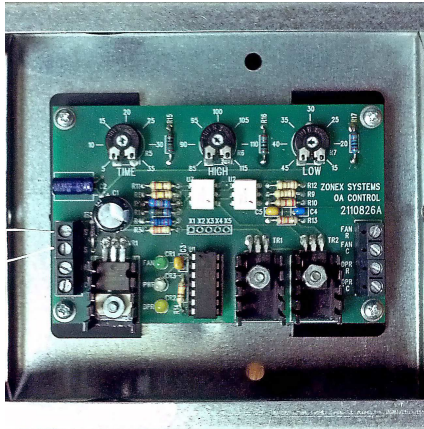


Intelligent Fresh Air Controller

SUBMITTAL



Intelligent Fresh Air Controller

DESCRIPTION

Zonex Systems Intelligent Fresh Air Controller is a microprocessor based controller designed to provide required fresh air based on time, outside air temperature and air requirements for 24 hour operations, based on Ashrae 62.2 Ventilation and Indoor Air Quality Standards.

Intelligent Fresh Air Controller allows the installer to configure time from 5 to 40 minutes of operation at the time potentiometer. This setting represents the amount of time fan and damper outputs will be energized each hour.

In addition to providing fan operation time per hour, the Intelligent Fresh Air Controller also monitors outside air temperatures (OSA) and will lockout operations when outside air temperatures are too high or low for system efficiency. Lockout High and Low limits are adjustable on controller potentiometers. High limit can be adjusted from 85° to 115° and Low limit can be adjusted from 15° to 45°. When OSA lockout occurs, the controller will store lockout minutes and use these minutes when OSA returns to normal temperature.

To meet Ashrae 62.2 and Energy Star Indoor Air Quality Standards, the Intelligent Fresh Air Controller monitors and stores minutes of run time locked out due to OSA conditions. Logic in the controller uses stored minutes and controller time setting to calculate needed run time to meet standard within the remaining 24 hour time period. Once time requirement is determined by the controller, based on time setting and stored minutes, the controller will energize fan and damper outputs for remainder of 24 hour period to meet fresh air requirement.

TECHNICAL DATA

Electrical:

Supply Voltage: 24vac
Power consumption: 12 VA
Input: 24vac

Environmental:

Operating temperature: 10 to 150° F

General:

Frame: 22 gauge galvanized steel
Time Potentiometer: 5 to 40 minutes
High Potentiometer: 85 to 115°
Low Potentiometer: 15 to 45°
Fan RC Output: 24 volt power to energize fan relay
DPR RC Output: 24 volt power to energize power open spring closed Fresh Air Damper.

Part # TRFAD (Size)

