ThermoFisher SCIENTIFIC



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

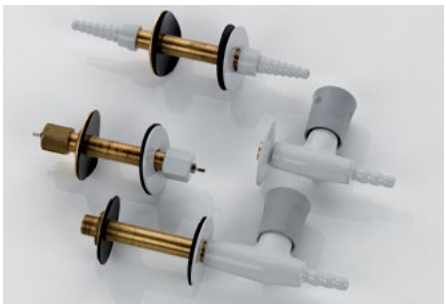
Size/internal width	0.9m	1.2m	1.5m	1.8m
Exterior dimensions WxHxD (mm)	1000 x 1522 x 798	1300 x 1522 x 798	1600 x 1522 x 798	1900 x 1522 x 798
Interior dimensions WxHxD (mm)	900 x 780 x 630	1200 x 780 x 630	1500 x 780 x 630	1800 x 780 x 630
Shipping dimensions WxHxD (mm)	1110 x 1730 x 925	1410 x 1730 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



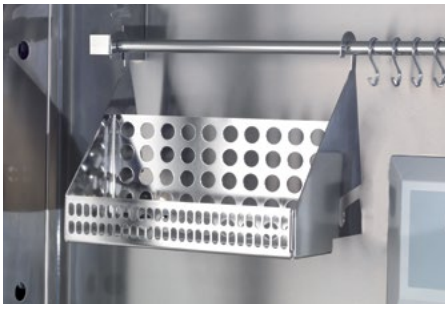
Manually adjustable stand enables cabinet to be set at a comfortable working position between 750-950mm



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

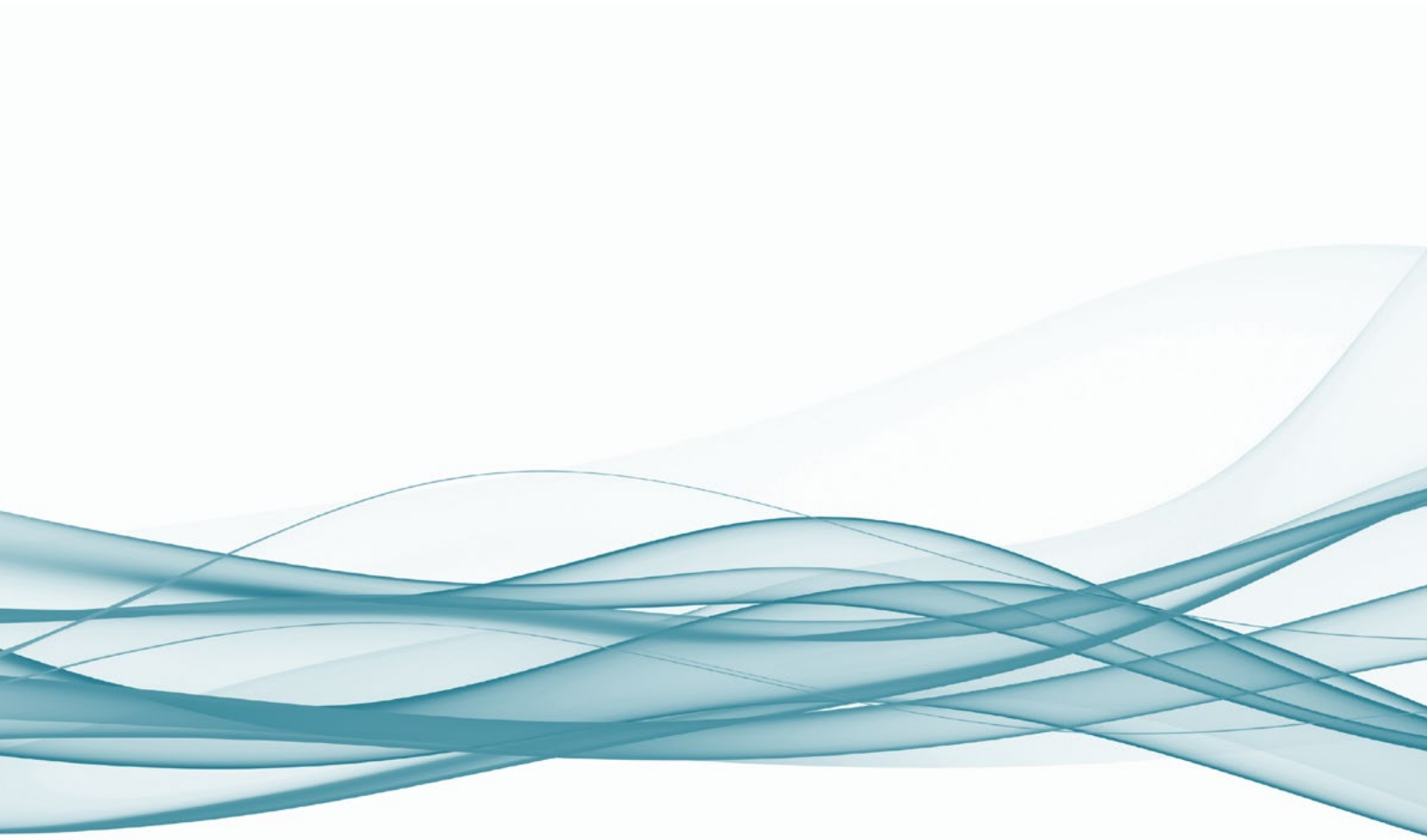


Direct duct exhaust can be added when working with trace amounts of volatile chemicals

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 adjustible 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			

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

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