

Ductless Fume Hood FM-DFL-A200

Operational Manual

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1. Safety Measures

- Fume hoods are essential safety equipment. To guarantee safety and proper use, carefully read the directions and precautions and take part in relevant laboratory safety and skills training.
- Avoid placing equipment near the door, a window, or a corridor where people are strolling. It is not permitted to stretch your head inside during the trial.
- Ductless fume hoods contain UV and fluorescent lamps, which can hurt the operator's eyes. When the operator is in use, do not turn on the UV lamp for sterilization.
- During the experiment, the height of the windowsill should not exceed 30cm above the table, and the ideal dustproof level should be less than 10 cm.
- To avoid being crushed by the handle, move gently and carefully up and down the window.
- Placement of all experiment materials in the fume hood without proper safety precautions is prohibited. If there is a chemical spill, the electricity should be turned off right away.
- Avoid placing delicate or soft objects on the table while the machine is operating, such as soft paper towels, as this could cause the fan and negative pressure air duct to become clogged and interfere with the operation of the machine.
- > Turn off the electricity and unplug the fluorescent lamp before replacing it.
- Fans, fume hoods, and other equipment need to be maintained and kept clean. Materials that are combustible or explosive should not be kept in the fume hood.
- No equipment should be placed within 150 mm of the window; large experimental equipment should have enough room and not impede airflow.

Note: Our product's colour and shape depend on the material. Changes may occur without warning.

2. Introduction

Ductless Fume Hood FM-DFL-A200 is a floor standing unit with microprocessor control system, and LCD display. Equipped with UV lamp for effective sterilization of working environment. Designed with three side transparent acrylic glass window, front window with reversal design and waterproof sockets, 4 caster wheels for easy movement. Its space-saving design ensures easy integration into various laboratory environments, offering flexibility and convenience in installation.

3. Features

- 1. Double layer structure
- 2. External material made up of cold rolled steel with anti-bacterial powder coating
- 3. Anti-overload and anti-electric shock mechanism
- 4. Audible and visual alarm for changing filter
- 5. Inside and outside probe to detect indoor air pollution and filter conditions

4. Specifications

Model No.	FM-DFL-A200	
Internal Dimension (L×B×H)	920 × 840 × 940 mm	
External Dimension (L×B×H)	1000 × 880 × 2140 mm	
Maximum opening	880 mm	
Work surface height	820 mm	
Air treatment	220 tp1200 m ³ /h	
Noise	50 db	
LED power	LED6W to LED10W	
Main body	1.0 mm thickness cold-rolled steel with	
Main bouy	epoxy resin power coating	
	12.7 mm thick solid physicochemical board	
Work top	(anti-corrosion, anti-acid_, also can choose	
	ceramic and stainless-steel worktop	
Advanced air filtration	Modular filtration technology	
technology	houdin merulion teenhology	
Power consumption	2000 W	
Power supply	220 V	
Weight	128 kg	

5. Applications

Ductless Fume Hood FM-DFL-A200 is used for providing effective working environment for laboratory experiments in various fields of microbiology, chemical, biotechnology, research centers etc.

6. Installation

Step 1: Place the panels on the left and right sides.





Step 2: Fasten the connecting panels on the front and rear sides.







Step 3: The bottom plate joins the side panels on the left and right sides.







Figure-4



Step 5: With the plane pointing in, install the backplane.

Figure-5

Step 6: The upper plexiglass fastening panels are being installed.



Figure-6







Step 8: Place it on the table and cover three sides with glass adhesive.







Step 9: Install plexiglass in the top and lower doors.



Step 10: The installation is finished.



Figure-10

7. Operations

7.1 Display





00 27.c 80)]. ₽_)		 On key description: 27°C is the real-time temperature in the box. ▲ Attention: Filter saturation display function, when the saturation reaches 80%, the audible and visual alarm will prompt the user to change the filter as soon as possible.
_ %	Air Speed	Air Speed	Air Speed	Air Speed	Wind speed key description: Wind speed four change (0, 1, 2, 3).
		0			Time key description: Time can be set arbitrarily, the maximum time can be fixed for 24 hours, after the end of the timing honey-vuvuzelas ring for 10 seconds.
					LED lamp: When the LED lights up, the button is turned off.
					UV lamp: When the UV lamp is turned on, the button is turned off.

7.2 **Operation instructions**

- 1) The balance of the window adjustment will be impacted if the fume hood installation level is not adjusted.
- 2) Professional electricians are required to install the fume hood's electrical component. It is important for the fan's wiring to be aware of the blade direction and avoid hanging the wind direction in the wrong direction.
- 3) The fan motor switch must be turned on before the experiment can begin, and work should begin when the operation is normal. Only after the ventilation has continued for at least fifteen minutes may the fan motor be turned off.
- 4) The panel instructions should be followed when operating and maintaining the fume hood daily.
- 5) The fume hood needs to be maintained by a professional when it is not operating regularly.
- 6) Establishing the ventilation space is the purpose of the fume hood. By successfully removing the hazardous gas and dust generated during the experiment, the clean table will improve the laboratory's working conditions and safeguard the health of the experimental personnel when the ventilation system is activated.

8. Accessories

Standard Accessories

S. No	Accessory Name	Quantity
1	LED Light	1 pc
2	Waterproof Socket	2 pcs
3	Base Cabinet	1 pc

Optional Accessories

S. No	Accessory Name	Quantity
1	Water Tap	1 pc



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