

COMMERCIAL TRAINING TOOLBOX TIPS

Economizers Overview

Back to Basics

Helpful Resources

1. Lennoxcommercial.com or LennoxPros.com.

Economizers provide multiple benefits to commercial buildings:

1. **Free Cooling.** Increases efficiency of HVAC system.
2. **Dehumidification.** Introduces dry outside air to dehumidify warm humid air in the space.
3. **Ventilation.** Dilutes contaminants in the indoor air.
4. **Makeup air.** Replaces air lost to kitchen and bathroom exhaust fans.
5. **Building pressurization.** Maintains a slightly positive (or negative) pressure for the building.

Economizer control types:

1. **Dry Bulb.** Uses outdoor air sensible temperature to control operation.
2. **Single Enthalpy.** Uses outdoor air sensible temperature and humidity to control operation.
3. **Double Enthalpy.** Uses return air and outdoor air temperatures to control operation.

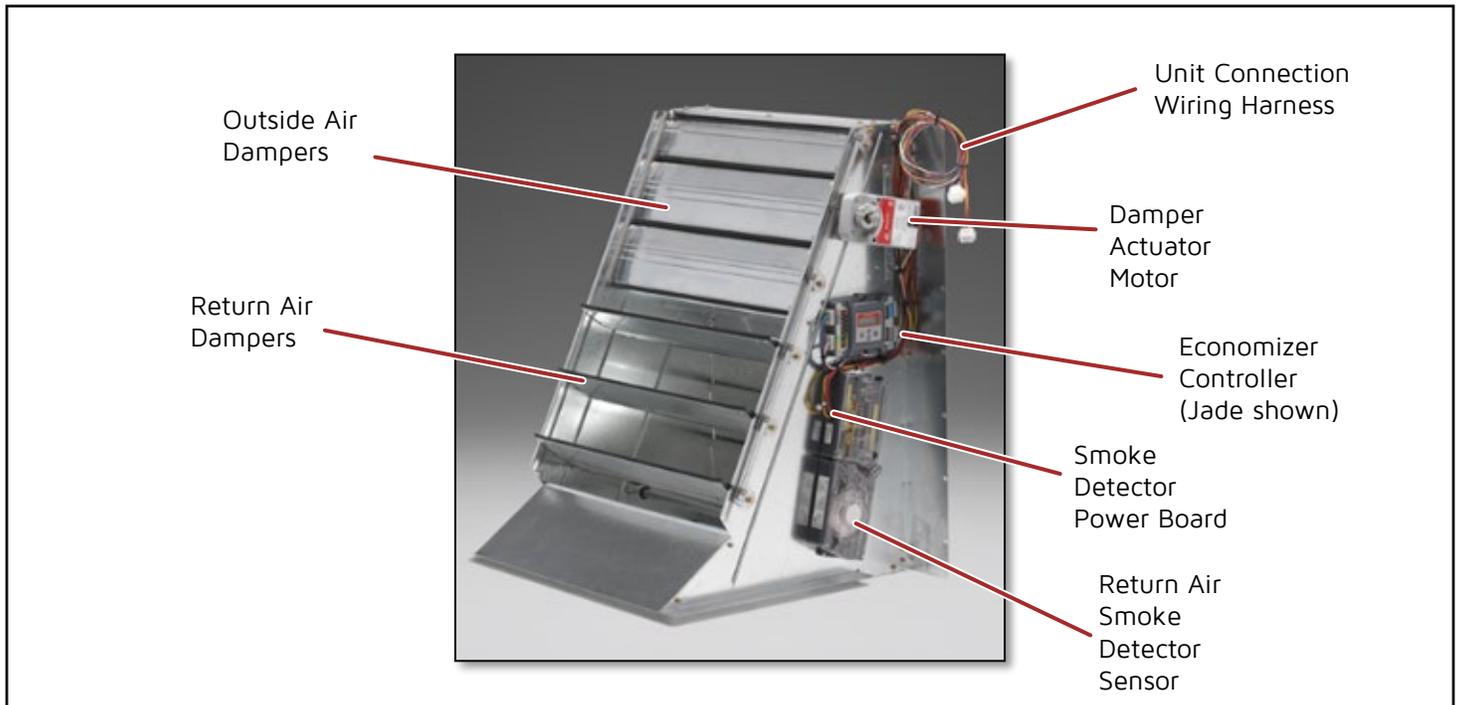


Figure 1. Economizer Components

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