

Horizontal flow laminar cabinets (H series)

Indicated for works requiring a total protection of samples and non contaminating products and without risk for operator and for environment.

- Suitable to work under sterility conditions and absence of particles – by means of a filtered air sweep and impelled in laminar regime- on the work area at a speed of 0,45 m/s. Obtaining class 100 according to the USA federal standard 209e regulation.
- Suitable for pharmaceutical, FIV, food industry, electronic optical...
- Particles count test.
- Filter: HEPA/ ULPA H14 99,999% efficacy for particles over 0,3 microns and 99.995% efficacy for more permeation particles (MPPS) according to EN 1822 norm.
- Prefilter included.
- Work area made of polished stainless steel.
- Side walls made of securized tempered glass.
- Outer construction made of rolled steel epoxy coated.
- Paddle – wheel fan with fitted in motor, balanced.
- Control panel with action switches for : fan, fluorescent lamps and UV lamp.
- Time meter and inner socket.
- Safety device to prevent that fluorescent and UV lamp light at same time.
- Preliminary installation to adapt a differential manometer.
- Preliminary installation to adapt UV kit with UV lamp.
- Fluorescent illumination higher than 800 lux with electronic reactances.



Reference	490480	490550	490780	490960	490980
Model	IDL.48H	IDL.55H	IDL.78H	IDL.96H	IDL.98H
Dimensions mm	WidexHighxDepth	WidexHighxDepth	WidexHighxDepth	WidexHighxDepth	WidexHighxDepth
Inner	740x600x600	900x725x600	1190x725x600	1500x725x600	1800x725x600
Outer	800x1130x940	960x1270x940	1260x1270x940	1565x1270x940	1870x1270x940
Power W	250	250	325	370	380
Weight Kg	95	124	135	155	180
Supply	230V/50-60 Hz				

Accessories: (H, V and RV Series):

490002	Gas	490009	Support table for IDL.48
490003	Vacuum	490010	Support table for IDL.55
490005	UV lamp 48V and 55V	490011	Support table for IDL.78
490006	UV lamp 78V and 96V	490012	Support table for IDL.96
490007	UV lamp 48H and 55H	490013	Support table for IDL.98H
490008	UV lamp 78H, 96H and 98H	490014	Differential manometer

Vertical flow laminar cabinets FLOW-LAN

Vertical V series and Vertical recirculated (RV series)

- Indicated for works requiring a total protection of samples and non contaminating products and without risk for operator and for environment (V series) and for a higher protection for both (RV series).
- Non suitable for pathogenic samples works.
- Suitable to work under sterility conditions and absence of particles – by means of a filtered air sweep and impelled in laminar regime- on the work area at a speed of 0,45 m/s. Obtaining class 100 according to the USA federal standard 209e regulation.
- Filter: HEPA/ ULPA H14 99,999% efficacy for particles over 0,3 microns and 99.995% efficacy for more permeation particles (MPPS) according to EN 1822 norm.
- **RV models:** (30/70% recirculation) have a second HEPA H14 absolut filter located at the 30% treated air extraction volume, making a draw-down in the working area and obtaining a 70% continuous recirculation of the treated air, giving a higher protection to the operator and to the environment.
- Working area made of polished stainless steel.
- Side walls made of securized tempered glass, UV resistant.
- Outer construction made of roled steel epoxy coated.
- Paddle-wheel fan with high efficiency motor with speed regulation.
- Air speed 0,45 m/sec.
- Control panel with action switches for : fan, illumination lamps and UV lamp.
- Time meter and inner socket.
- Safety device for UV lamp.
- Fluorescent illumination at 800 lux.
- Noise level <58 dB

Optional:

- Filter fullfilling alarm with optical and acustical signal.
- Air speed digital indicator in display, with thermoanemometric probe.
- Gas and vacuum taps
- Support table.



Reference	493480	494480	493550	494550	493780	494780	493960	493960
Model	IDL 48V	IDL R48V	IDL 55V	IDL R55V	IDL 78V	IDL R78V	IDL 96V	IDL R96V
Price								
Dimensions mm	AnchoxAltoxFondo		AnchoxAltoxFondo		AnchoxAltoxFondo		AnchoxAltoxFondo	
Inner	740 x 440 x 500		900 x 700 x 600		1200 x 700 x 600		1500 x 700 x 600	
Outer (V Serie)	800 x 850 x 630		1000 x 1175 x 825		1305 x 1175 x 825		1605 x 1380 x 825	
Outer (RV Serie)	800 x 910 x 630		1000 x 1380 x 825		1305 x 1380 x 825		1605 x 1380 x 825	
Power W	300		500		750		1000	
Weight (V Serie)	75		105		140		155	
Weight (RV Serie)	83		113		150		170	
Supply	230V – 50 Hz							

490030 Air speed digital indicator

490031 Filter fullfilling alarm

More accessories (support tables, taps..)

[see previous page](#)

Vertical flow laminar cabinets recirculated 30/70% SD4 Vertical flow laminar cabinets recirculated 30/70% MINI

Suitable for manipulation of non-pathogenic material, media preparation, plant and animal tissue culture, sterility test, assembling of optical or micro-electronic components, microbiology, molecular biology, PCR....

- Suitable to work under sterility conditions and absence of particles – by means of a filtered air sweep and impelled in laminar regime- on the work area at a speed of 0,45 m/s. Obtaining class 100 according to the USA federal standard 209e regulation.
- 2 HEPA filters 99,999% efficiency on over 3 µm particles, one for 70% treated air recirculation and other in the upper side previous 30% air exhaust (SD4 model).
- For MINI model , filter for previous air exhaust is a filtere air filter with gravimetric efficiency of 99% on 3 µm particles.
- MINI cabinet has the possibility of work in a 30/70% configuration with 30% air treated exhaust through the upper side of cabinet (INWARD), and other (OUTWARD) where 70% air is exhausted through the front opening.
- Filters according MIL-F51068 and BS-3928.
- Removable perforated work surface and back wall of the work chamber made of AISI 304 stainless steel.
- Side panels in securized tempered glass.
- Outer construction made of rolled steel epoxy coated.
- Centrifugal motorblower.
- Air speed 0,45 m/sec.
- Soft touch keys on the control panel provide control of the lighting, motorblower, UV light, solenoid valve (SD4) and power point (SD4).
- Elapsed time meter.
- Safety device to prevent that fluorescent and UV lamp light at same time.
- X/Y sliding sash with three positions: fully open, standard working height, closed: with air and formaldehyde tight. (SD4).
- Optical and acustical alarm for fan failure (SD4).
- Included: inner power point and tap (SD4).



Reference	494770	494470
Model	SD4	MINI
Dimensions mm	WidexHighxDepth	
Inner	1240x650x485	737x510x428
Outer	1355x1457x785	895x815x590
Power Kw	1,7	0,25
Weight	175	57
Illumination	700 lux	1000 lux
Noise level	<58dB	
Vibration	<0,006 mm-RMS	
Electric supply	230V-50 Hz	

Accessories:

- 490022 Support table for SD4
- 490025 UV Kit for SD4
- 490026 Support table for MINI
- 490027 UV Kit for MINI with timer
- 490028 UV Kit for MINI and front closure panel

Class II A microbiological safety cabinet

Class II A microbiological safety cabinet

BIOHAZARD Class II A Microbiological safety cabinet, for personnel and product protection and ambient safety from exposure to biological agents (Class 10 in working surface). 70% of HEPA filtered air is therefore recirculated with the remaining 30% being expelled through a dedicated exhaust HEPA filter.

TÜV certified according to DIN – 12469 norm.

Features:

- Outer construction made of rolled steel with paint finish.
- Inner chamber made of AISI 304 stainless steel with radiussed corners and full access to exposed surfaces for easy of cleaning.
- Removable work surface made of AISI 304 stainless steel with perforated work area and shaped front grille to prevent obstruction air barrier intake.
- Front window made of securized glass with pneumatic lift. Access to microprocessor, change of filters... from cabinet front pannel.
- Supplied with vacuum tap, electrical power outlet and gas tap with safety solenoid valve.
- Main switch with key and 3 positions: 0 stop, 1 work, and 2 program. and UV lamp control.



Inner dimensions (W x D x H): 1185x580x670 mm
Outer dimensions (W x D xH): 1450x785x1440 mm
Weight: 225 Kg
Power requirement: 2,2 Kw
230V-50 Hz

Microprocessor controlled with alphanumeric screen, located in a non contaminated zone, and give us the following information:

- Exhaust airflow rate m/hour.
- Air speed in m/sec.
- Date and time
- Cabinets run hours.
- Control and programming up to 24 hours for UV lamp.

Visible and audible alarms visualized in control panel to control:

- Exhaust air flow rate, with alarm when it is insufficient.
- Laminar air flow speed , with alarm when it is insufficient.
- Front window open or not closed securely.
- Gas supply, with automatic shutdown when an electrical failure occurs.
- Motor failure during expulsion and motor failure during impulsion.
- Control of inner socket.
- Control of the lighting of fluorescent lamp and UV lamp.

Standard outfit:

- 2 HEPA filters H14 99,999% efficiency.
- Variable speed centrifugal fan with built-in thermal cut-out.
- Lighting 800 lux.
- Noise level < 58dB.
- Kit with 30 Watt UV lamp and 253,7 nm wavelength.



- Certifications: (AFNOR-TÜV)
EN-12469 and DIN-12950

496960 Class IIA microbiological safety cabinet IDL.14SB-MA C

Accessories:

490112 Support table 1500 x 800 x 900 mm