

**Thermo Scientific Holten Safe 2010 and
Holten Maxi Safe 2010**



**New comfort and safety in
Class II Cabinets**

Class II Cabinets with optimal operator comfort



Thermo Scientific Holten Safe 2010

Based on almost 40 years of R&D experience, our Thermo Scientific Holten Class II Safety Cabinets – the Safe 2010 and Maxi Safe 2010 – are the safest, quietest and most comfortable cabinets available.

We have always had the safety and comfort of operators in mind. That's why we were the first to introduce the sloping front window in 1996, now adopted as the industry standard. With our Holten Safe 2010 and Maxi Safe 2010 we've taken some more market-leading steps forward in comfort and usability. And of course both cabinets are built to the EN 12469 standard offering the strictest levels of safety that you would expect.

Optimal operator comfort

Back and shoulder aches will be a thing of the past and being particularly quiet with almost no vibration, working at our cabinets is a peaceful experience, hour after hour!

- Ergonomic design includes sloping front and an arm rest to give you more space and greater control while ensuring the most comfortable working position.
- Uniform glare-free light (min. 1200 lux) and improved visibility with side windows of safety glass
- Motorised front window for effortless access

Maximum safety

Offering the highest operator and product safety – all contaminated particles are kept inside the cabinet behind 6 mm layered safety glass.

- Microprocessor controller with safety alarms and easily accessible LCD display
- Airflow velocity indicator
- EN 12469 standard

Leading technology and design

From easy installation to perfect operation – we've considered it all.

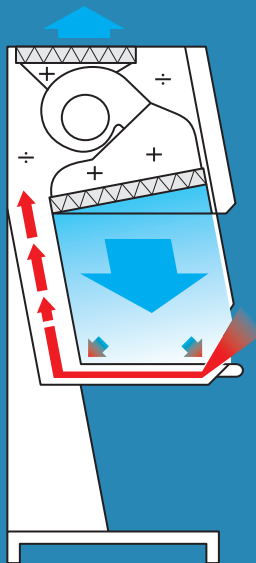
- Angled main filter in the work chamber ensures unidirectional, turbulence-free air flow, ensuring optimum product protection
- Cabinet construction makes it easy to carry it through most doors
- UV light Integrated on the back wall does not interfere with the airflow

Easy service

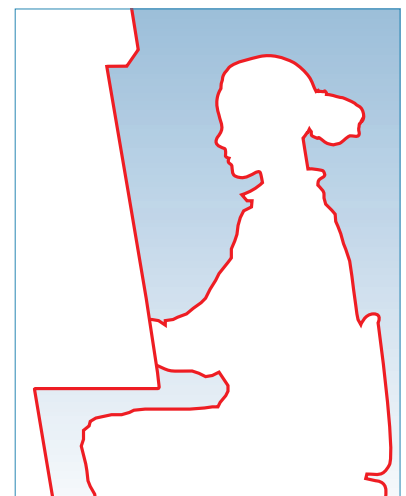
- All corners are rounded for easy cleaning
- Sliding and hinged window allows thorough cleaning of inner surfaces
- All servicing can be done from the front of the cabinet
- Quick and safe filter exchange with easy straps
- Test valve is mounted on the back wall of the work chamber for easy HEPA filter test

Thermo Scientific Holten Safe 2010

Holten Safe 2010 Class II cabinets are equipped with two HEPA filters in the top of the cabinet, one main filter and one exhaust filter. 70% of the air volume is recirculated, 30% is exhausted.



Blue: Clean Air
Red: Contaminated air
(-) Negative pressure
(+) Positive Pressure





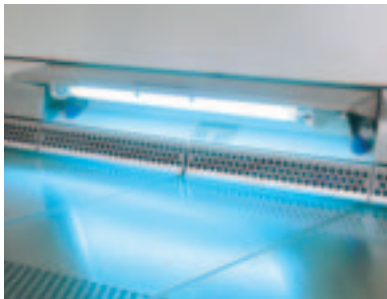
Combined sliding hinged glass window

Our Holten Safe 2010 and Maxi Safe 2010 are the first Class II cabinets to offer a motorised double-function front window, which completely seals the working chamber, even on the lowest setting. Use sliding mode for working with samples and hinged mode for easy, effective and safe cleaning.



Sloping front

The ergonomically correct sloping front makes work standing up or sitting down equally easy. All-round vision and straightforward access to the chamber ensures the best working positions for head and shoulders as well as your back and arms.



UV Light

As an option, UV light can be integrated into the back wall which eliminates airflow disturbance inside the work chamber.



Silent running

Operating at only 55 dBA, the Safe 2010 enhances the working environment for both operator and laboratory. The noise level is measured at a height of 1.5m and a distance of 0.5m, with an air velocity of 0.4 m/s.

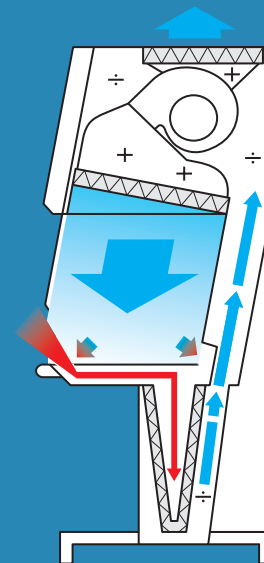


Microprocessor controlled

The LCD panel clearly displays your options. The timer allows pre-setting for automatic start-up, reduced speed, UV light and gives clear indication of filter change times. The alarm sounds for any malfunction.



Thermo Scientific Holten
Maxi Safe 2010



Thermo Scientific Holten Maxi Safe 2010

Our Holten Maxi Safe 2010 Class II cabinets are equipped with three HEPA filters. Two HEPA filters in the top and one HEPA filter under the table top ensure a minimum contaminated area and long lifetime for both exhaust and main filters.

Blue: Clean Air
Red: Contaminated air
(-) Negative pressure
(+) Positive Pressure

Thermo Scientific Holten Safe and Holten Maxi Safe

Specifications	Safe Model 0.9	Maxi Safe	Safe Model 1.2	Maxi Safe	Safe Model 1.5	Maxi Safe	Safe Model 1.8	Maxi Safe
Product dimensions								
Int. dims (H * x W x D**) (mm)	725/650x900x580	725/650x1200x580		725/650x1500x580		725/650x1800x580		
Ext. dims (H x W x D) (mm)	1320x1040x895	2000x1040x895	1320x1340x895	2000x1340x895	1320x1640x895	2000x1640x895	1320x1940x895	2000x1940x895
Frontal opening (mm)	200		200		200		200	
Weight (kg)	200	225	225	250	270	315	300	355
Shipping volume (m³)	1.8	2.6	2.2	3.3	2.8	4.2	3.4	5
Power specifications								
Power (Amps)	1.6		1.8		2.6		3	
Power consumption (Watts)	500		600		700		800	
HEPA filter efficiency								
Exhaust flowrate (m³/h)	99.995% MPPS =H14		99.995% MPPS =H14		99.995% MPPS =H14		99.995% MPPS =H14	
Noise level (dBA)	300+10%		400+10%		500+10%		600+10%	
Light intensity (Lux)	55	57	57	59	58	59	58	59
	> 1200		> 1200		> 1200		> 1200	

* ± 20mm ** Can be narrower for transportation when tilted

Ordering information	Safe Model 0.9	Maxi Safe	Safe Model 1.2	Maxi Safe	Safe Model 1.5	Maxi Safe	Safe Model 1.8	Maxi Safe
Catalogue Number (230V–50Hz)								
	82070100	82019100	82071100	82020100	82076100	82023100	82078100	82024100
Options								
UV light	57240240		57240240		57260240		57270240	
Elec. adjustable support stand Height 700-1000 mm	8205009	82004709	82005012	82004712	82005015	82004715	82005018	82004718
Accessories								
Support stand, height 760-800 mm	57240220	incl.	757250220	incl.	57260220	incl.	57270220	incl.
Support stand, height 880-920 mm	57240221	–	57250221	–	57260221	–	57270221	–
Anti-blow back valve	57240243		57240243		57260243		57240243	
Gas valve	8010022		8010022		8010022		8010022	
CO ₂ valve	8010024		8010024		8010024		8010024	
Vacuum valve	8010025		8010025		8010025		8010025	
Electrical outlets								
	1 on each side		1 on each side		2 on each side		2 on each side	
	0.9		1.2/1.5/1.8		0.9		1.2/1.5/1.8	
German standard	57240204		47260204		57240213		47260213	
British standard	57240203		47260203		57240214		47260214	
Danish standard	57240202		47260202		57240212		47260212	
Swiss standard	57240207		47260207		57240216		47260216	
French standard	57240206		47260206		57240215		47260215	

All cabinets are carefully constructed and tested according to the demands stipulated by EN 12469.

EN Approval Holten Safe 2010 model 1.2, 1.5 and 1.8 according to EN 12469. TUV approval Thermo Scientific

Holten Maxi Safe 2010 model 1.2, 1.5 and 1.8 according to EN 12469 and DIN 12980.



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