



VENT PRODUCTS CO., INC.

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## EXHAUST AIR AUTOMATIC ENERGY DAMPERS

The Vent Products Energy Damper is an exhaust air automatic damper that opens and closes by operational light switch, motion detector, etc., that is located in the room being exhausted.

Unlike traditional constant volume exhaust systems, the quantity of air being exhausted from the building is dynamic, determined by the number of automatic Dampers that are open. The Energy Damper operates only when switched on. When it is not being used, there is no air being exhausted from it. A static pressure sensor located in the main exhaust duct controls the exhaust fan speed through a variable frequency drive to maintain a given duct pressure.

### ***Vent Products Energy Damper benefits include:***

- The quantity of conditioned air being exhausted from the building is reduced since the system is dynamic and the exhaust fan does not continuously run at full speed. The exhaust fan will vary the CFM to maintain the riser pressure, by means of the VFD, as the Vent Energy Dampers open and close.
- When using dampers, diversity in sizing the exhaust duct is allowed by various codes saving on material and labor, and reducing riser sizes, which increases the rentable to sellable square footage due to a smaller exhaust duct.
- Since the air is not being exhausted as a constant volume system at maximum design CFM, the required amount of make-up air supplied to the building can be reduced accordingly. This results in a savings of material, labor and most importantly – *energy!*

