

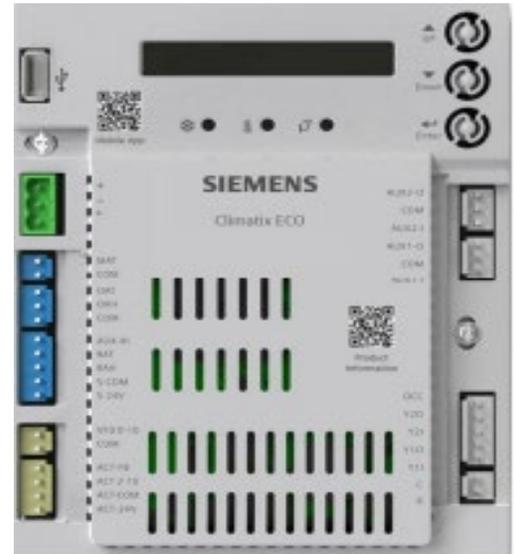
# COMMERCIAL TRAINING TOOLBOX TIPS

## Siemens Setup and Configuration Guide

Applies to Lennox Rooftop using a Siemens Climatrix ECO Economizer Controller

Follow the steps below to setup the siemens controller manually.

1. From the default HMI screen, press and hold Enter + Up. The **SCONFIG STATE** screen displays.
2. Press enter, and then confirm the switch by pressing enter again. Blocks can be changed by pressing and holding Enter + Up or Down. Parameters can be changed by pressing enter and using the arrows to adjust. Confirm the switch by pressing enter again.
3. Configure I/Os. See below for notable parameters.



Parameter	Configure As	Description
6OCC	Always/T-stat	Occupancy comes from controller or OC terminal
6OAT SIG	NTC10K	Configures signal type of OAT sensor
6OAH SIG	0-10V	Configures signal type of OAH sensor
6RAH SIG	0-10V	Configures signal type of RAH sensor
6MAT SIG	NTC10K	Configures signal type of MAT or LAT sensor

4. If configurations are done, press and hold Enter + Up or Down to switch to the **8RUN STATE** screen, then press Enter twice to go back to Running State. The **1FREECOOL** screen displays.

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5. Verify status parameters. See below for notable parameters.

Parameter	Description
1FREECOOL	Indicates if the system can use outdoor air for free cooling
1ECON ENAB	Indicates if outdoor air is being used for the 1st stage of cooling
1OCCUPIED	Indicates if the space is occupied- Controller needs to be in the occupied state
1Y1-IN	Y1-In call from thermostat for Cooling Stage 1
1Y1-OUT	Y1-Out signal to compressor for Cooling Stage 1

6. Configure basic settings. See below for notable parameters.

Parameter	Configure As	Description
2TEMP OFF	55°F (12.8°C)	Temperature shutoff setpoint
2ENTH OFF	22 Btu/lbm	Enthalpy shutoff setpoint
2FAN L ACT	2.8V	Minimum position at low speed
2FAN H ACT	3.6V	Minimum position at high speed

**Damper Position - 2V = 0% 6V = 50% 10V = 100%**

7. Configure advanced settings. See below for notable parameters.

Parameter	Configure As	Description
3FREEZE POS	CLO	Anti-freeze protection damper position
3MAT SET	53°F (11.7°C)	Setpoint of MAT or LAT sensor
3FRZ PROT	45°F (7.2°C)	Anti-freeze protection setpoint of MAT sensor
3OAT LOCK	32°F (0°C)	OAT lockout setpoint for anti-freeze protection

8. To enter test functions. See below for notable parameters.

From the default HMI screen, press and hold Enter + Up. The **5CONFIG STATE** screen displays. Press enter, and then confirm the switch by pressing enter again.

Parameter	Description
7DAMPER MIN POS	Drives damper to minimum position
7DAMPER CLOSE	Drives damper 100% closed
7DAMPER OPEN	Drives damper 100% open

If configurations are done, press and hold Enter + Up or Down to switch to the **8RUN STATE** screen, then press Enter twice to go back to Running State. The **1FREECOOL** screen displays.