**2.12 VACUUM PUMP STORAGE**

**CASEWORK DESIGN REQUIREMENTS**

*Flush construction*: Surfaces of doors, flush panel faces shall align with cabinet fronts without overlap of case ends or top rail. Horizontal and vertical case shell members (panels and top rails) shall meet in the same plane without overlap, cracks or crevices.

*Slim line styling:* Front width of end panels and top rail - 3/4".

*Self-supporting units*: Completely welded shell assembly without applied panels at ends, backs or top panel, so that cases can be used interchangeably or as a single, stand‑alone unit.

*Interior of case units*: Acoustically treated sides, back and top panel with sound deadening materials. Base cabinets, 30" and wider, with double swinging doors shall provide full access to complete interior without center vertical post.

### Vacuum Pump Cabinet Fabrication

1. Vacuum pump storage to provide a means to store and vent vacuum pumps and their emissions and heat loads.
2. Vacuum pump cabinet shall have hinged doors with integral toe space without a cabinet bottom. Vacuum pump cabinet shall have removable back panel(s) for utility access and visual inspection. Back panel shall incorporate an integral 2-½" vent hole for a separate vent assembly.
3. Vacuum pump cabinet shall incorporate acoustical insulation on the interior door panels, sides, back and underside of the top panel. Insulation shall be an open cell foam of clonal design.
4. Storage unit shall incorporate an integral electrical switch (120V, 20 amp) with pilot light to indicate the operational mode of the vacuum pump unit.
5. Storage unit shall have an electrical duplex outlet, located in the rear of the cabinet, for the vacuum pump plug end. Outlet to be accessible from the inside of the cabinet. Outlet shall be hard wired to the electrical switch.
6. Separate mobile platform shall be capable of supporting 300 lbs. Front two casters shall be locking/swivel models. Lipped construction shall safely contain accidental spills.  
     
   **Specifier’s Options**
7. Optional door louvers will be incorporated when the exhaust fan is specified.
8. Switch shall be supplied with an optional 20' long, ½" trade size flexible metal conduit.
9. Optional variac voltage transformer (mounted in flush panel) shall be factory installed in the flush front panel to provide a variable voltage source for instrumentation. Variac shall include a metal enclosure, cover plate, toggle switch, duplex electrical receptacle, fuse holder and pilot light. Electrical input 120VAC, 50/60 Hz – output 140VAC, 10 amp. Variac will be supplied with a 20' long, ½" trade size flexible metal conduit.
10. An optional 235 cfm exhaust fan will be supplied for greater heat loads. The exhaust fan assembly will be attached to exterior of the cabinet for maximum pump storage and airflow. The fan assembly shall incorporate a 4" diameter duct collar connection. Connection to the building HVAC exhaust by others.
11. Vacuum Pump Cabinet  
    Nominal Dimensions:  
    Width: 24", 30", 36", 48"  
    Depth: 25" with electrical junction box  
    29-5/8" with exhaust fan housing  
    Height: 35.166"
12. Mobile Pump Platform  
    Nominal Dimensions:  
    Width: 21", 27", 33", 45"  
    Depth: 17.863"  
    Height: 5.750"

END OF SECTION