

# VAV Electronic Diffuser

**Available in 6" to 14" neck sizes for nominal 24"x24" face sizes**

**Available in 6" and 8" neck sizes for nominal 12"x12" face sizes**

## OPERATION:

Diffusers incorporate an internal modulating disk that continually regulates the volume of supply air in response to a wall-mounted thermostat. The VAV diffuser is designed to maintain coanda effect (draft free) of discharge air along the ceiling, providing a sustained velocity throughout the volume range. Operating the diffuser from an individual wall-mounted thermostat enables users to choose their own desired comfort control from desk top level, rather than a stratified ceiling level.

## FEATURES:

### Wall-mounted thermostatic control

Temperature is controlled within an individual zone from a wall-mounted thermostat.

### Powerful, low voltage actuator

Floating-point actuators are standard.

### True variable air volume in heating and cooling modes

The diffuser effectively regulates the amount of supply air into the space and uses a wall-mounted thermostat to achieve true VAV control in heating and cooling modes. Automatic changeover from heating to cooling is standard.

**If a single zone system or multiple zone systems are used to zone more than 30% of the total CFM served by the HVAC system, a bypass damper may be required to maintain constant system static pressure.**

### Maximum air volume range is from 118 to 710 CFM

- Adjust minimum and maximum air flows.
- 1-40 VA transformer will power a single zone system=1 master 1 thermostat and up to 19 slave/drone actuator/diffusers.
- 1-75 VA transformer will power a single zone system=1 master 1 thermostat and up to 36 slave/drone actuator/diffusers.
- 18-8 GA wire should be used

