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## Product Information Sheet FB-VAV Series Floor Terminals

PI/1/8/US/2

TROX FB-VAV series floor terminals are designed for use in raised access floor applications. These assemblies incorporate a motorized air volume control damper that is modulated to provide variable air volume delivery to the space they serve. Reset of the delivered airflow quantity is accomplished by a space thermostat or other input signal.

FB-VAV terminals are available in a single size (nominal 8 inch diameter) and can be furnished in a variety of materials and finishes.

The use of FB-VAV diffusers affords accurate temperature control for finished floor heights as low as 8 inches.

### DESIGN

FB-VAV terminals consist of a floor diffuser core, a carpet trim ring, a debris retention basin, and an automatically controlled airflow regulator. The retention basin has a catch capacity of 12 fluid ounces. The basin can be removed for cleaning without disturbance of the control section. The airflow control section is designed to allow easy retrofit of existing FB series diffusers. The control assembly and diffuser core can be relocated into another carpet flange without disturbance of the floor tiles or covering.

### OPERATION

FB VAV terminals utilize the TROX FB series swirl diffuser core. Its high induction performance assures optimal occupant comfort as well as energy efficiency by rapidly mixing the supply air with room air near the diffuser face. FB-VAV terminals incorporate a 24VAC electric actuator which reconfigures its inlet area in response to the imposed control signal (by others). An adjustable maximum airflow limit assures that outlet airflow rates will remain between the minimum space ventilation requirement and the prescribed design outlet airflow, assuring a proper system airflow balance.

### APPLICATION

FB-VAV terminals are ideal for floor plenum supply applications. This includes perimeter areas, conference rooms and any other area that experiences frequent or widely varying load shifts. These diffusers can also be used to provide ultimate individual control in open office areas or space retrofits which can only accommodate a minimal raised floor height.

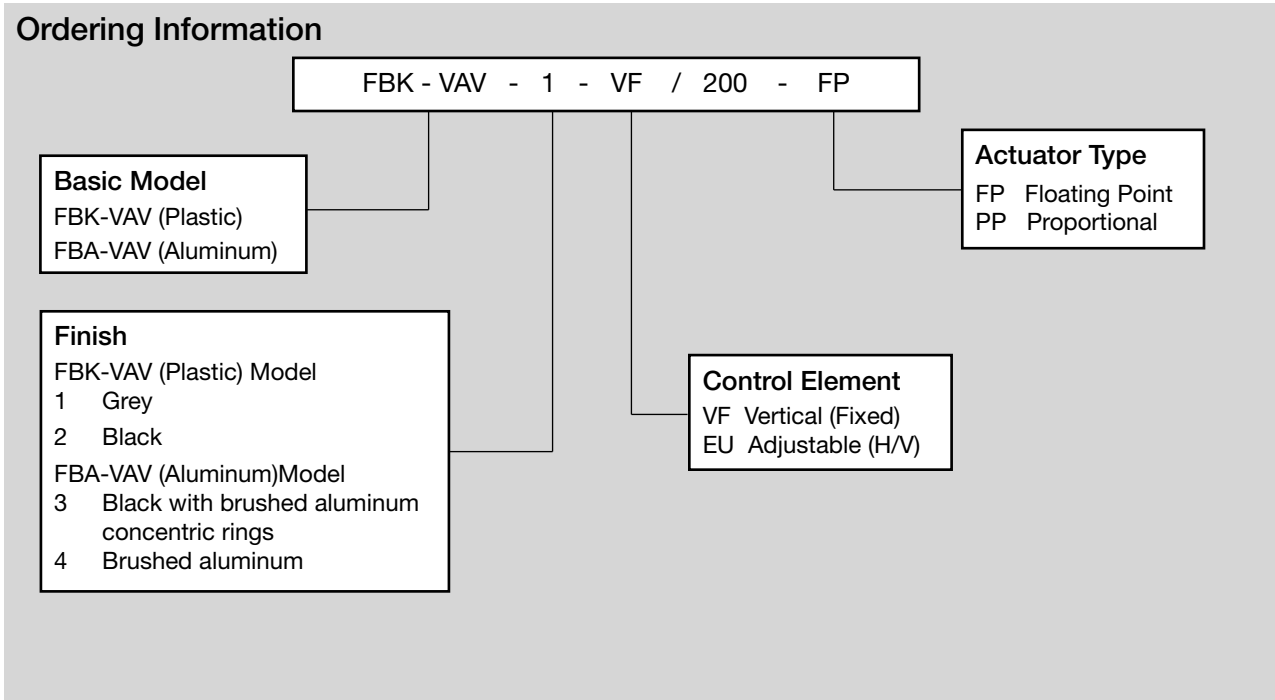


### FEATURES AND ADVANTAGES

- Plastic and aluminum models are available in a variety of surface finishes
- Enables automatic VAV control of individual outlet airflow delivery
- Adjustable maximum and preset minimum air flow limits assure code required ventilation while maintaining air system balance
- Cleaning and maintenance can be accomplished without disturbance of the access floor tile or floor covering
- Modular connections facilitate easy field relocation of air terminal
- Affords accurate temperature control for retrofit applications requiring minimal finished floor heights
- Air control components can easily be added or relocated to other installed manually adjusted FB series diffusers

# Ordering

## Ordering Information



## OTHER UNDERFLOOR PRODUCTS FROM TROX USA

### FBA & FBM/200 series diffusers

- Constructed of heavy duty aluminum
- Nominal 8" diameter diffuser, delivers up to 100 CFM in plenum applications, 150 CFM when ducted or supplied by a fan terminal.
- Easy (manual) adjustment of outlet airflow rate by occupant
- See publication PI/1/8.1/US/4 for further information.

### FBA & FBK/150 series diffusers

- Available in heavy duty aluminum or plastic construction
- Nominal 6" diameter diffuser, delivers up to 50 CFM in plenum applications, 75 CFM when ducted or supplied by a fan terminal.
- Manual adjustment of outlet airflow rate by occupant.
- See publication 1/9/US/4 for further information.

### Fan terminals for UFAD systems

- Seven different models for almost any UFAD application.
- Four sizes provide capacities up to 1800 CFM each.
- All models and sizes are specifically designed to fit within the structure of a low height raised access flooring system.
- See publication TB111203 for further information on these terminals.

TROX FB series floor diffusers can also be used in under seat applications such as those found in theatres and performing arts facilities. Contact TROX USA for information regarding these applications.