

## COMMERCIAL TRAINING TOOLBOX TIPS

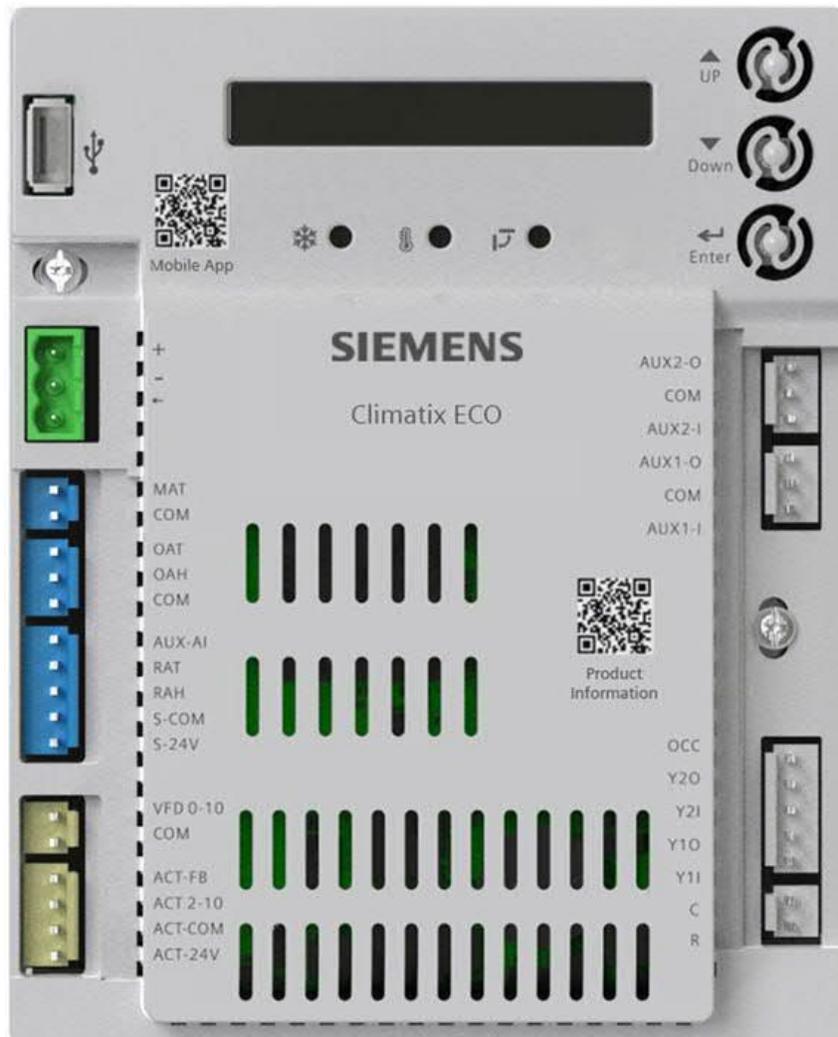
### Economizer Setup for KG/KC/KH and ZG/ZC/ZH Units with a Siemens Climatix ECO Economizer Controller

Applies to Lennox Landmark and Raider Rooftop Units that have a factory or field-installed economizer with a Siemen's Climatix ECO controller

#### Helpful Resources

1. Installation and service literature on [LennoxCommercial.com](http://LennoxCommercial.com) or [LennoxPros.com](http://LennoxPros.com)

An economizer uses a combination of sensible and enthalpy sensors to determine when outside air is suitable for free cooling. The type and number of sensors depends on the controller.



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### Siemens Climatix ECO Economizer Control Sensors

Type	Sensor	Cat #	Action
Enthalpy	Return Air	23G26	Measures return air enthalpy for dual enthalpy(differential enthalpy) functions. Compares with Outside Air enthalpy sensor for control.
Sensible	Return Air	59W63	Measures return air temperature for differential sensible control.
Enthalpy	Outside Air	23G26	Measures outside air enthalpy for dual enthalpy(differential enthalpy) functions.
			Compares with Outside Air enthalpy sensor for control.
			Enables free cooling operation when conditions are favorable.
Sensible	Outside Air	59W63	Measures outside air temperature for single and differential sensible control.
			Enables free cooling operation when conditions are favorable.
Sensible	Discharge Air	59W63	Measures discharge air after the cooling coil.
WLAN Stick	Wi-Fi dongle	23K58	Used to connect to mobile device app