FHC

FUME HOOD CONTROLLER

ANTEC controls by price

FHC
Fume Hood Controller

The Fume Hood Controller (FHC) is an exceptionally versatile controller for monitoring and controlling fume hood face velocity. Designed specifically to meet the needs of all fume hood types, the FHC provides assurance that required fume hood face velocity is satisfied and the work environment is safe.

The FHC allows for various fume hood control configurations including sash position sensing, sidewall face velocity sensing or hybrid sensing. When the FHC is utilizing a venturi valve to control the fume hood exhaust airflow, the controller measures pressure drop across the valve allowing for duct-system pressure alarms and simplified balancing. Once installed and commissioned, the FHC is maintenance-free allowing for reliable fume hood control and monitoring.

TYPICAL APPLICATIONS

The FHC provides precise monitoring and control of face velocity on fume hoods. Utilizing sash position sensing, sidewall face velocity sensing or hybrid sensing, the FHC ensures user safety by continuously monitoring face velocity and controlling the exhaust airflow to maintain the required fume hood face velocity.

FEATURES

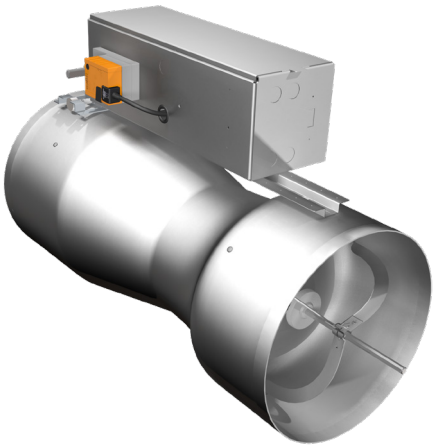
+ Sash position sensing, sidewall face velocity sensing or hybrid control configurations
+ Less than 1 second speed of response as defined by ANSI Z9.5
+ Fume hood interface designed with audible and visual alarms
+ Intuitive startup and balancing software
+ Valve pressure measurement for simplified startup and pressure monitoring
+ Presence sensor available for face velocity setback
+ BACnet MS/TP

STANDARDS & CERTIFICATIONS

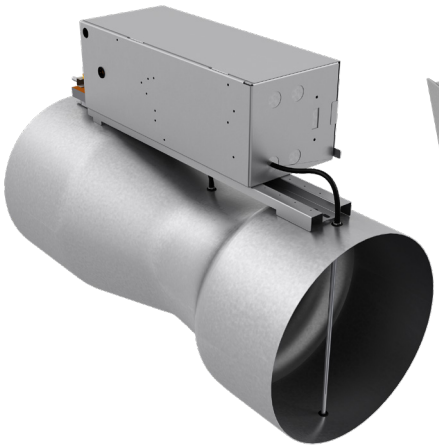
+ ASHRAE 110 – Method of Testing Performance of Laboratory Fume Hoods
+ ANSI Z9.5 – American National Standard for Laboratory Ventilation
+ BTL Listed - BACnet Testing Laboratories

VERSATILE AIRFLOW CONTROL

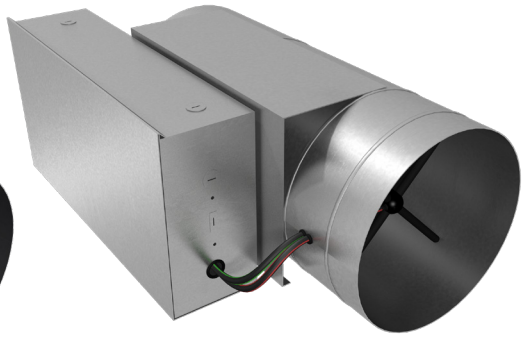
The FHC meets the control requirements of various airflow devices including the Venturi Valve, Venturi FX or a Terminal Unit. In addition, the Fume Hood Network allows for any combination of these airflow devices to meet the room requirements.



Venturi Valve



Venturi FX



Terminal Unit

SPECIFICATIONS

Input Power	24 VAC +/- 10%, 50/60 Hz, 40 VA (External loads not included), Class 2
Environmental (operating)	50°F to 122°F (10°C to 50°C), 5% to 95% R.H. (non-condensing)
Environmental (storage)	-22°F to 122°F (-30°C to 50°C), 0% to 95% R.H. (non-condensing)
Inputs	2 binary inputs, 2 sidewall sensor inputs, 3 sash position sensor inputs, Fume Hood Network
Outputs	2 Analog outputs (0-10 VDC, max: 10 mA), 3 dry binary output (max: 24 VAC/VDC, 100 mA)
Pressure Sensor	Venturi Valve: 0 in.w.c to 5.0 in.w.c (0 pa to 1250 pa) Venturi FX or Terminal Unit: 0 in.w.c. to 2.0 in.w.c. (0 pa to 500 pa)
Indicators	Status LEDs
Communication Protocol	BACnet MS/TP

Specifications subject to change without notice

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