GENERAL PURPOSE FUME HOOD MANUAL

METHOD®
SERVING SINCERE SOLUTIONS

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WARRANTY

Thank you for choosing METHOD. This is to certify that METHOD Fume Hood products are warranty against manufacturing defects for 12 months from the date of installation or 15 months from the date of delivery, whichever comes first. Electric motor for fume hood centrifugal fan has a warranty of 6 months from date of delivery.

TERMS AND CONDITIONS:
METHOD ENTERPRISE SDN BHD warrants to the direct purchaser that the products manufactured by it will be free from defects in material and workmanship for a period as stated above. All products are subject to tolerances and variations consistent with the industry guidelines with appearance and colour, designs, thickness, compositions, and chemical properties. METHOD, based on its examination, will reasonably determine whether a product meets standard industry tolerances or is non-conforming according to this warranty. This warranty does not cover products, components accessories, or parts manufactured by a party not affiliated by ownership with METHOD unless added to the products METHOD or specifically authorized in writing by METHOD. This warranty also does not cover ordinary maintenance, wear and tear within the consumable life of a product; abuse, neglect, misuse, improper handling or storage, alterations, and repair which have not been performed by an authorized METHOD representative and products that have not been maintained by METHOD's written instructions.

The foregoing warranty is exclusive and in place of all other warranties, expressed or implied including but not limited to warranties of merchantability or fitness for a particular purpose.

METHOD will repair or replace, as its option, any products that are covered by this warranty and that are found to be defective. No repair or replacement will extend the applicable warranty period. The foregoing represents the purchaser's exclusive remedy in the event of a breach of this warranty. Besides, in no event will METHOD be liable in breach of warranty, contract, tort, strict liability, or under any other legal theory, for any indirect, incidental, consequential, special punitive, and/or exemplary damages, losses, or expenses o loss of profit, revenue or data, regardless of whether the purchaser was informed about the possibility of such damages, and in no event will METHOD's total liability exceed the amount equal to the sales price of the product giving rise to liability.

No claim under this warranty will be valid unless the purchaser notifies METHOD within a reasonable time of its discovery of any alleged defect, but in any event before the expiration of the applicable warranty period. The purchaser will give METHOD a reasonable opportunity to inspect any allegedly defective product, If instructed by METHOD, the purchaser will return any defective product in compliance with METHOD's shipping instruction.

No third party is authorized to bind METHOD to any representation or warranty beyond what is specifically described within this document. This warranty may only be modified through a written document executed by an officer or director of METHOD.

PREQUISITES

Before installation of your laboratory fume hood, you will need to prepare your site for installation. Please consider the below factors in determining the location to install your hood.

LOCATION REQUIREMENTS:

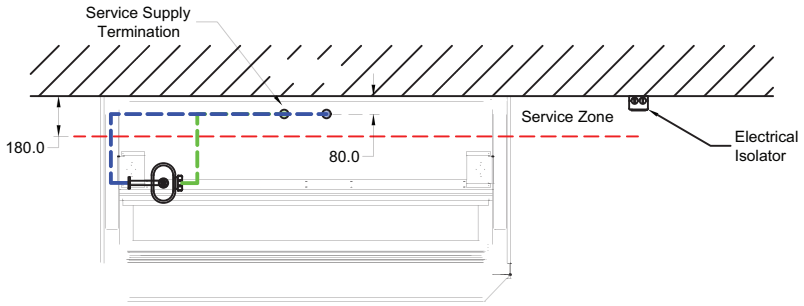
The fume hood is best located away from high traffic areas, doors, windows, fans, ventilation registers, and any other air-handling device that could disrupt its airflow patterns. Examine the space that is required for the fume hood. Consider the exhaust system and design from the location of the hood within the building to the exterior of the building.

ELECTRICAL POWER REQUIREMENTS:

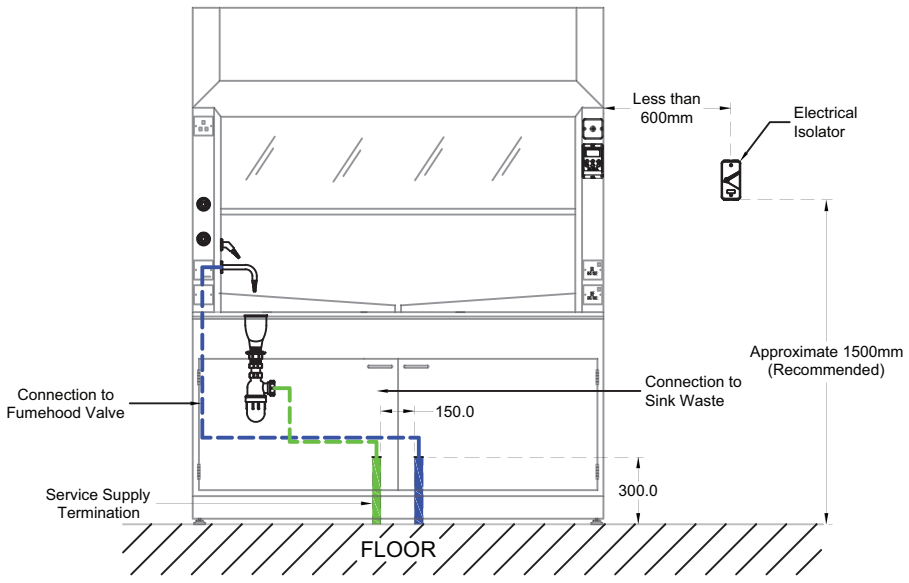
A dedicated source of electrical power must be located near the fume hood. A 20 amp power isolator has to been provided. Isolator capacity may be different for a larger-size fan.

SERVICE LINE REQUIREMENTS:

All service lines to the fume hood should be located within the boundaries of the hoof and no further than 180mm (centre of services) from the wall. All service lines should be equipped with a shut-off valve. If the pressure on the service line exceeds 2 bar, it is recommended to have a pressure regulator to reduce the line pressure. A waste water line will also be needed if there is a requirement for water service with sinks or drip cups.

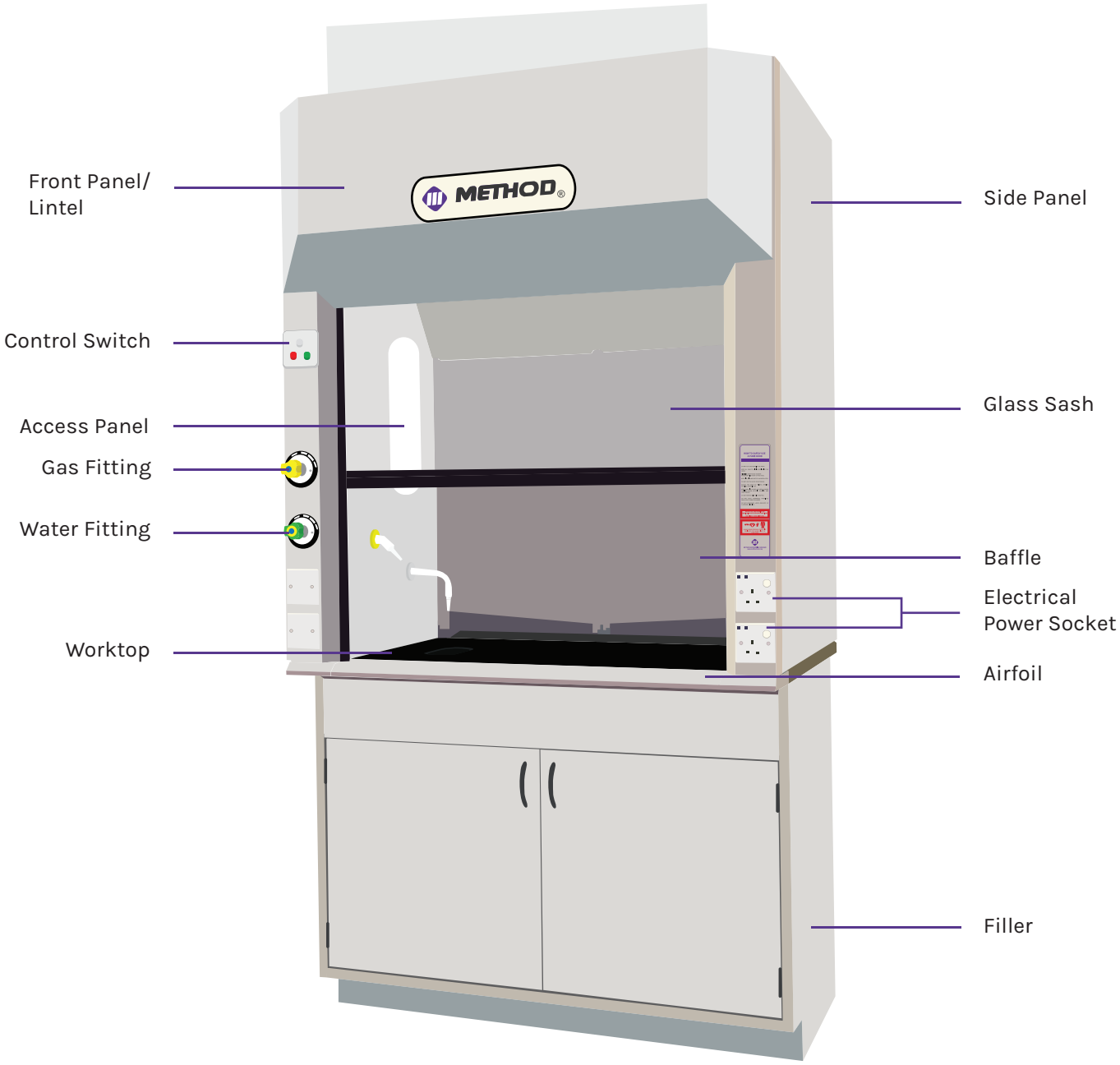


TOP VIEW



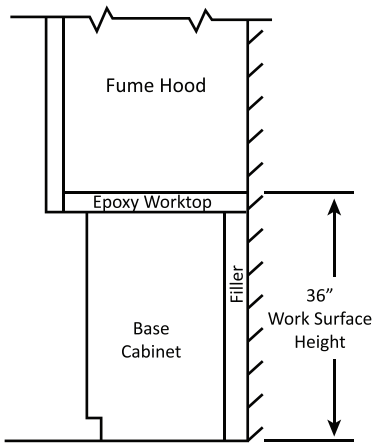
FRONT VIEW

GENERAL INFORMATION

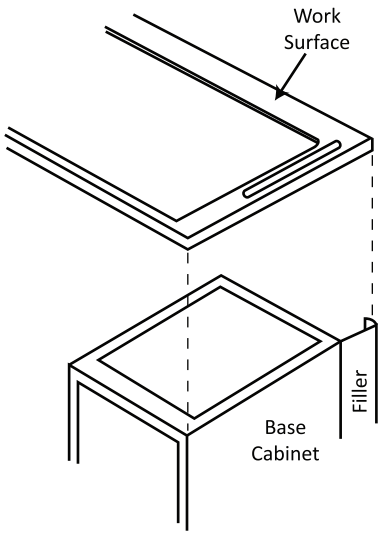


INSTALLATION

1 Position the base cabinet and install the filler on each side of the base cabinet. If needed adjust filler to floor skirts, modification on fillers can be done using metal sheet hand tools.



2 Place worktop onto the base cabinet. Align the back edge of workshop and base filler.



3 Remove the screws which secure counter balance weight pan behind of the fume hood. Fully close the glass sash.

4 Lift and carefully place the fume hood on the work surface. The back edge of the fume hood and workshop shall be aligned.

5 Lift up and remove the side panels to install service fixtures, if needed.

INSTALLATION

6 Install the drip cup or sink to the worktop by using industrial grade silicon adhesive.

7 Install the bottle trap to the drip cup or sink and connect the waste piping.

8 Contact technical services such as water, gas (if needed) according to local building code standards.

If fitting is:
BM XXX-CT = use 10 mm compression fitting


BM 112-CT


1x

If fitting is:
BM XXX-SC = use


BM 112-SC


2x


PU HOse


Female Thread


BM 133-OA1

9 Install and affix the duct system to the top of the fume hood. Method recommends minimum 8" for 4/5 feet and 10" for 6 feet fume hood.

10 Connect the wiring for control switch to the fan and light. Connect the plug socket points for the fume hood. Kindly speak to our representative for wiring details.

11 Test and commission the fume hood in accordance to relevant standards and requirements. Click here for the calibration video and here for the installation manual.

OPERATING THE FUME HOOD

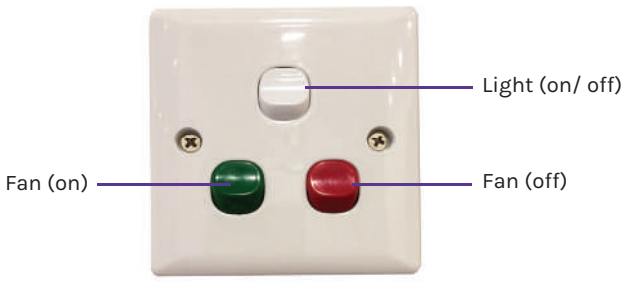
Please follow the instructions when operating the fume hood to avoid serious injuries.

1. This fume hood can generally be used for most common chemicals and chemical processes. Do not use the fume hood for perchloric acid processes. If in doubt, please consult with safety representative or manufacturer.

2. Before using, check the fume hood exhaust system and controls are operating properly. If there is an air flow monitor, ensure all air flow monitor is functioning and calibrated.

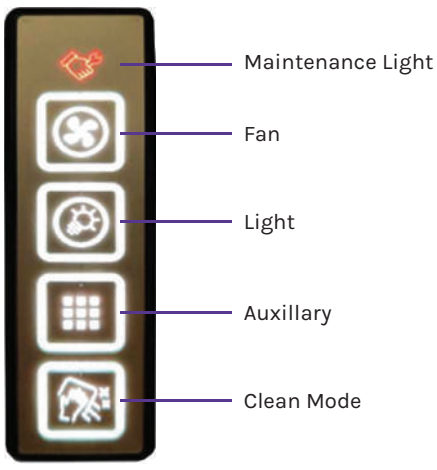
3. To power up the fume hood, switch on the isolator.

4. To operate the fan, press the green button on the control switch. Method recommends to switch on the fan for at least 1 minute before use to purge the duct system.



BASIC

FC- AL01/ FC-AF01



FC-TS100A

*Please refer to Controller Manual for more info

OPERATING THE FUME HOOD

5 To turn off the fan, press the red button on the control switch. Method recommends to keep the fan operating for at least 1 minute after use to purge the duct system.

6 Lighting can be switched on by pressing the light button on the control switch.

7 Ensure chemicals and work materials are at least 150mm from the inside of the sash.

OPERATING THE FUME HOOD

8 When the user is performing work at the fume hood, sash opening is recommended to be at 300mm height, protecting the user's face.

9 Do not ever place head inside the hood.

10 When not in use, lower the fume hood sash to the minimum. The fume hood sash should only be fully opened only for maintenance or placement of equiment.

OPERATING THE FUME HOOD

11 Ensure air flow inside the fume hood is not restricted. Keep baffle entries free from any large items. If needed apparatus should be placed on the fume hood supply shelf. After use, all materials should be removed from the fume hood.

12 To operate service fixture on fume hood, use the remote service control on the fume hood.

13 Dispose waste liquid chemicals after use into the drip cup and flush with water.

14 User should always wear proper personal protective equipment when using the fume hood.


PPE Goggle


Glove


Safety Shoes


Lab Coat

15 Wear gloves when dealing with corrosive chemicals inside the fume hood.

16 Open and close the sash carefully to avoid damage.

17 All electrical devices such as hot plate inside the fume hood should be turned off and unplugged when not in use.

18 In the event of spill, clean immediately.

19 In the event of fire in the fume hood, shut the glass sash and switch off all services and power immediately. Proceed with fire extinguishing procedure.

20 If chemical fumes or odours are present, stop using the fume hood and contact Method for further advice.

21 All heat related experiments may require a higher than average face velocity.

22 Method recommends an annual testing of air flow and maintenance of fume hood.

MAINTENANCE OF FUME HOOD

Proper and timely maintenance is crucial for trouble free functioning of any device and your fume hood is no exception to this rule. We strongly recommend that you follow the maintenance schedule suggested in order to obtain performance from your fume hood.

NO	DESCRIPTION OF TASK TO PERFORM	MAINTENANCE TO BE CARRIED OUT EVERY			
		WEEK	MONTH	QUARTER	1 YEAR
1	Clean the interior work surface and walls	✔			
2	Clean the sash and all glass surface	✔			
3	Airflow patterns check using a source of visible smoke	✔			
4	Inspect the controls of the services of the fume hood		✔		
5	Clean the exterior surface to the fume hood		✔		
6	Clean for any blockages at the fume hood		✔		
7	Determine the face velocity and ensure that the fume hood is operating properly		✔		
8	Inspect the fume hood or any physical abnormalities or malfunction			✔	
9	Check the sash for proper operation			✔	
10	Change the fluorescent lights				✔
11	Recertification by industrial hygiene technician (If required)				✔

CLEANING THE FUME HOOD

- Clean the work surface and walls with appropriate disinfectant and soap water afterward.
- Clean the sash window using and appropriate disinfectant agent and glass afterward.
- Use a damp cloth to clean the exterior surface of the fume hood, particularly on the front and top in order to remove dust that accumulated there.
- Use clean water to finish the cleaning and wash any residue of disinfectant agent, soap water and glass cleaner.
- Ensure that there is no blockage at the baffle entry.