

YORK SLU CONVERTIBLE ECONOMIZERS I/O/M MANUAL

PD 11/04/2021 - v 1.00 PN IOM-0041-SLUC

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

York 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.

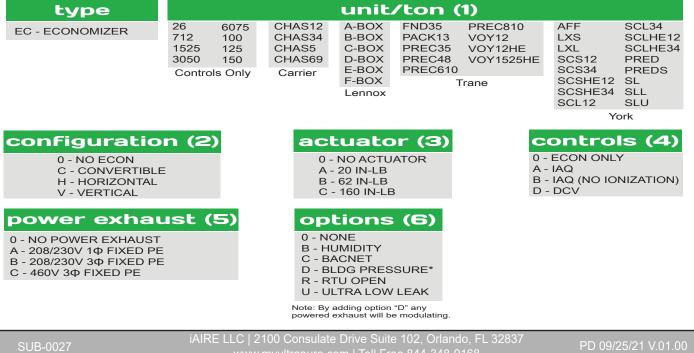
This reduction in system operation creates on-going utility savings. Payback on capital equipment costs with an iAIRE economizer can be realized in fewer than three years. These packages are designed to work directly on existing rooftop HVAC systems.

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).

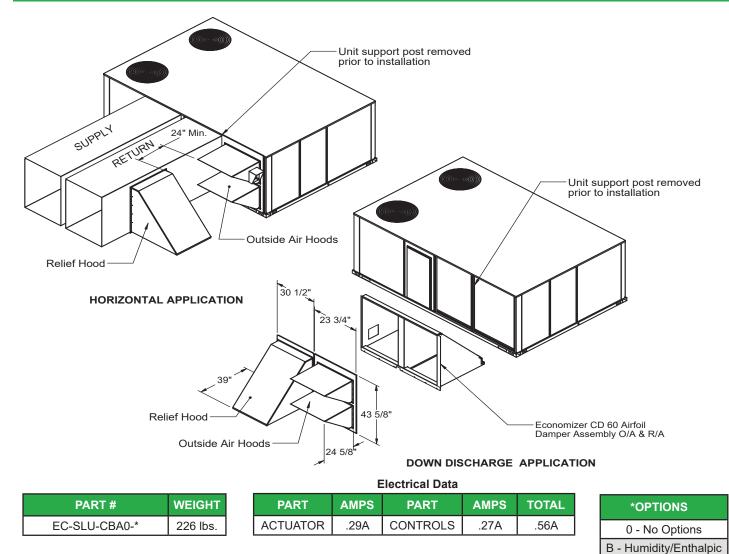
Unit to RTU Conversion		
SL-C	ZE, ZR, XN, XP 036-060, ZF 036-072	
SLL-C	ZJ, ZR 180-300; XP 180-240; ZF 210-300	
SLU-C	ZF 180	

Part Number

3 Δ EC 2 5 6



SLU Convertible Submittal



Features

· iAIRE Patented Controls Scheme Included

- · Convertible for horizontal and vertical applications
- · 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.

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SUB-0027-SLUC

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iAIRE York Economizers I/O/M

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SLU 15 to 25 Ton Unit - Convertible Install

PARTS INCLUDED

Male Wire Connectors

Before Starting Installation

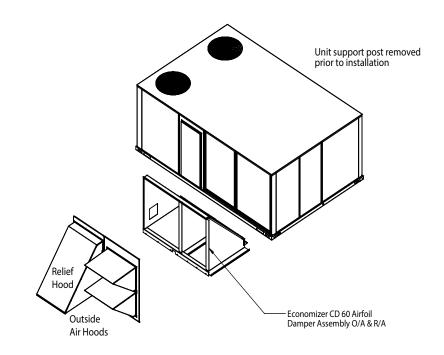


Only qualified HVAC service personnel should install, troubleshoot, repair or service HVAC and related HVAC equipment.

Installation Instructions

- 1. Turn power off to unit being serviced or worked on.
- 2. Remove horizontal duct panels and filter access panel, saving unit screws for securing economizer hoods. Also, remove filters from unit. This will make economizer easier to install. Filters will be put back at conclusion of economizer installation.
- 3. Remove the center support post as shown in the drawing ILL.
- 4. Slide economizer into unit as shown making sure to lift the front bottom flange into place. Position should be flush with panel. Prepunched holes will align with the two screw holes removed from previous step. Use these screws to secure economizer.

ILL.1

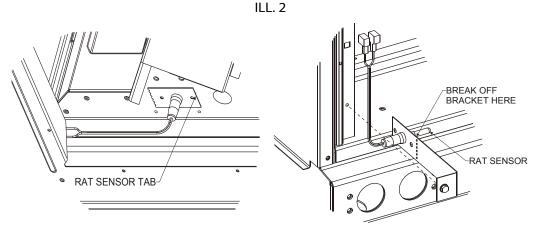


QTY.

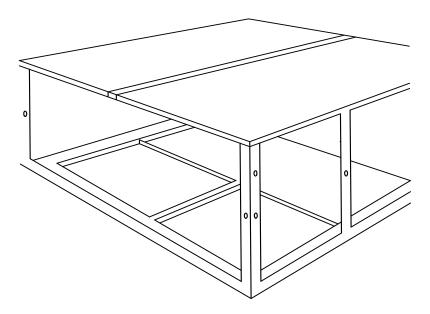
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SLU 15 to 25 Ton Unit - Convertible Install (cont'd)

- 5. Remove RAT sensor and bracket. ILL. 2 (if required)
- 6. Break off RAT sensor from part of bracket. ILL. 2 (if required)
- 7. Secure RAT sensor with screws provided with the economizer on the R/A compartment of the economizer as shown below. (if required)
- 8. Locate the harness in the return compartment with brown wire 845 and red wire 846. Connect this harness into the "24V-IN" connections on the economizer controller. Locate the harness in the return compartment with the black wire 840, white wire 841, and the red wire 842. Connect this harness to the "SA BUS" connections on the economizer controller. Refer to the unit wiring diagram.
- 9. With screws from the duct panel removed previously, install hoods provided with the economizer. The outside air hood with metal filter is mounted on the right side.
- 10. For horizontal return duct designed systems, relief hood needs to be positioned on return duct.
- 11. For wiring information refer to page 8 in IOM-0014.



ILL. 3



York 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).