Biosafety cabinets

Efficiency, safety and value for routine applications

MSC-Advantage Biological Safety Cabinets

thermo scientific

Sample and user protection
Containment, comfort and convenience

The Thermo Scientific™ MSC-Advantage™ Class II Biological Safety Cabinet combines safety, energy efficiency and value for today's laboratory. The cabinet is energy efficient and provides both, personal and product protection from biological hazards and contamination. It can be connected to an external exhaust to provide protection for trace amounts of volatile toxic chemicals that are sometimes used in the cabinet. The cabinet meets EN 12469 for Class II biosafety cabinets.

Containment

- Thermo Scientific™ SmartFlow™ technology automates airflow balancing and compensation

- Digital Airflow Verification (DAVe) alerts user to compromised product and operator protection

- H14 HEPA filters remove airborne contaminants

- SmartFlow™ indicator displays performance status

Comfort

- Low noise level enhances user focus

- 10° sloped front for exceptional comfort and ergonomics

- Spacious work area with comfortable armrests

- Increased light intensity for a brighter work environment

Convenience

- SmartClean front window design to improve cleaningand loading of large equipment

- Intuitive control panel displays safety and performance data

- Thermo Scientific™ SmartPort™ design organises tubing and cables

- Programmable UV light extends bulb life and saves energy

Basic controls and convenient features

Intuitive control panel

Optional rear wall tubing clips

SmartPort convenience

Sloping front sash

200 mm work aperture

Optional hanging shelf

Optional adjustable stand

Optional Thermo Scinetific
Ergolign saddle stool

Efficiency

- DC motors offer low energy consumption
- Standby mode reduces airflow to 30% during low-usage periods
- Long filter life*
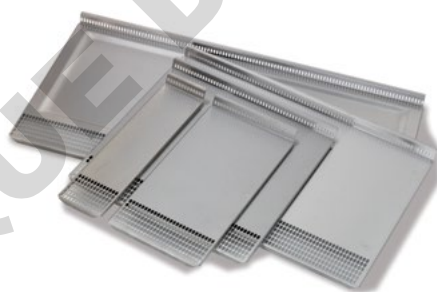- Programmable UV light extends bulb life*

*Compared to previous models.

Specifications

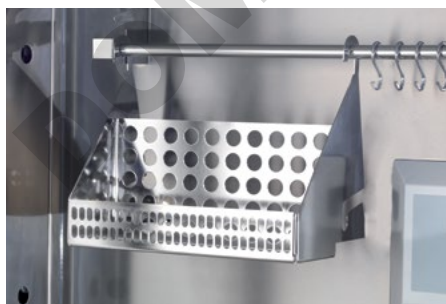| Size/internal width	0.9m	1.2m	1.5m	1.8m
Exterior dimensions WxHxD (mm)	1000 x 1522 x 798	1300 x 1522 x 798	1600 x 1522 x 798	1900 x 1522 x 798
Interior dimensions WxHxD (mm)	900 x 780 x 630	1200 x 780 x 630	1500 x 780 x 630	1800 x 780 x 630
Shipping dimensions WxHxD (mm)	1110 x 1730 x 925	1410 x 1730 x 925	1710 x 1730 x 925	2010 x 1730 x 925
Net weight (Kg)	170	200	230	280
Shipping weight (Kg)	190	225	265	315
Working opening height of front window	200 mm			
Maximum opening height of front window	535 mm			
Max load capacity per work surface segment	25 kg			
Certification to EN12469	TÜV, LNE	TÜV, LNE	TÜV	TÜV
Light power (Lx)	>800	>850	>1250	>1300
Receptacles	2 sockets, right rear wall		4 sockets: 2 on each side rear wall	
Noise level (dBA)	<55	<55	<59	<59
Energy consumption, operating set point (W)	150	200	280	340
Energy consumption, reduced flow mode (W)	40	40	70	70
Normal heat output in operation (BTU/hr)	512	682	955	1160
Normal heat output in reduced flow mode (BTU/hr)	136	136	239	239
Exhaust/inflow air volume (m3/h)	292	389	486	583
Ducting requirements, thimble connection (m3/h)	379	505	632	758

Manually adjustable stand enables cabinet to be set at a comfortable working position between 750-950mm

Configurable work surface improves flexibility of the working area

Side wall service taps are easy to install

Utility basket with hanging bar increases flexibility of the working area and helps improve organisation

SmartPort floor stand hanging shelf to keep area beneath cabinet clear to ensure adequate legroom for a comfortable working position

Direct duct exhaust can be added when working with trace amounts of volatile chemicals

Ordering information and accessories

Description	Cat. no.			
	0.9m	1.2m	1.5m	1.8m
MSC-Advantage Class II Biological Safety Cabinet, 230V, 50/60Hz, EN12469	51028225	51025411	51028226	51025413
Fixed floor stand (height of 680mm)	50116441	50109309	50116442	50109311
Castor set - fixed stands only		50109977		
Manual adjustable floor stand (height of 680-880mm)	50116443	50109312	50116444	50109313
Electronic floor stand (height of 680-880mm)	50117449	50109314	50117450	50109325
Foot rest bars (Not for electric stands)	50051982	50051983	50051984	50051985
Removal of 316 SS work surface	51901025	51900915	51901027	51900916
316 SS worksurface (single piece)	50076398	50082970	50122210	50085281
316 SS worksurface (single piece - lowered)	50073669	50073670	50073671	50078750
Replacement ergonomic arm rests (316 SS and gel inserts)		50156438		
Additional exhaust HEPA filter		50109987		50109988
Additional carbon-enhanced filter		50109989		50110305
Factory-installed UV light option		51900912		
Vacuum tap G3/8 connection (grey) with long neck		50044678		
Water tap G3/8 connection (black) with long neck		50044679		
Non-combustible G3/8 connection (green) with long neck		50045959		
Combustible G3/8 connection (yellow) with long neck		50046015		
Solenoid valve for combustible G3/8 (yellow) connection		50109978		
Lead through for hose connections 10-13mm inner diameter hose		50059017		
Lead through for hose connections 3mm inner diameter hose		50076408		
Thimble duct (KTD)		50109984		50109985
Direct duct (KDD)		50109981		50109982
Hanging bar with hooks	50125639	50109979		
Utility basket for hanging bar kit (hanging bar to be ordered separately)		50078900		
Ergolign cleanroom saddle stool		ERG-CR-2330		
Floor stand hanging shelf		50128685		
Replacement SmartPort grommets		50128681		
Rearwall clips for tubing		50128703		
Switzerland country configuration		51900300		
UK country configuration		51900303		
Italy country configuration		51900306		
France/ Belgium country configuration		51900448		
Denmark country configuration		51900481		
Bulgaria, Czech Republic, Slovakia, Poland country configuration		51900771		
China country configuration		51900900		

Learn more at **thermofisher.com/msc-advantage**

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