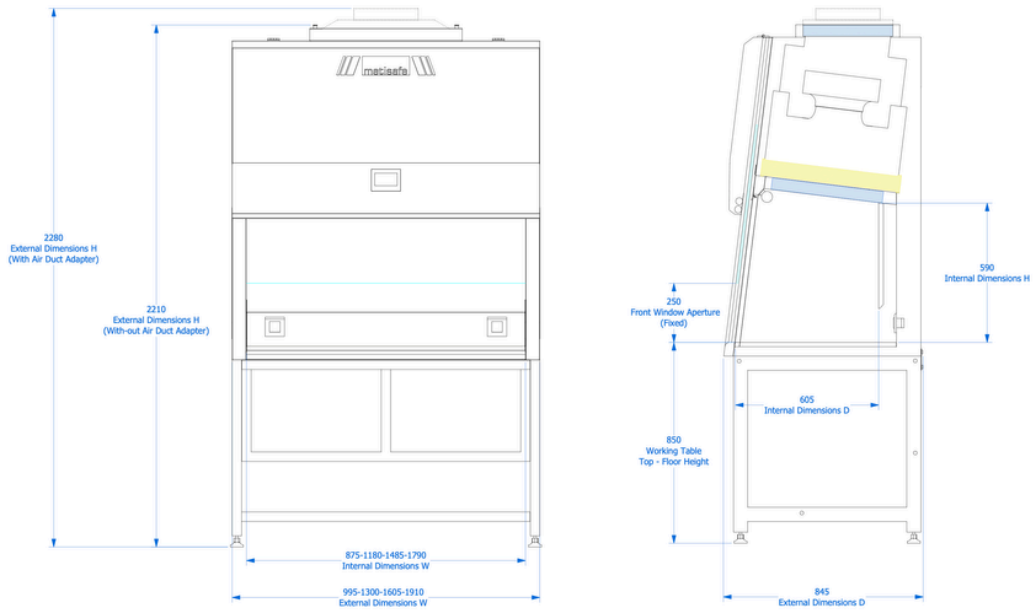
## Color Screen Touch Control Panel:

- **Operational Control:** Power (On/Off), Mode Selection (Standby/Normal), Illumination and UV Control
- **System Monitoring:** Airflow Velocity, Fan Diagram/Capacity, Operating Hours (Cabinet/UV/Illumination)
- **Settings & Security:** Password-protected access and Technical Service/Maintenance menu, Date/Time, UV Timer
- **Alarm & Maintenance Management:** Temporarily Muteable Audible/Visual Alerts; Improper air velocity, Filter, and UV Lamp Replacement Reminders



Control panel main display screen

## TECHNICAL DRAWING



### TECHNICAL SPECIFICATIONS

MODEL	MSC-I-90	MSC-I-120	MSC-I-150	MSC-I-180	
<b>DIMENSIONS</b>					
Internal Dimensions (WxLxH) mm	875x605x590	1180x605x590	1485x605x590	1790x605x590	
External Dimensions (WxLxH) mm (Including Support Stand)	995x845x2210	1300x845x2210	1605x845x2210	1910x845x2210	
Working Table Height (mm)	850 mm				
<b>HEPA FILTER and AIRFLOW DYNAMICS</b>					
Airflow Velocity	0.50 m/sn ( $\pm$ %10)				
Airflow Rate m <sup>3</sup> /h	835	1125	1415	1705	
Filtreler (EN 1822)	Main Filter	H14 HEPA, 0,3 $\mu$ m particle %99.995 < filtration efficiency			
	Pre-filter	EU4			
<b>ENERGY</b>					
	Fan Filter Unit	105 W	200 W	170 W	200 W
	Illumination	50 W	50 W	50 W	50 W
	UV Lamp	30 W	30 W	30 W	30 W
	Electrical Socket Power/Current	220 - 240 VAC / 16A			
Total Power / Current	230 VAC / 50 Hz / 2500W / 16A				
<b>ERGONOMICS and COMFORT</b>					
Front Window Aperture (Fixed)	250 mm				
Noise Level	Normal Mode	$\leq$ 60 dB(A)	$\leq$ 60 dB(A)	$\leq$ 65 dB(A)	$\leq$ 65 dB(A)
	Standby Mode	$\leq$ 50 dB(A)	$\leq$ 50 dB(A)	$\leq$ 50 dB(A)	$\leq$ 52 dB(A)
Illumination	800 – 1250 Lux				
<b>WORKING AREA</b>					
Working Table	Standard	Working Table: 304 Stainless Steel - Side Walls: Epoxy Coated			
	Optional	304-316 Stainless Steel			
Front Window Thickness	$\geq$ 6 mm Tempered				
<b>QUALITY and CERTIFICATIONS</b>					
CE, ISO9001-2015 Quality Management Certificate, Biological Safety Cabinets EN12469, ISO14644 Cleanroom Class Compatibility, EN61010 Electric and Electronic Safety Compatibility, Accredited Testing Institution Validation Guarantee in case the installation is operated by Metisafe® Certified Technical Personnel					