



## UNIFLOW UVUB

### Class II Microbiological Safety Cabinets

**UVUB Microbiological Safety Cabinets** belong to the latest generation of laminar airflow systems manufactured by UniEquip, in which the choice of materials of construction of the highest quality guarantees conformity to the strictest safety standards.

UVUB vertical laminar flow cabinets are class II Microbiological Safety Cabinets – designed and built to performance requirements of the EN -12469:2000 European Standard, with 70% of the air re-circulated via the main Class H14 HEPA filter within the cabinet, whilst the remaining 30% are discharged through an exhaust Class H14 HEPA Filter.

### Safety Cabinets with automatic regulation and microprocessor based monitoring systems.

These cabinets are suitable for handling micro organisms and pathogens as defined by the appropriate European and other International Standards, current health and safety guidelines and legislation aimed at safeguarding health and safety of operators at work.



#### Silent operation

- Microprocessor based monitoring system
- High level lightning
- Easy handling and maintenance
- Rear wall in stainless steel AISI 304L
- AISI 316 work surface
- UV sterilization lamp (opt.)
- User-friendly practical keyboard
- Ergonomic design



#### Stay informed about the cabinet >>> LCD Display shows

- laminar airflow velocity and frontal air barrier velocity
- inside and outside temperature
- residual lifetime of HEPA filters, UV lamp and activated carbon filter (if fitted).
- total number of hours of operation
- saturation level of HEPA filters.



#### Audio-visual alarms for

- Out of range or incorrect laminar airflow velocity and frontal air barrier velocity.
- Incorrect position of front sash window
- Saturation of HEPA Filters
- End of life -cycle of UV lamp and saturation of activated carbon filter (if fitted)
- Blockage in the exhaust duct
- Fan-motor malfunction
- Power failure

### Re-circulation and extractor fans

UNIFLOW UVUB Microbiological Safety Cabinets "S" Series are supplied with single centrifugal fan, whilst models of the "D" series with double centrifugal fan to provide complete operator, product and environmental protection.

Moreover the "D" models fitted with double motor fan are designed and are also suitable to discharge the filtered air outside the laboratory through a ducting system if required

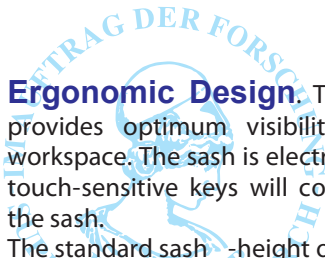
Dimensions and specifications are subject to change without notice for further improvements on design.  
Dimensions may vary dependent on different accessories be used.

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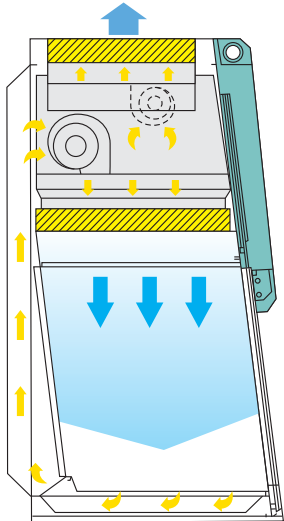


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**Ergonomic Design.** The angled sloping front safety -glass sash provides optimum visibility of all objects placed in the interior workspace. The sash is electrically operated. Pressing the appropriate touch-sensitive keys will completely open or completely close down the sash. The standard sash -height opening during work is set to 250mm. Alternative sash -height settings by the factory are possible upon request. The whole front of the safety cabinet – which includes the sash mechanism – can also be opened upwards as it is hinged on the top – in order to allow easy access for complete and effective cleaning and decontamination.

**Inflatable gasketing** is also available as an option to provide effective sealing of the internal workspace of the chamber for purposes of fumigation/sterilization.

**Silent Operation.** The textile plenum, the structures of the electric motors of the fans fitted on their anti vibration mounts and the software itself designed to provide optimum air handling characteristics guarantee quiet operation of this silent safety cabinet, with sound -pressure levels recorded way below the parameters specified in the current EN:12469 European Standard for Microbiological Safety Cabinets.



## Operational Principles

The ambient air is drawn in from the slots at the stainless -steel base of the front opening and it then passes under the work surface, from where it is drawn up and blown into the plenum of the re -circulating and exhaust fan(s).

The “bio -dynamic sealing system” of the negative pressure plenum ensures that all contaminated particles are kept inside the system and are automatically drawn to the plenum or pressure chamber to be captured by the main re -circulating and exhaust HEPA filters.

The fan system assures that no part of the cabinet comes ever under positive contaminated pressure to the laboratory, thus protecting and preserving the environment and operating personnel from exposure to agents of bio -contamination.

70% of the filtered air is re -circulated (after passing through a H14 HEPA) in a n ISO 5 laminar flow pattern downwards into the work chamber and the remaining 30% is exhausted to atmosphere through another H14 HEPA filter.

Model	Dim. (w x d x h)		Power (V/Hz)	Supply (kW)	Weight (Kg)	Exhaust Dim. (mm)	Work height: 900mm Front aperture: 250mm/ 975 without back panel	
	Int. (mm)	Ext. (mm)						
UVUB 209 S	899x700x600	1045x1500x800	230/50	0,7	170	427x427	Max. aperture: 420mm	
UVUB 212 S	1194x700x600	1350x1500x800		1	195	427x580		
UVUB 215 S	1499x700x600	1655x1500x800		1,2	225	427x732		
UVUB 218 S	1804x700x600	1960x1500x800		1,4	260	427x885	Noise: <57dB(A)	
UVUB 209 D	899x700x600	1045x1500x800		0,85	175	427x427		
UVUB 212 D	1194x700x600	1350x1500x800		1,1	200	427x580	Lighting: > 1000Lux	
UVUB 215 D	1499x700x600	1655x1500x800		1,3	230	427x732		
UVUB 218 D	1804x700x600	1960x1500x800		1,5	265	427x885		
							Temperature rise: <3°C	

**Accessories :** UV Lamp with full programmable timer, Customized work surfaces, Epoxy powder painted modular stand, Stainless Steel modular stand, Electrical adjustable stand, Additional electrical power socket, Additional service connection for gas/vacuum (manual tap), Additional socket for data, additional exhaust carbon filter for “D” models, Additional exhaust HEPA filter for “D” models, Anti-blowback valve, Exhaust hard duct connection, Exhaust thimble connection, 3-Drawers unit on pivoting wheels, Volt free contact, Arm rest, Inflatable Gasket for front sealing, Vacuum pump for inflatable gasket, Sealing kit for opening, Formalin Vaporizer with ammonia neutralization

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