

COMMERCIAL TRAINING TOOLBOX TIPS

Economizer Setup for KG/KC/KH and ZG/ZC/ZH Units with a Honeywell W7220 Economizer Controller

Applies to Lennox Landmark and Raider Rooftop Units that have a factory or field-installed economizer with a Honeywell W7220 controller

Helpful Resources

1. Installation and service literature on LennoxCommercial.com or 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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Honeywell Jade W7220 Economizer Controller Sensors

Type	Sensor	Cat #	Action	Image
Enthalpy	Return Air	11G21	Measures return air enthalpy for dual enthalpy(differential enthalpy) functions. Compares with Outside Air enthalpy sensor for control.	
Sensible	Return Air	11G26	Measures return air temperature for differential sensible control.	
Enthalpy	Outside Air	11G21	Measures outside air enthalpy for dual enthalpy(differential enthalpy) functions.	
			In single enthalpy applications, it compares the enthalpy to the ES Curve Setting to enable free cooling.	
			Enables free cooling operation when conditions are favorable.	
Sensible	Outside Air	11G26	Measures outside air temperature for single and differential sensible control.	
			Enables free cooling operation when conditions are favorable.	
Sensible	Discharge Air	11G26	Measures discharge air after the cooling coil.	