

## EC-\*\*\*\* - 0\* A0 -\* | Economizer Controller

### Package Description

The economizer replacement controls package is designed to clean your air and save on utility costs. Packages include ion air cleaners for 400 CFM/Ton nominal Roof Top Units (RTU) & standard loading, VOC sensor, CO2 sensor, 2 temperature probes and an ion mounting plate. If your current system has drastically different CFM/Ton, contact the factory for more information on adjustments that are needed. These economizer controllers are compatible with RTU Open and Carrier Comfort Network.



UL 867  
CSA C22.2



File# 101141865COL-003

**iAIRE** For information on energy and cost savings for your business, visit: [www.myultrapure.com](http://www.myultrapure.com)

### Part Number

# EC - 1 - 2 3 4 5 - 6

| type            | unit/ton (1)  |      |         |        |         |           |         |         |
|-----------------|---------------|------|---------|--------|---------|-----------|---------|---------|
| EC - ECONOMIZER | 26            | 6075 | CHAS12  | A-BOX  | FND35   | PREC810   | AFF     | SCL34   |
|                 | 712           | 100  | CHAS34  | B-BOX  | PACK13  | VOY12     | LXS     | SCLHE12 |
|                 | 1525          | 125  | CHAS5   | C-BOX  | PREC35  | VOY12HE   | LXL     | SCLHE34 |
|                 | 3050          | 150  | CHAS69  | D-BOX  | PREC48  | VOY1525HE | SCS12   | PRED    |
|                 | Controls Only |      | Carrier | E-BOX  | PREC610 |           | SCS34   | PRES    |
|                 |               |      |         | F-BOX  |         | Trane     | SCSHE12 | SL      |
|                 |               |      |         | Lennox |         |           | SCSHE34 | SLL     |
|                 |               |      |         |        |         |           | SCL12   | SLU     |

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### configuration (2)

0 - NO ECON  
C - CONVERTIBLE  
H - HORIZONTAL  
V - VERTICAL

### actuator (3)

0 - NO ACTUATOR  
A - 20 IN-LB  
B - 62 IN-LB  
C - 160 IN-LB

### controls (4)

0 - ECON ONLY  
A - IAQ  
B - IAQ (NO IONIZATION)  
D - DCV

### power exhaust (5)








0 - NO POWER EXHAUST  
A - 208/230V 1Φ FIXED PE  
B - 208/230V 3Φ FIXED PE  
C - 460V 3Φ FIXED PE

### options (6)





0 - NONE  
B - HUMIDITY  
C - BACNET  
D - BLDG PRESSURE\*  
R - RTU OPEN  
U - ULTRA LOW LEAK

Note: By adding option "D" any powered exhaust will be modulating.

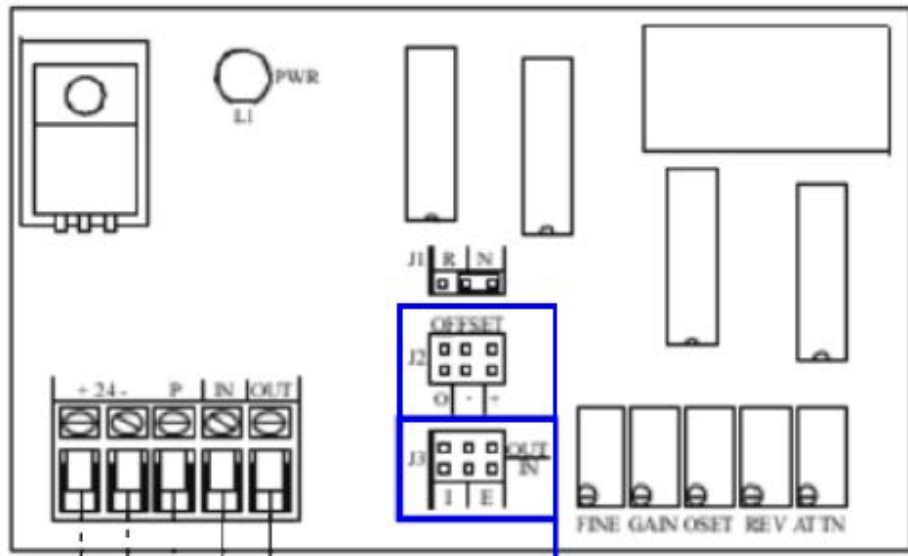
## Package Matrix

|                                                                                   | Part #                                               | Quantities |             |              |              |              |             |             |             |
|-----------------------------------------------------------------------------------|------------------------------------------------------|------------|-------------|--------------|--------------|--------------|-------------|-------------|-------------|
|                                                                                   |                                                      | EC-26-**-* | EC-712-**-* | EC-1525-**-* | EC-3050-**-* | EC-6075-**-* | EC-100-**-* | EC-125-**-* | EC-150-**-* |
|  | Ion Generator<br>mod. # ION-0A*00                    | 1          | 2           | 4            | 8            | 12           | 16          | 20          | 24          |
|  | Ion Generator<br>Mounting Kit<br>mod. # UNV-0016-Kit | 1          | 2           | 4            | 8            | 12           | 16          | 20          | 24          |
|  | VOC Sensor<br>mod. # SEN-0071                        | 1          | 1           | 1            | 1            | 1            | 1           | 1           | 1           |
|  | Transformer<br>mod. # TRN-0005 Kit                   | 0          | 0           | 1            | 1            | 2            | 2           | 2           | 2           |
|  | Economizer<br>Controller<br>mod. # CNT-0088          | 1          | 1           | 1            | 1            | 1            | 1           | 1           | 1           |
|  | CO2 Sensor<br>mod. # SEN-0002                        | 1          | 1           | 1            | 1            | 1            | 1           | 1           | 1           |
|  | Temperature<br>Probe<br>mod. # SEN-0012              | 2          | 2           | 2            | 2            | 2            | 2           | 2           | 2           |
| Electrical<br>Data                                                                | 24v                                                  | 0.27A      | 0.44A       | N/A          | N/A          | N/A          | N/A         | N/A         | N/A         |
|                                                                                   | 230v                                                 | N/A        | N/A         | 0.08A        | 0.15A        | 0.22A        | 0.29A       | 0.36A       | 0.43A       |
|                                                                                   | 460v                                                 | N/A        | N/A         | 0.04A        | 0.08A        | 0.11A        | 0.14A       | 0.18A       | 0.21A       |
| Total Weight                                                                      |                                                      | 1.07 lbs   | 1.72 lbs    | 5.52 lbs     | 8.12 lbs     | 10.72 lbs    | 15.82 lbs   | 18.42 lbs   | 21.02 lbs   |

## Package Add-Ons

|                                                                                     |                                                              |                                                                                                                                                                |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Humidity Sensor<br>mod. # SEN-0001                           | If you would like to add enthalpy sensing to your system, include a humidity sensor.                                                                           |
|  | Actuators<br>mod. # MTR-000*                                 | Allows for feedback to be given. Can replace current actuators without a feedback system.<br>MTR-0002 - 20 in-lbs; MTR-0003 - 60 in-lbs; MTR-0004 - 160 in-lbs |
|  | BACnet Translator<br>mod. # PRG-<br>BACNET-<br>ECON-5.** KIT | For reliable protocol translation, add our BACNet Translator to your system.                                                                                   |
|  | BP Sensor<br>mod. # SEN-0065                                 | Allows for low-pressure measurement for building energy management and comfort control.                                                                        |

RTU Open Wiring Diagram



24 VAC/DC  
Power Supply

Analog Input Signal  
From iAire Controller A01

