



## Title 24 Compliance Information

October 22, 2014

This serves as confirmation that Provent economizers are in full compliance with the requirements of CA T24 per the information below:

If an economizer is required by Section 140.4(e)1, and an air economizer is used to meet the requirement, then the air economizer, and all return air dampers on any individual cooling fan system that has a total mechanical cooling capacity over 45,000 Btu/hr shall have the following features:

It shall have high limit shutoff controls complying with TABLE 140.4-B.

A. Warranty. 5-year Manufacturer warranty of economizer assembly (parts and components only).

B. Damper reliability testing. Suppliers of economizers shall certify that the economizer assembly, including but not limited to outdoor air damper, return air damper, drive linkage, and actuator, have been tested and are able to open and close against the rated airflow and pressure of the system after 60,000 damper opening and closing cycles.

C. Damper leakage. Economizer and return dampers are individually tested in accordance with AMCA 511 guidelines under Section 14 "Volume Control Damper", to have a maximum leakage rate of 10 cfm/sf at 1.0 in. w.g.

D1. Adjustable set point. If the high-limit control is fixed dry-bulb or fixed enthalpy + fixed dry-bulb then the control shall have an adjustable set point.

E1. Sensor accuracy. Outdoor air, return air, mixed air, and supply air sensors are calibrated within the following accuracies.

i. Dry bulb and wet bulb temperatures accurate to  $\pm 2^{\circ}\text{F}$  over the range of  $40^{\circ}\text{F}$  to  $80^{\circ}\text{F}$ .

ii. Enthalpy accurate to  $\pm 3$  Btu/lb over the range of 20 Btu/lb to 36 Btu/lb.

iii. Relative humidity (RH) accurate to  $\pm 5$  percent over the range of 20 percent to 80 percent RH.

F1. Sensor calibration data. Data used for control of the economizer is plotted on a sensor performance curve.

G1. Sensor high limit control. Sensors used for the high limit control shall be located to prevent false readings, including but not limited to being properly shielded from direct sunlight.

H. Relief air system. Relief air systems shall be capable of providing 100 percent outside air without over pressurizing the building.

Regards,

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Provent GM

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