

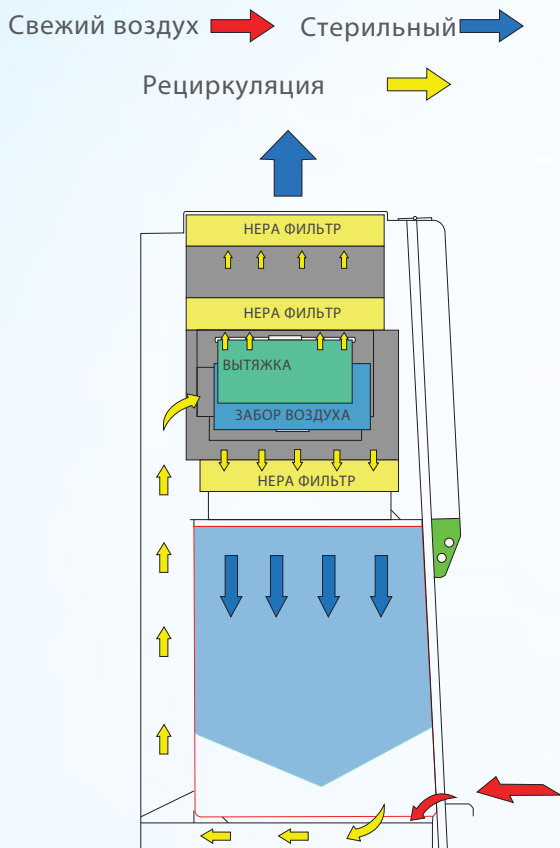


HyZone

Микробиологический
ламинарный шкаф

Класс II

для защиты оператора,
окружающей среды и
продукта.



Principle of Operation

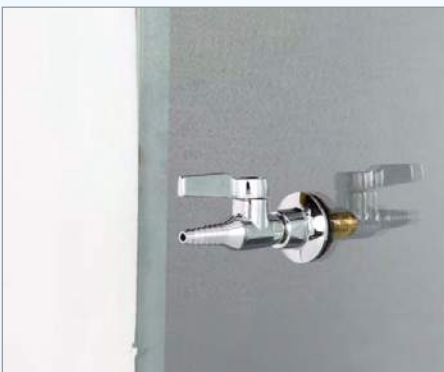
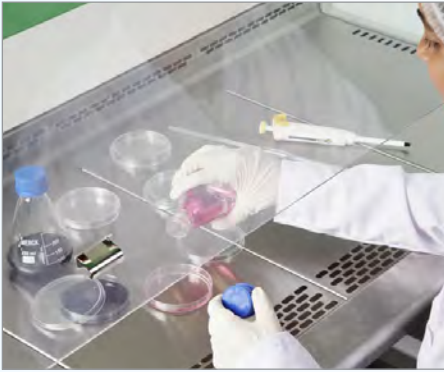
Свежий воздух всасывается через прорези в передней части. Этот воздух проходит под рабочей поверхностью и соединяется с камерой рециркуляционного воздуха. Затем главный вентилятор нагнетает воздух в другую камеру, в которой также находятся приточный HEPA-фильтр, камера вытяжки и вытяжные HEPA-фильтры. Барьер для внутреннего воздушного потока предотвращает попадание загрязняющих веществ в рабочую зону.

Инновационная конструкция бокса и расположение приточных и вытяжных камер HEPA в отрицательной оболочке гарантируют предотвращение случайных утечек воздуха.

Общие технические характеристики боксов микробиологической безопасности HyZone класса II

		A2003	A2004
		0.9 (3')	1.2 (4')
()	Without Base Stand	1035 x 800 x 1470 мм	1340 x 800 x 1470 мм
	With Base Stand, 711мм	1035 x 800 x 2181 мм	1340 x 800 x 2181 мм
(x x)		982 x 563 x 670 мм	1270 x 563 x 670 мм
HEPA	Inflow	0.45 m/s (90 FPM) +/- 20%	
	Downflow	0.30 to 0.45 m/s (60 to 90 FPM) with uniformity of better than +/- 20%	
HEPA	Downflow	>99.997% at 0.3 micron, H 14 as per EN 1822	
	Exhaust		
	Cabinet	<62 dBA at 45 dBA ambient	<62 dBA at 45 dBA ambient
		>1200 Lux (>100 foot candles)	>1200 Lux (>100 foot candles)
	Main Body	1.2 mm (0.05") 18 gauge steel with powder-coated finish	1.2 mm (0.05") 18 gauge steel with powder-coated finish
	Work table	1.5 mm (0.06") 16 gauge stainless steel, type 304,	1.5 mm (0.06") 16 gauge stainless steel, type 304,
	Side Walls	UV absorbing tempered glass, 5 mm (0.2"), transparent	UV absorbing tempered glass, 5 mm (0.2"), transparent
220-240V, AC, 50Hz, 1Φ			
	Cabinet Power/ Amp	450 W / 2.5 AMP	500 W / 3 AMP

HyZone Class II Microbiological Safety Cabinets



HyZone Class II Microbiological Safety Cabinets from ThermoLab blend knowledge, experience and innovative design changes in creating state-of-the-art equipment as part of its offerings. HyZone is a Class II Microbiological Cabinet, designed and built to meet, if not exceed, performance requirements of the EN 12469:2000 Standard. 70% air is re-circulated through the main H14 HEPA Filter within the cabinet, while the remaining 30% is exhausted through two H14 HEPA filters in series.

HyZone Cabinets are suitable for handling microorganisms and pathogens as defined by the appropriate International Standards, current health and safety guidelines and legislation aimed at safeguarding health and safety of operators at work.

95 % of your requirements are met by Class II A2 Cabinets. However, Class I and Class III cabinets can be manufactured if your work so warrants.

Salient features of HyZone Class II Microbiological Safety Cabinets

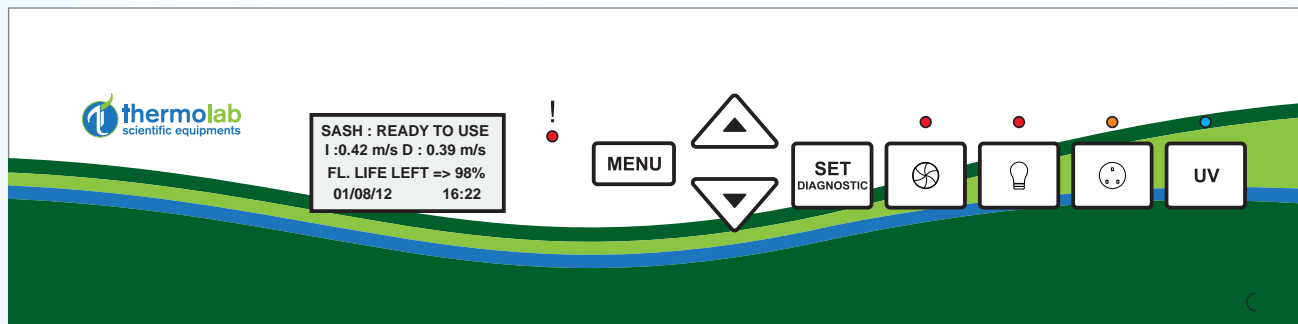
- Independent blowers for Supply and Exhaust air
- Double HEPA filtration of Exhaust air
- Negative pressure envelope (shroud) for HEPA filter Plenums and Return air path to prevent escape of Contaminated air to atmosphere and work area
- Simultaneous real time monitoring and display of Supply and Exhaust air velocities
- Monitoring of work area temperature
- Sliding front sash with counter weights for easy operation
- Microprocessor controlled operations with Normal, Fast Start and Service modes and alarms
- Ergonomic design like angled front sash, arm rest etc., for operator comfort
- RS 232 connectivity
- EN 12469:2000 compliant



Soft Touch Keyboard

Membrane touch keyboard and the rear-lit LCD display all required data keeping the operator constantly up to date of the cabinet conditions:

- Estimated life of HEPA filters
- Estimated life of UV lamp
- Cabinet Temperature
- Laminar airflow (Unidirectional Down Flow) velocity and frontal air barrier (in flow) velocity
- Front sash position



Audio Visual alarms are provided for :

- Out of range or incorrect laminar airflow velocity and frontal air barrier velocity
- Incorrect position of front sash-window
- Clogging of HEPA filters
- End of life-cycle of UV Lamp
- Out of range temperature

APPLICATIONS AREAS :

- Microbiology
- Medical Devices
- Virology
- Pharmaceuticals
- Haematology
- Pathology
- Cell culture
- Blood Bank
- Recombinant – DNA
- Eye Bank
- Stem Cells Research
- Reconstitution of Parenteral drugs
- Biotechnology
- Genetics.



Quality Assurance

Each unit is factory tested to meet international guidelines and dispatched in ready-to-plug-in condition. ThermoLab's testing services are available to assist you in routine maintenance and revalidation.



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