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# CARRIER CHAS34 VERTICAL ECONOMIZERS I/O/M MANUAL

PD 11/04/2021 - v 1.00 PN IOM-0038-CHAS34V

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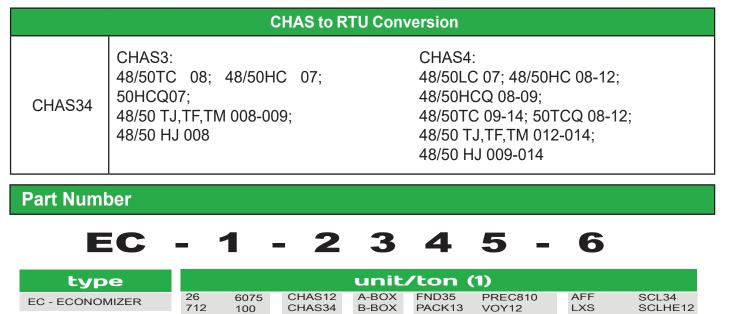
# For information on iAIRE's Economizer Controls Package, please refer to IOM-0014

### **Carrier 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).



C-BOX

PREC35

PREC/18

VOY12HE

LXL

SCS12

	Controls Only	Carrier	E-BOX F-BOX Lennox	PREC610	Trane	SCS34 SCSHE12 SCSHE34 SCL12	
<b>configuratio</b> 0 - NO ECON C - CONVERTIBLE H - HORIZONTAL V - VERTICAL		0 - A - B -	• NO ACTU • 20 IN-LB • 62 IN-LB • 160 IN-LE	ATOR	C A E	CONTRO D - ECON ONL A - IAQ B - IAQ (NO IC D - DCV	Y
<b>power exhau</b> 0 - NO POWER EXHAUST A - 208/230V 1¢ FIXED PE B - 208/230V 3¢ FIXED PE C - 460V 3¢ FIXED PE		0 - N( B - HI C - B/ D - BI R - R U - UI	UMIDITY ACNET LDG PRES TU OPEN LTRA LOW adding option	SURE* LEAK "D" any			
SUB-0024	iAIRE LLC   21 www.r			e 102, Orlan		PD 09/;	25/21 V.01.00

1525

3050

125

150

CHAS5

CHASEQ

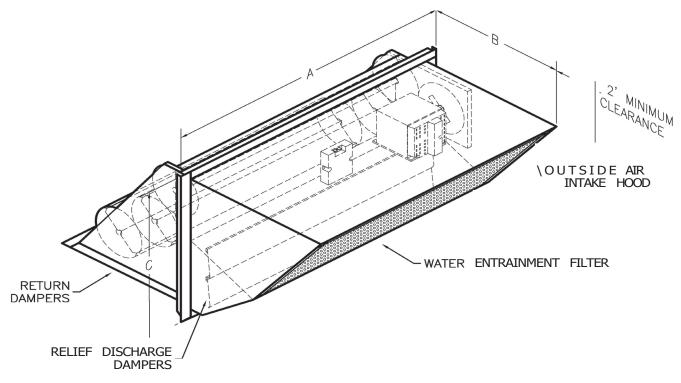
iAIRE, LLC

SCLHE34

DDED

## **Chassis 3 & Chassis 4 Vertical Submittal**

#### **100% BAROMETRIC RELIEF DOWN DISCHARGE ECONOMIZER**



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

Dimensions

PART #	А	В	С	WEIGHT
EC-CHAS34-VBA0-*	40.375"	17.5"	24"	75lbs

PART	AMPS	PART	AMPS	TOTAL
ACTUATOR	.29A	CONTROLS	.44A	.73A

#### 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-0024-CHAS34V	iAIRE, LLC   2100 Consulate Drive, Suite 102, Orlando, FL 32837 www.myultrapure.com   Toll Free 844-348-9168	PD 09/15/2021 - v 1.00
iAIRE, LLC	iAIRE	Carrier Economizers I/O/M

EC-CHAS34-VBA0-\*

CFM	SP IN WG
4000	.52
3500	.42
3000	.30
2500	.22
2200	.18

# **Chassis 3 & Chassis 4 - Vertical Install**

- **1.** Remove return air compartment filter access panel and lower economizer panel of HVAC unit. Save the screws and the filter access panel, but discard the economizer panel.
- **2.** Slide the economizer up to the HVAC unit and tilt the top of the economizer toward the HVAC unit. Slide it into the compartment as shown below.
- **3.** At the back of the bottom return opening, under the filter rack on the HVAC unit, there are three tabs. The front flange of the economizer must slide under these tabs.
- **4.** Once the front flange is under the tabs, lower the economizer until it sits down into the slot on the back of the economizer and down onto the base rail of the HVAC unit.
- **5.** Be sure the side flanges of the power exhaust cabinet are sitting in the slots of the corner posts of the HVAC unit.
- **6.** Fasten the economizer to the HVAC unit through the holes provided. Use the screws that were removed from the economizer panel in step 1.
- **7.** At the filter access door opening, reach in and plug the economizer harness into the corresponding economizer harness in the HVAC unit.
- **8.** Refer to page 5 in IOM-0014 Economizer Controls Installation Manual for installation of the various sensors and actuators. Connect wires according to the wiring diagram on page 8.
- 9. Slide the filter access door back into the place above the economizer.

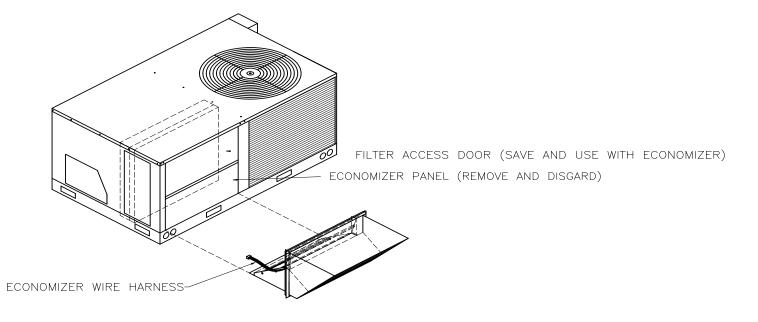
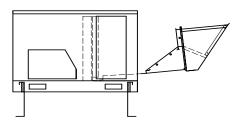
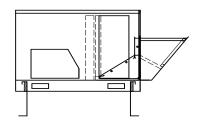


Fig.1





# **Carrier Economizer Install Notes**

#### **Additional Notes**

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