



Biosafety cabinets

# Efficiency, safety and value for routine applications

MSC-Advantage Biological Safety Cabinets

# 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

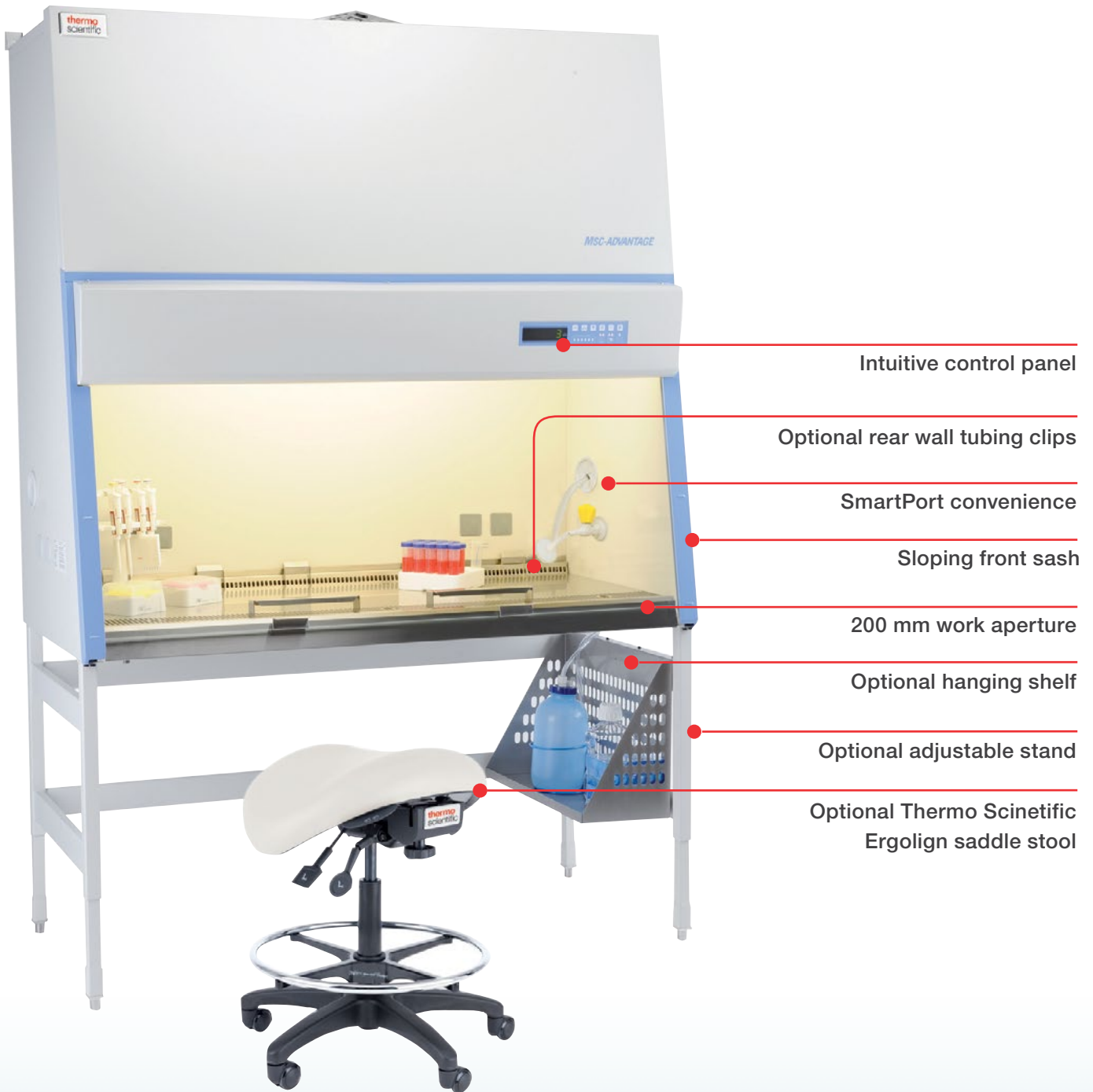
- Low noise level enhances user focus
- 10° sloped front for exceptional comfort and ergonomics
- Spacious work area with comfortable armrests
- Increased light intensity for a brighter work environment



### Convenience

- SmartClean front window design to improve cleaning and 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



## 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\*

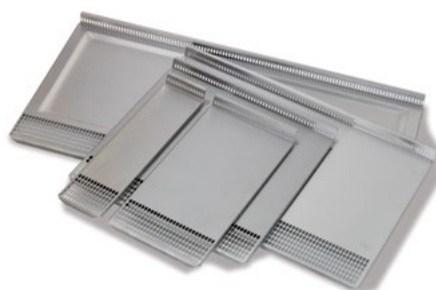
\*Compared to previous models.

## 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               |



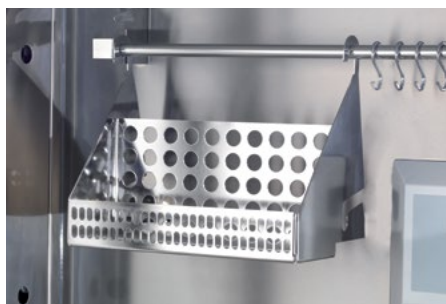
**Manually adjustable stand** enables cabinet to be set at a comfortable working position between 750-950mm



**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    |          |          |          |



# WolfLabs

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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