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## Installation, Operation, Maintenance Manual

### Vented Safety Enclosures

Model Numbers 82400,83600,83601,83602,84800



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## **ENCLOSURE VENTILATION RECOMMENDATIONS**

Proper placement and use of enclosures and blowers are important laboratory ventilation requirements. HEMCO offers the following suggestions to help in planning your enclosure location and laboratory layout.

### **LOCATION OF ENCLOSURE**

- Room airflow patterns and user convenience are the most important considerations in planning the location of enclosures within the laboratory.
- Enclosures placed directly in front of doors, open windows or air conditioning registers will not perform efficiently. The drafts and air currents can interfere with airflow into the enclosure.
- Enclosures should not be placed where users would be forced to work in the line of traffic. Traffic in front of enclosure adversely affects enclosure airflow.
- When common exhaust or supply systems are used for several enclosures the enclosure units should be arranged so minimum amount of duct work is required. Enclosures used as part of air conditioning system to exhaust air from the laboratory should generally be located on the opposite wall from side-wall inlet registers. The enclosures should be placed so that air from registers or diffusers sweeps through the laboratory area first and then into the enclosures.

### **SITE PREPARATION**

- An enclosure requires needs to be installed on a level surface.
- If base cabinets are included with the enclosure installation make sure the floor is clean and level.
- All service lines for the enclosure installation, such as water, air, gas, etc. should be purged of dirt, capped and tested prior to connection to the enclosure.

### **ENCLOSURE OPERATION**

- Proper use and maintenance will increase enclosure life.
- Enclosures should not be used as laboratory storage space. Piles of unnecessary material, or unused bottles and flasks in a enclosure can block exhaust openings and interfere with enclosure performance.
- An air flow monitor should be incorporated on enclosure to monitor velocities and warn operator of potentially dangerous low air flows through the enclosure due to damper or blower failure, blockage of ductwork system or extreme sash opening height.
- Blowers should be checked to make certain the direction of rotation is correct. Centrifugal blowers will function while rotating in wrong direction, but output will be greatly reduced.

### **CLEAN UP**

Upon completion of the installation of your enclosure it is a good idea to clean thoroughly to eliminate any miscellaneous debris and/or surface soil.

- For all composite surfaces use a general purpose non-abrasive household cleaner.
- For glass surfaces use a formula glass cleaner. (Windex).
- For the worksurface it is recommended that you use mild soap and water.
- For acrylic it is recommended that you use mild soap and water.
- For metal cabinet painted surfaces use a general purpose non-abrasive cleaner.

Any questions? Call HEMCO customer service at 1-816-796-2900.