

Installation Instructions – Dynamic Braking Resistors

POST GLOVER DYNAMIC BRAKING RESISTORS consist of through-rod mounted resistor tubes installed into mill-galvanized or ANSIS-6-1 gray powder coated enclosures. All resistor tubes are factory interconnected using stainless steel hardware.

Once you have unpacked the resistor and inspected it for signs of shipping damage, you may **INSTALL THE UNIT AS FOLLOWS:**

- Remove the screws that attach the ventilated cover to the unit. Most units have four screws; larger units have six or more screws. Units up to 28" wide may be wall mounted as shown in FIGURE 1, or roof mounted as shown in FIGURE 2.

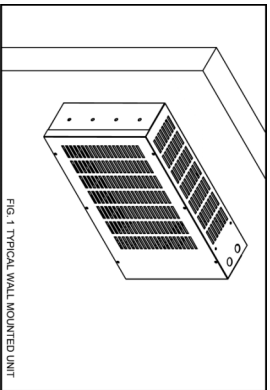


FIG. 1 TYPICAL WALL MOUNTED UNIT

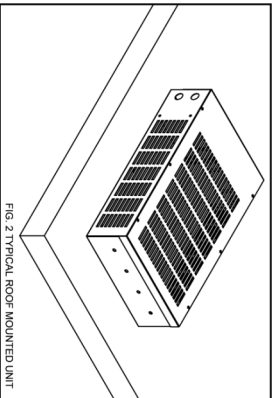


FIG. 2 TYPICAL ROOF MOUNTED UNIT

- Resistor tubes (and through-rods) must be horizontal for proper cooling. Fasten enclosure with four 3/8" bolts.

- All larger units (above approximately 5KW) are 29" wide and must be roof or floor mounted as shown in FIGURE 3. Fasten enclosure with four 1/2" bolts.

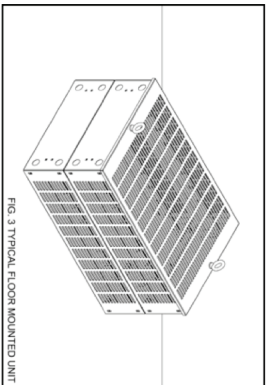


FIG. 3 TYPICAL FLOOR MOUNTED UNIT

CAUTION! THE HEAT FROM THE RESISTORS RISES STRAIGHT UP FROM THE RESISTOR TUBES.

- Installation should be performed by a qualified electrician per applicable industry/local codes including NEC/NFPA 70.
- There should be at least 24" of free space above the resistor and the area should be free of any combustible materials, fire sprinklers or other materials affected by heat.
- There should be at least 6" of space between the ends of the resistor enclosure and adjacent components.
- There should be at least 12" of space between the ventilated sides of the resistor enclosure and any nearby components.
- If there is concern about the resistor enclosure conducting heat to its mounting surface, then space the unit off its mounting surface approximately 1/4" using flat washers or an extra nut on each mounting bolt. See FIGURE 4.

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All enclosures feature several convenient conduit "knockouts" for easy wiring. Choose the appropriate location, remove the knockout and pull the wire into the resistor enclosure for connection to the resistor.

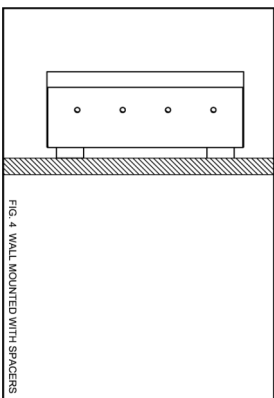


FIG. 4 WALL MOUNTED WITH SPACERS

If wiring directly to the resistor terminals, Post Glover recommends using at least 150°C rated Teflon or SRML (silicon rubber motor lead) wiring to prevent melting or burning of the insulation. Avoid running the wiring on top of, or too close to, the hot resistor tubes. It is much cooler underneath the resistors. Most units use #10 terminal hardware, but larger ratings use 1/4" and even 5/16" terminal hardware. The following table gives suggested wire size for copper conductors based on the insulating rating of the wire.

Suggested Wire Gauge		
150°C	75°C	
Up to 30 A	#14*	#10*
Up to 85 A	#6	#4
Up to 170 A	#2	#2/0

*This size terminal block uses ring terminals sized for #8 screw

Units featuring the Post Glover terminal block option may be wired to the terminal block using standard 75°C rated wire.

If an ohmmeter is available, check the value of the resistor and compare it to the rating shown on the nameplate to ensure you have the proper resistor. Connecting a resistor with too low of an ohm rating can damage the dynamic braking transistor (chopper) or the adjustable frequency drive.

If your unit features the Post Glover thermal switch option, connect your control leads to the two crimp-type terminals provided on the thermal switch. If you have an ohmmeter, check the continuity of the thermal switch to confirm that it is either normally closed or normally open as required. Both types are available.

TIGHTEN ALL CONNECTIONS SECURELY. LOOSE CONNECTIONS ARE A MAJOR SOURCE OF POWER RESISTOR FAILURES.

Install the ventilated cover and secure with the screws provided. **TIGHTEN SCREWS SECURELY!**

Your Post Glover Dynamic Braking Resistor should not require any maintenance, but should be checked periodically for loose connections and the accumulation of dust and dirt. Any excess dust or dirt that collects on the unit should be removed as it could prevent proper cooling or cause tracking to ground.

THE RESISTOR SHOULD NOT GLOW RED UNDER NORMAL OPERATING CONDITIONS!

If the unit glows or seems to run excessively hot, you probably need a higher wattage rated unit (which is available). Please contact Post Glover for further assistance.