

LENNOX BBOX HORIZONTAL ECONOMIZERS I/O/M manual

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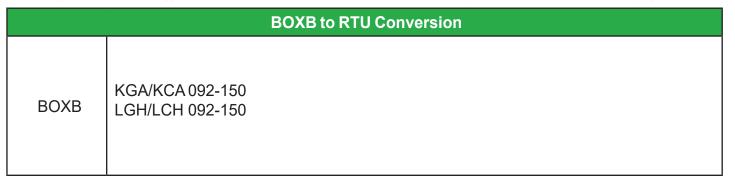
For information on iAIRE's Economizer Controls Package, please refer to IOM-0014

Lennox Economizer Description

PLEASE NOTE: Our economizer is a low leak, field installed economizer with the iAIRE patented controls packages and actuator, allowing you to reduce the amount of outside air needed from your rooftop HVAC system by up to 2/3 and will improve indoor air quality.

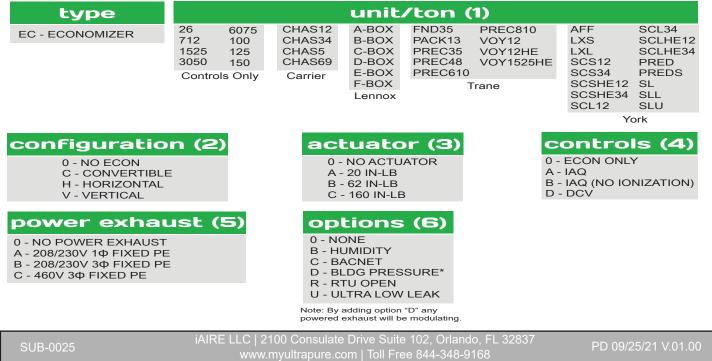
This reduction in system operation creates on-going utility savings. Payback on capital equipment costs with an iAIRE economizer can be realized in fewer than three years. These packages are designed to work directly on existing rooftop HVAC systems.

These economizers are all low leak and meet the IECC 2015 requirement and are Title 24 compliant by meeting section 120.2(i) for the required controls and the efficiency requirements in 140.4(e).



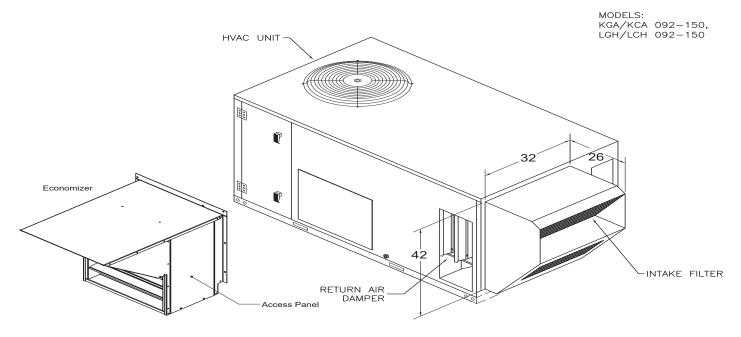
Part Number





iAIRE Lennox Economizers I/O/M

BBOX Horizontal Submittal



PART #WeightPARTAMPSPARTAMPSTOTALEC-BOXB-HBA0-*150 lbs.ACTUATOR.29ACONTROLS.44A.73A			Electrical Data					
EC-BOXB-HBA0-* 150 lbs. ACTUATOR .29A CONTROLS .44A .73A	PART #	Weight	PART	AMPS	PART	AMPS	TOTAL	
	EC-BOXB-HBA0-*	150 lbs.	ACTUATOR	.29A	CONTROLS	.44A	.73A	

*OPTIONS
0 - No Options
B - Humidity/Enthalpic
C - BACNet

Features

· iAIRE Patented Controls Scheme Included

- · Low Leak Damper Included
- · VOC, CO2 and Ionization included
- · Heavy Gauge Galvanized Steel Construction
- · American Sterling Grey Paint Finish
- · One Piece Assembly
- · Gear Driven Dampers
- · Uses HVAC Unit Filter Access Door
- · Capable of Relieving up to 100% of the Outside Air Intake

Economizers with Indoor Air Quality control are Title 24 compliant by meeting section 120.2(i) for the required controls and the efficiency requirements in 140.4(e). They also meet California ozone emissions requirements to be CARB certified.

SUB-0025-BOXBH

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iAIRE, LLC

iAIRE Lennox Economizers I/O/M

BBOX - Horizontal Install

Install Economizer - Horizontal

A field-fabricated return air duct transition and duct inlet must be installed in horizontal applications. K1HECK, horizontal discharge kit, must be ordered separately.

- 1- Remove unit end panel. See figure 30.
- 2- Install the downflow return air cover in horizontal airflow applications. See instructions provided with K1HECK and figure 30.
- 3- Make sure the horizontal return air cover on the back side of the unit remains in place. The opening is used when an economizer is not installed. See figure 31.

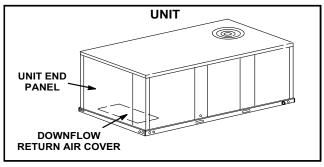
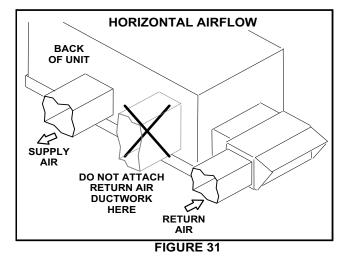
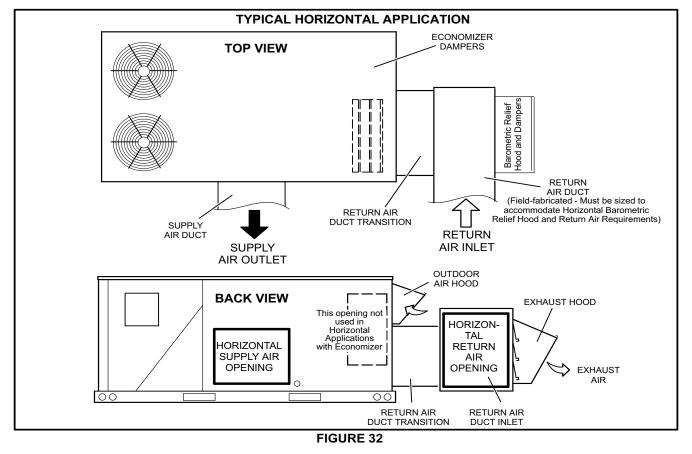


FIGURE 30



- 4- Install the economizer and R1 mixed air sensor and connect wiring as shown in appropriately named sections of this manual.
- 5- Install the field-fabricated return air duct transition and duct inlet on the unit end. See figure 32. Support the transition and duct inlet as needed.
- 6- Install the upper hood on the unit as shown in appropriate section of this manual.



Lennox Economizer Install Notes

Additional Notes

- 1. Power Supply. Provide disconnect means and overload protection as required.
- 2. Motor Spring-Returns closed when unit is not running.
- 3. Ensure that equipment transformer is sized to handle the extra load of the economizer and actuator.
- 4. When using a heat with defrost feedback, add an isolation relay between O and C. (Field provided and installed).