

ENTHALPY-SENSING MAKEUP AIR SENSOR

Model: E-Sensor



The Field Controls E-Sensor Enthalpy Damper Control is intended for use in conjunction with the HHSC+ Ventilation Control and FAD-model Fresh Air Dampers, for the purpose of preventing outdoor air from being brought into the home when outdoor weather conditions are extreme and undesirable for ventilation.

The E-Sensor and HHSC+ also have the capability of providing make-up air to the home on demand, when sensed by a variety of sensors, switches, and other equipment. The make-up air function may or may not override the E-Sensor ventilation – inhibiting function, depending on the wiring configuration chosen by the installer.

The E-Sensor mounts to the fresh air ventilation duct, between the FAD damper and the air intake hood or termination. Outdoor air conditions are sensed by an integral probe that penetrates into the duct. Ventilation may be prohibited when any of three adjustable outdoor air parameter set-points is exceeded:

- Outdoor air is too cold (Lo-Temp setting)
- Outdoor air is too hot (Hi-Temp setting)
- Outdoor dew point is too high (Dew Point setting)

The E-Sensor is powered with 24VAC by connection to the HHSC+ control, which is powered by connection to the HVAC 24V thermostat or system transformer. No secondary power transformer is normally required.

ITEMS INCLUDED IN KIT:

- E-Sensor Control Unit
- Damper Cable with modular connectors, for connection to FAD damper
- Control Harness for connection to HHSC+ ventilation control, with modular connector
- Makeup Air Harness with modular connector
- Duct Gasket
- (2) Zip Ties for mounting E-Sensor to fresh air duct
- Installation and Operation Instructions

Additional Hardware Required: None.

INSTALLER-SUPPLIED ITEMS:

- 24V wiring (min. 22 AWG, max. 50', min. 18 AWG, max 150')
- Wiring connectors

READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE PROCEEDING WITH THE INSTALLATION.

This device **MUST** be installed by a qualified agency in accordance with the manufacturer's installation instructions. The definition of a qualified agency is: any individual, firm, corporation or company which either in person or through a representative is engaged in, and is responsible for, the installation and operation of HVAC appliances, who is experienced in such work, familiar with all the precautions required, and has complied with all the requirements of the authority having jurisdiction.

Please retain these instructions after installation.

Installed By: _____ Phone: _____ Installation Date: _____



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