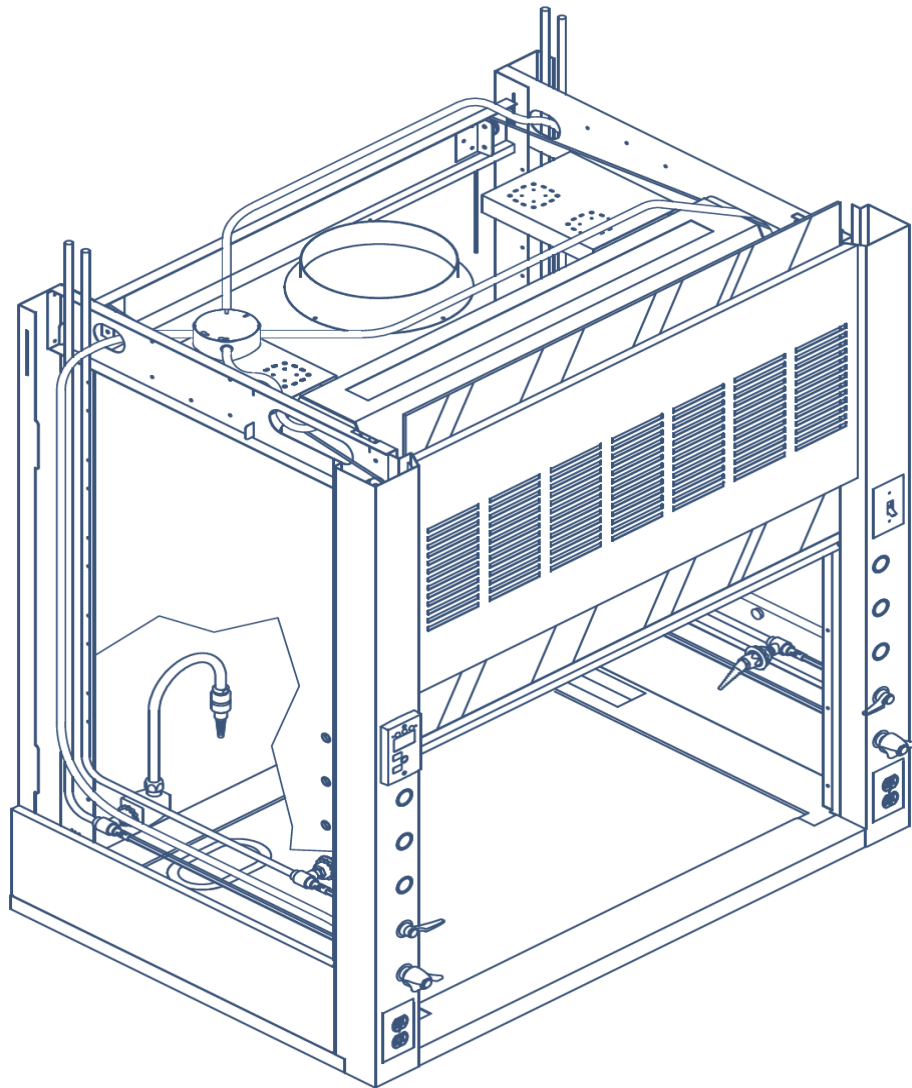




VANGUARD BENCH MOUNTED FUME HOODS

INSTALLATION MANUAL



Superior containment... even at low velocity

PACKING PROCEDURE

Each hood pallet includes:

1. All assembled Fume Hood with electrical and plumbing services
2. Sash Weight fixed at the back of the hood inside the crate
3. Interior baffles put over the fume hood inside the crate
4. Seismic brace (if required) put over the fume hood inside the crate
5. Fume hood Work surface is shipped separately

Packing identification:

- 1. Packing tag on the Fume Hood crate indicates:**
 - a. Project name and number
 - b. Fume hood model number
- 2. Fume hood identification sticker located on Fume Hood post indicates:**
 - a. Model number
 - b. Serial number
 - c. Fabrication date
 - d. Certification
- 3. A Maintenance Manual is taped to the interior side wall of every hood**

INSTALLING BENCH MOUNTED FUME HOODS

1. Base cabinets shall first be installed and leveled at the required location.
2. A support angle of the same length as the fume hood base cabinets shall be installed on the wall to properly support the back of the hood.
3. Counter top shall be set into position (exception: Perchloric acid, Radioisotope fume hoods and any other hoods supply with integral work surfaces) and shall overhang the front of the base cabinet(s) by 25mm (1").
4. Secure non-integral work surface to the base cabinets at a minimum of four (4) locations.

5. BEFORE PLACING THE FUME HOOD ON THE COUNTER TOP, YOU NEED TO REMOVE:

- a. The sash counter weight fixed at the back of the hood:
 - i. If the hood is supplied with a cable system and no closing sash system, you need to unscrew the sash weight from the top back hood frame and hang it from the two (2) cable hooks.
 - ii. If the hood is supplied either with a chain & sprocket system or with a self closing system or with an automatic sash closing system, you need to unscrew the 2 hanging plates from the top back hood frame and let the sash weight hang from the counter weight system.
 - b. The inside top baffle located over the Fume Hood during shipment. Installation of the top baffle should be done **after** the hood is installed at his final location on the counter top.
 - c. The Seismic bracket located over the Fume Hood during shipment. Installation of the bracket should be done **after** the hood is installed at his final location on the counter top.
- 6.** You need to lift the fume hood from corner posts only. Do not lift the hood by the front airfoil or flush sash sill. Set the hood into the right position on the counter top with Fume Hood back flush with the counter top back.
- 7.** For Fume Hood with non-integral counter top, you need to remove the two exterior access panels to access the side wall frame that need to be screw to the counter top. Fume hood with integral counter top should be screw from underneath to the base cabinet.
- 8.** Inside top baffle section should be installed on the hood by simply placing it over the two side mounting brackets. **Refer to DETAIL B**
- 9.** When required and supplied with the hood, you need to install the seismic bracket.
- a. You first need to screw both angle brackets to the top of the back top structure (between the 2 posts)
 - b. You then need to screw the strut to the wall making sure it is well secured into the wall blocking.
- 10.** You need to install non-integral cup sink (optional). Set flush with counter top with sealing under and over the cup sink.

- 11.** When a corrosive or pump cabinet is required to be vented through the fume hood above, a flexible tube need to be installed at the rear of the base cabinet. You need to bring the tube, which is shipped installed inside the Fume Hood wall, downward through the slot in the counter top and to the cabinet connection hardware supplied with the cabinet. For ease of installation, be sure to connect the vent kit prior to the mechanical connections.

You then need to reinstall the Fume Hood outside access panel with the proper fixation.

Refer to DETAIL A.

- 12.** Installation of furring panels between the top of the fume hood and ceiling (optional). **Refer to DETAIL C.**

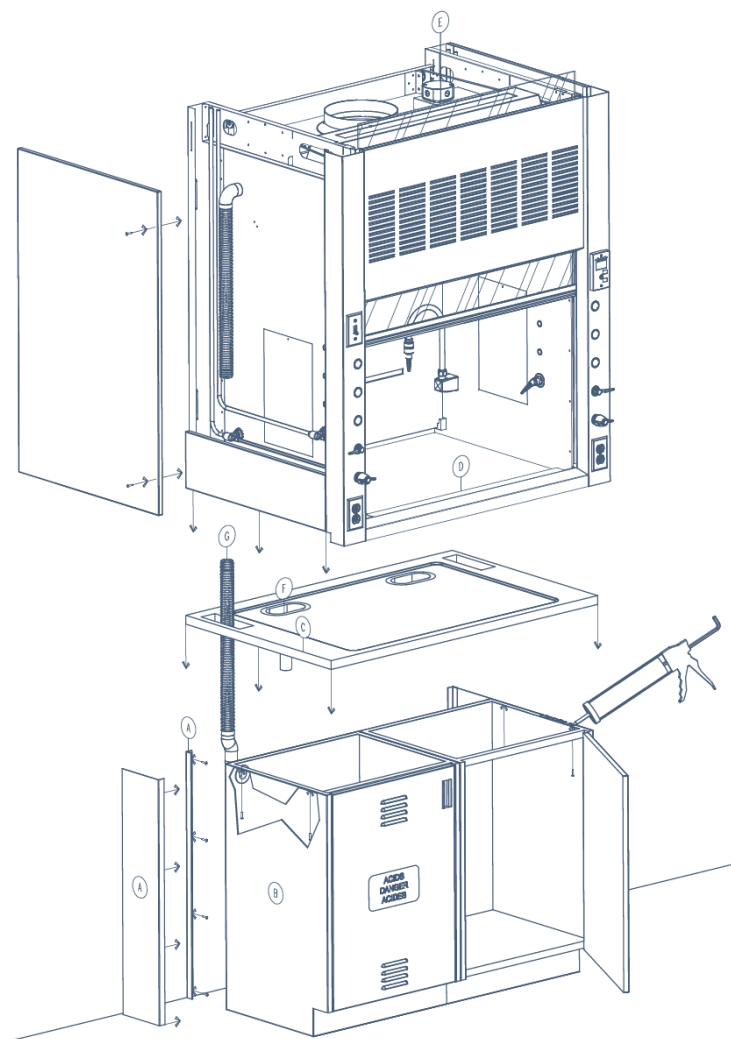
- 13.** The fume hood plumbing, electrical and mechanical connections to the hood services must be done by the proper specialists:

- a. Electrical connections must be done by the electrical contractor to the junction box located over the fume hood. The electrical diagram is located on top of the fluorescent lamp box over the hood.
- b. Plumbing connections for water or gazes must be done by the plumbing contractor to the plumbing lines already installed into the hood wall, 6" over the hood top.
- c. Ventilation connection must be done by the mechanical contractor to the round duct stub located over the hood.

14. Fume hood alarm electrical wiring connection (optional).

- a. If an alarm is supplied with the hood, it is already connected at the factory to an electrical outlet located over the hood. The electrician shall interconnect this plug with the fan switch in 120 volts only. If fan motor has two (2) positions (high and low), alarm shall be connected to the high position. Connect static pressure tip to the duct as shown.
- b. If the hood is to be exhaust through a VAV system, the installation of the control box, hardware and wiring must be done by the mechanical contractor unless it is requested otherwise.
- c. Despite that the fume hood was tested at the factory before it was shipped, **the electrical, plumbing and mechanical contractors must perform the required testing of all systems before putting any fume hood into operation**

FUME HOOD INSTALLATION | DETAIL A



1. Fillers panels:

Find the exact position for the base cabinet(s) and fume hood. Screw in the filler panels angle to the wall and the filler panel to the back of the base cabinet.

2. Leveling:

Adjust all four levelers of all cabinets under the hood to get perfect leveling of the base cabinet.

3. Work surface installation:

Apply clear silicone to the outline of the base cabinet, delicately position the work surface on the base cabinet while making sure it is aligned with the cabinet's side and it touches the wall. Increase solidity by using screws from the inside of the base cabinet.

4. Fume hood installation:

IMPORTANT: Prior to installation, remove counter weight locking system to release sash. Remove top baffle and seismic bracket that are located over the fume hood. Remove access panel from each sides of the fume hood. Lay down the fume hood on the work surface while insuring you align both sides and back with the work surface and secure the frame to the counter top.

5. Options, alarm wiring:

The alarm is connected to a plug over the hood. The electrician shall connect the plug to the blower switch. If the blower as two different speeds, the alarm wiring will only be connected to the high-speed position. Install sensor to the duck stub with 18" clearance from the collar and connect static pressure tubing to the sensor.

6. VAV Control:

If a VAV Control unit is installed on the hood, connections shall be done by a technician from the control company.

7. Options, cup sink installation:

Insert cup sink into work surface dedicated hole, seal cup sink outline.

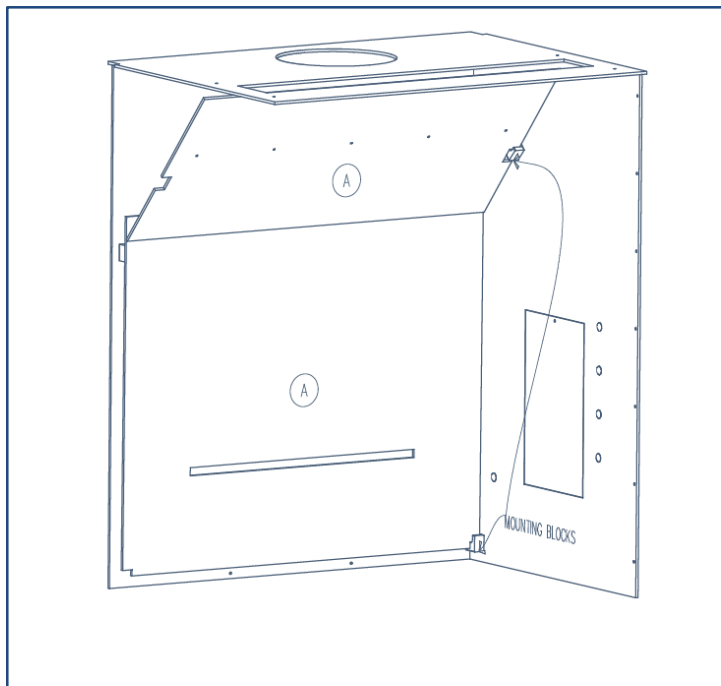
Option, Ventilated base cabinet exhaust pipe connection to the fume hood: Connect flexible pipe to exhaust hole positioned on the upper part of one side of the hood. Allow flexible pipe to run through the service hole of the work surface and connect to the base cabinet exhaust hole.

8. Interior sealing:

You need to seal the interior hood perimeter between the walls and the counter top with clear silicone

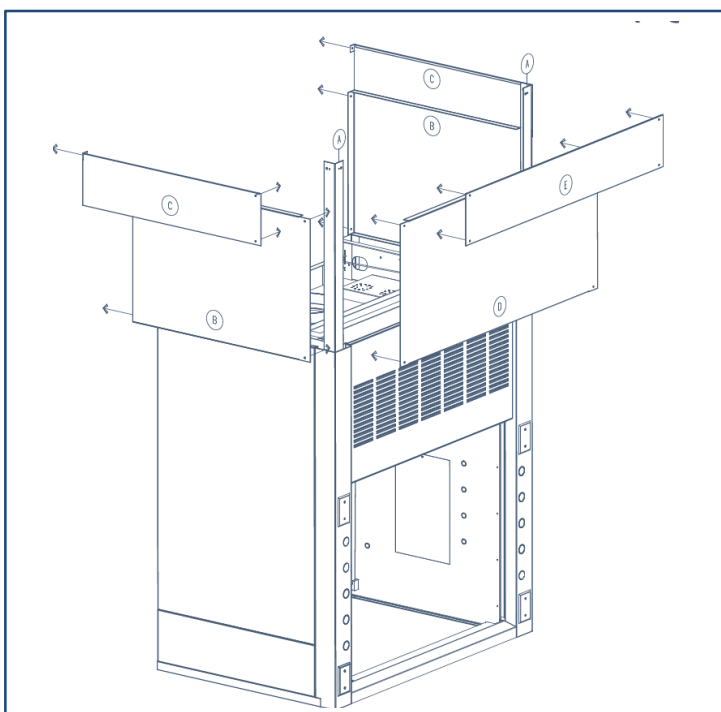
9. Baffle installation: Follow indications from detail "B".

INSTALLING FUME HOOD BAFFLES | DETAIL B



1. PLACE TOP BAFFLE INTO THE MOUNTING BLOCKS ON EACH SIDE OF THE FUME HOOD.
2. PUSH THE PLASTIC CHANNELS (INSTALLED ON THE BAFFLES) TIGHT TO THE WALLS.

INSTALLING FUME HOOD FURRING PANELS | DETAIL C



1. YOU FIRST NEED TO INSTALL SIDE PANELS OVER THE FUME HOOD WALLS BY SECURING THE PANELS TO THE TOP HOOD STRUCTURE AND THE WALL.
2. YOU THEN NEED TO INSTALL THE FRONT PANEL BY INSERTING THE PANEL INTO THE SIDE PANEL FRONT SLOTS AND LOCKING THE STUB INTO CLOSE POSITION.

INSTALLING FUME HOOD SERVICE FITTINGS

Electrical

The fume hood light, light switch and two (2) receptacles shall be pre-wired to a junction box on top of the fume hood superstructure. A qualified electrician shall make connections to the power supply. An electrical diagram of the connections is located over the fluorescent lamp box over the hood.

Plumbing

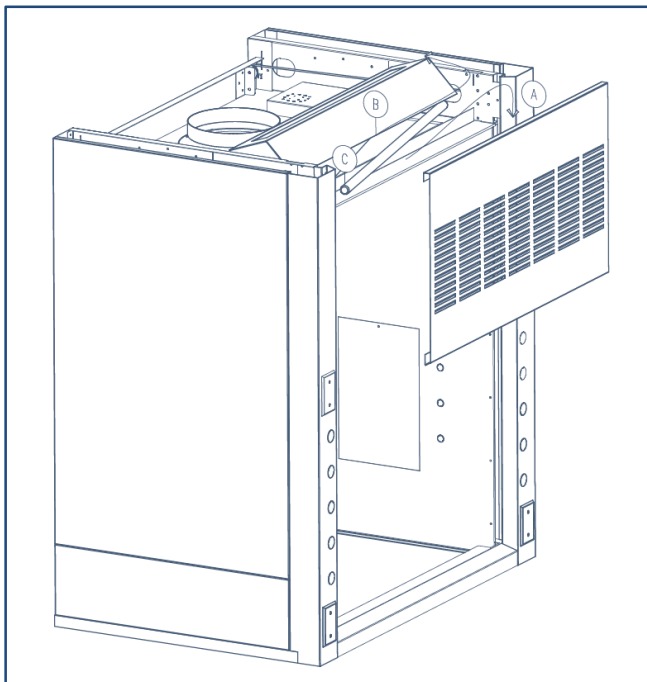
Plumbing connections for water or gases must be done by the plumbing contractor to the plumbing lines already installed into the hood wall, 6" over the hood top.

Exhaust

Ventilation connection must be done by the mechanical contractor to the round duct stub located over the hood.

Special care must be done by the trade subcontractors to make sure that any of the electrical, plumbing and ventilation connections are not in interference with any of the weight sash system components located over the hood.

LIGHT REPLACEMENT



1. REMOVE THE FRONT PANEL OVER THE HOOD.
2. TILT THE LIGHTING BOX TOWARDS THE REAR OF THE FUME HOOD. (OPEN)
3. REPLACE THE DEFECTIVE FLUORESCENT TUBE(S) OR LED LIGHT.
4. RETURN LIGHTING BOX TO ORIGINAL POSITION. (CLOSED)
5. REPLACE FRONT PANEL.

TECHNICAL SERVICES

If you require any additional information, please contact the following addresses for prompt responses.

Supplier and distributor:

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Web site: www.bedcolab.com

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Manufacturer:

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