

**Universal Safety Fume Hood**  
**Model: ADL-FC1200 / ADL-FC1500 / ADL-FC1800**



AdLab Instruments private ( Europe) Ltd.

OSHA report released in 1990 shows the following fact:  
 Average life span of laboratory personnel is 10 years less than that of normal people!  
 The reason directly refers to → leakage rate of fume hood  
 The real safety index of fume hood is the leakage rate, not face velocity!

### Evolution of Standard on Fume Hood Leakage Rate

Standard	SF value(upper limit of tracer gas of fume hood)
ASHRAE110-1985 (US standard)	0.5ppm
1990 US OSHA report	Average life span of laboratory personnel is 10 years less than that of normal people!
ASHRAE110-1995(US standard)	0.5ppm
JB/T6412-1999(China standard)	0.5ppm

### Existing Problems

Laboratory safety is seriously substandard	One of reason: Until 2017, leakage rate isn't known by market.
Heavy taste of chemicals which shouldn't be smelled	Majority of tenders don't stipulate the requirement of leakage rate.
ASHRAE110-1995(US standard)	Only very few fume hoods reach 0.05ppm and the majority even do not reach 0.5ppm.
Closed door with high negative pressure	The wind blows when door and window are opened.
Loud noise	

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\*Safer Lab Fume Hood Leakage Rate - 0.00PPM

### Main Advantage

#### Outstanding Safety Performance

SGS test result shows 0.00ppm tested at normal face velocity 0.5m/s according to US standard ASHRAE110-2016, ensuring its excellent safety performance and the health of laboratory operators.

#### Authorized Certification

The certification was issued by SGS, the international authoritative testing agency, responsible for strict tests according to ASHRAE110-2016. The actual parameters far exceeds standard requirements.

#### Good Compatibility

Matches all VAV systems on the market

#### Quality Material Selection

Raw materials and accessories adopt well-known brands in CHINA, ensuring integrated quality from details.

#### Humanized and Intelligent Design

In order to improve user experience, make the operation more convenient and humanized, our fume hood can be equipped with motorized door, infrared sensor and other intelligent devices.

#### Patent Application

The appearance and main structure have applied for national patents.

#### Senior Professional Team

In line with the spirit of independent research, development and innovation, the design team composed of senior experts succeeded in designing the product after countless trials and research within 2 years.

### Accessories Details



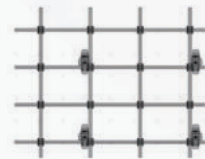
**LCD Controller**  
(Typical)



**Remote Water&Gas Valve**  
Famous brand from CHINA, Gas valve has safety function, UV-chemical resistant



**Remote Water&Gas Cock**  
Famous brand from CHINA, UV chemical resistant. Nitrogen, vacuum, compressed air etc are available



**Grid Frame(Optional)**  
Made up of stainless steel composite frame, glass fiber rod and Synthetic frame connecting rod, strong and chemical resistant



**France Controller (Optional)**  
Showing face velocity(m/s) and make alarm when meeting unproper airflow, for CAV use.



**Polypropylene Cup Sink**  
Strong chemical resistant



**10A/16A Universal Socket**  
Available in most of countries



**VAV System (Optional)**  
Applying top domestic technology, highly sensitive, easy installation. Keeping constant&safe face velocity whatever sash position

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### Product Feature

- By optimizing the structure of the fume hood and combining aerodynamics theory, the working chamber of fume hood can maintain
- smooth airflow under working conditions, reduce turbulence and reverse airflow and improve the overall safety of the product.
- Particularly designed exhaust canopy on the top of fume hood, made of special fire-resistant material and it helps exhaust noxious air
- effectively and completely.
- With specially designed arc aluminum alloy handle satisfying smooth airflow entry to working chamber.
- It perfectly matches with VAV system, auto sash and some appliances such face velocity, anti-collision and infrared sensors etc.
- Strong capability to customize fume hood to satisfy specific requirements of clients.
- Product modular design and dismantled structure, which help save transportation costs and make installation more convenient.

### Technical Specification

Type	ADL-FC1200	ADL-FC1500	ADL-FC1800	
Exterior	1200x850x2350	1500x850x2350	1800x850x2350	
Interior size (LxDxH)	920x630x1180	1220x630x1180	1520x630x1180	
Working height	850mm			
Material	Cold-rolled steel coated with Akzonobel anti-corrosive epoxy resin powder.			
	Lining: 5mm phenolic resin panel/ceramic fiber panel, chemical resistant and easy to be dismantled and cleaned without tool.			
	Worktop: 19mm thick solid epoxy resin with 25mm thick water proof edge/ceramic/ lab grade phenolic resin etc.			
	Sash: two pcs of 5mm toughened safety glass, with high quality long aluminum handle. Height can be moved up and down freely and it can be stopped at any position.			
Sash max opening	780mm			
Power supply	220/380V, 50/60Hz, single or three phase.			
Noise	<65dB			
Air face velocity	Average 0.3~0.5m/s			
Illumination	>400LUX, LED lighting, insulated from air by tempered glass.			
Diameter of exhaust outlet	250mm			
Standard accessories	LCD controller, LED lamp, remote water and gas fittings with safety function, 4 universal sockets, leakage protector, emergency button, PP cup sink etc.			
Optional accessories	Centrifugation fan, France digital controller with sensor, VAV system, motorized sash, grid frame etc.			
Packing size	Upper cabinet	1250x900x1650mm	1550x900x1650mm	1850x900x1650mm
	Base cabinet	1250x870x1000mm	1550x870x1000mm	1850x870x1000mm

*\*Technical Data Subject to change without notice.*

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AdLab is a globally recognized brand specializing in the manufacturing and supply of high-quality laboratory equipment and textile testing instruments. With over 15 years of experience, we are committed to delivering precision-engineered solutions that meet the needs of industries such as textiles, pharmaceuticals, research laboratories, and educational institutions. Our products are designed to enhance efficiency, accuracy, and reliability in scientific and industrial applications.

## Our Skill

At AdLab, we combine expertise in precision engineering with advanced laboratory technology to create innovative and reliable testing instruments. Our team of skilled professionals continuously works on improving product designs, integrating the latest advancements in technology, and ensuring compliance with international quality standards. With a strong focus on research and development, we provide customized solutions that cater to the unique needs of our customers worldwide.

## Our Products

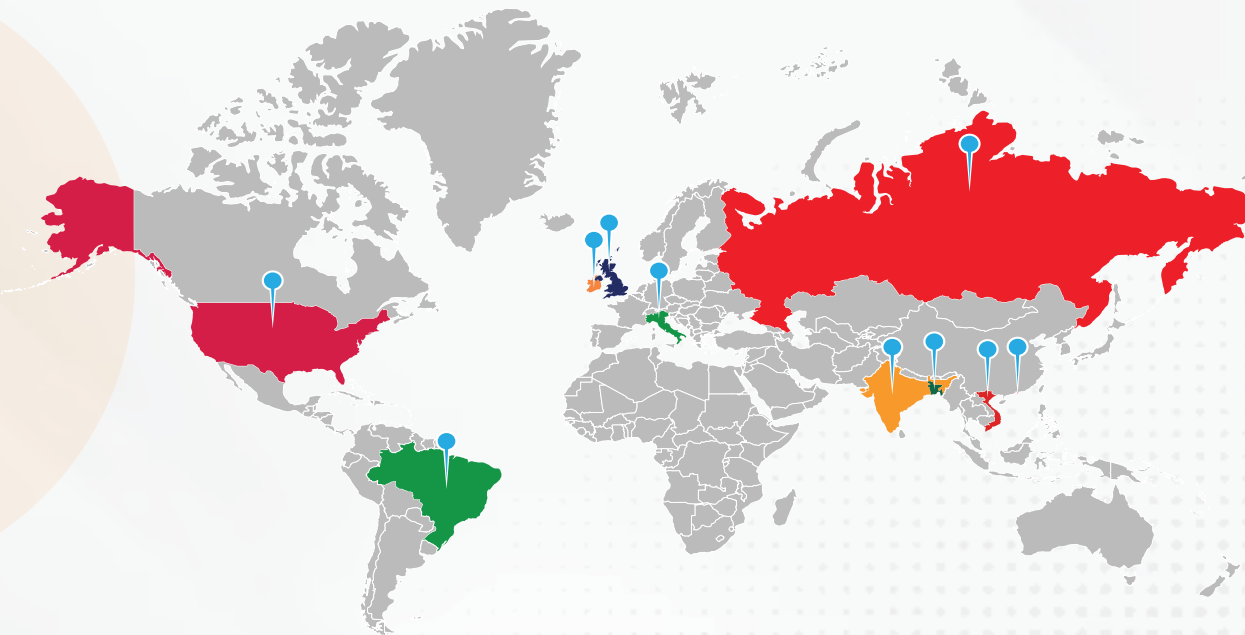
AdLab offers a wide range of high-quality laboratory and textile testing instruments, including Yarn & Fiber Testing Instruments, Laboratory Fume Hood Chambers, Ovens & Incubators, Water Baths, Textile Testing Instruments, Dyeing & Finishing Machines, Ceramic Testing, Tensile Testing, Washers & Dryers, Needle Detectors, and In-House Testing Equipment. Designed for precision and efficiency, our products ensure accurate testing and reliable performance across various industries.

## Our Services

At AdLab, customer satisfaction is our top priority. We provide comprehensive support services to ensure the smooth operation of our equipment, including:

- ✓ 24/7 Technical Support Team – Our highly trained technical support team is available around the clock to assist with troubleshooting, maintenance, and operational guidance. Whether you need immediate assistance or expert advice, we are always ready to help.
- ✓ Installation & Training – We offer professional installation services and hands-on training to help users operate our equipment efficiently.
- ✓ Calibration & Maintenance – Regular calibration and maintenance services ensure that your laboratory instruments remain accurate and in optimal working condition.
- ✓ Customized Solutions – We provide tailored solutions to meet specific industry requirements, helping our clients achieve maximum efficiency in their operations.

## Global Networks



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