

# D-FUSER

## A COMBINATION DAMPER AND DIFFUSER



- ✓ Autochangeover operation
- ✓ Delivers air at constant velocity
- ✓ Reduce VAV system costs by 25% or more
- ✓ Individual heat & cool set points
- ✓ Maintains temperature +/- 1 degree set point
- ✓ Eliminates air dumping
- ✓ Installs in a 2' x 2' ceiling grid
- ✓ Substitute D-Fusers for VAV boxes
- ✓ Upgrade systems without replacing ductwork
- ✓ Easy installation
- ✓ Simple operation
- ✓ Replace old pneumatic or electronic VAV jobs

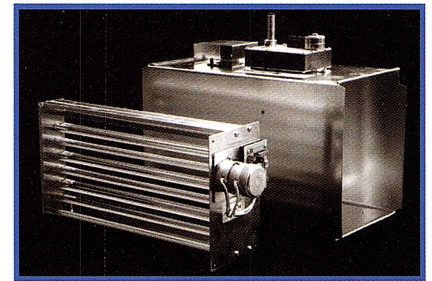
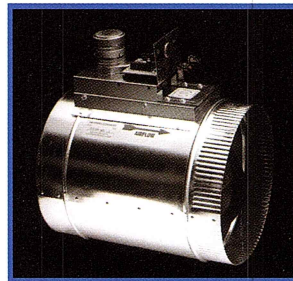
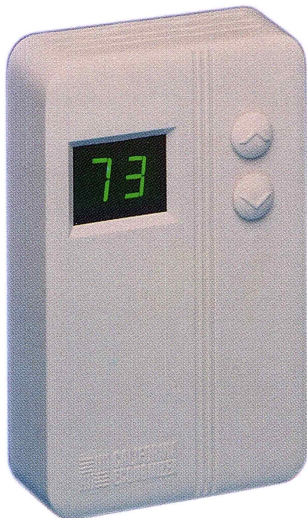
The D-Fuser provides fully modulating auto changeover operation which controls both heating and cooling in each VAV zone.

**“Use the D-Fuser in a Bypass VAV System or for Stand Alone control”**

This combination damper/diffuser incorporates a fluidic nozzle which provides each zone with exceptional temperature control and maximum comfort.

The D-Fuser utilizes fluidic principles to maximize the Coanda effect. As room load varies, the D-Fuser modulates to control the flow of supply air, maintaining the smoothest possible flow of air, coupled with the greatest ceiling attachment.

## Round and Rectangular Dampers



## SAMOD Stand Alone Modulating Damper Control



Displays Room Temperature



Displays Damper Position in % Open



Displays Supply Duct Air Temperature

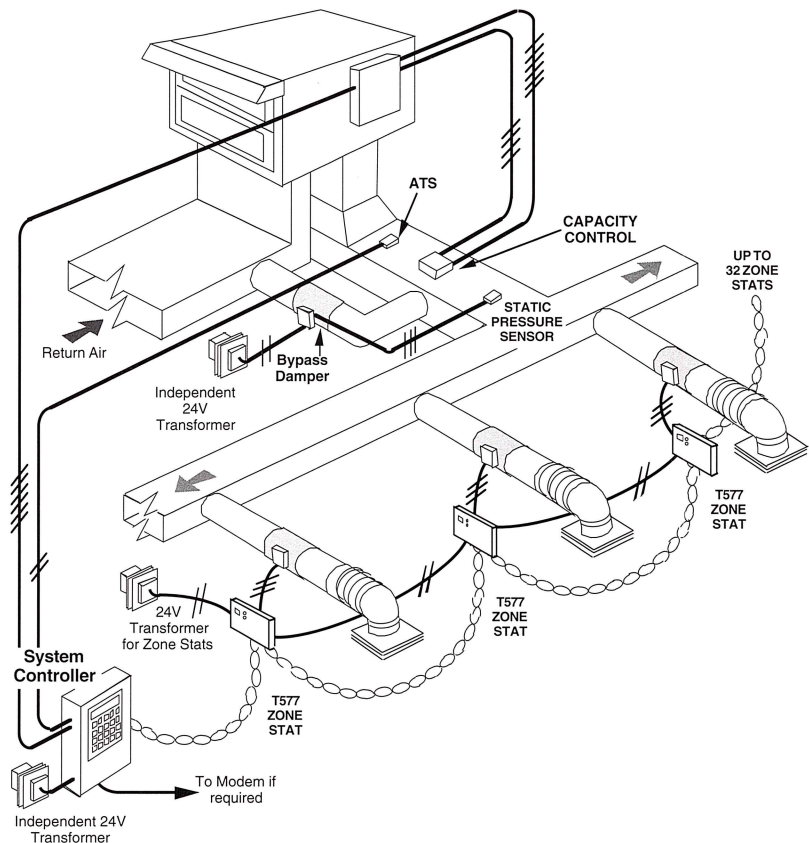
- ✓ Provides fully modulating control
- ✓ Auto changeover operation
- ✓ Digital push button temperature setting
- ✓ Easy to read digital display
- ✓ Temperature range: 54 - 86 degrees F.
- ✓ 24 Volt AC
- ✓ Dimensions: Width 2.875", Height 4.5, Depth 1"
- ✓ No batteries required
- ✓ Celsius models available
- ✓ Factory default setting in memory
- ✓ Change over duct sensor included
- ✓ Slave up to 3 dampers off each stat
- ✓ Available with remote sensor
- ✓ Auxiliary heat control available

# COMMERCIAL PRODUCTS AND SYSTEMS CONTINUED

## VVHC

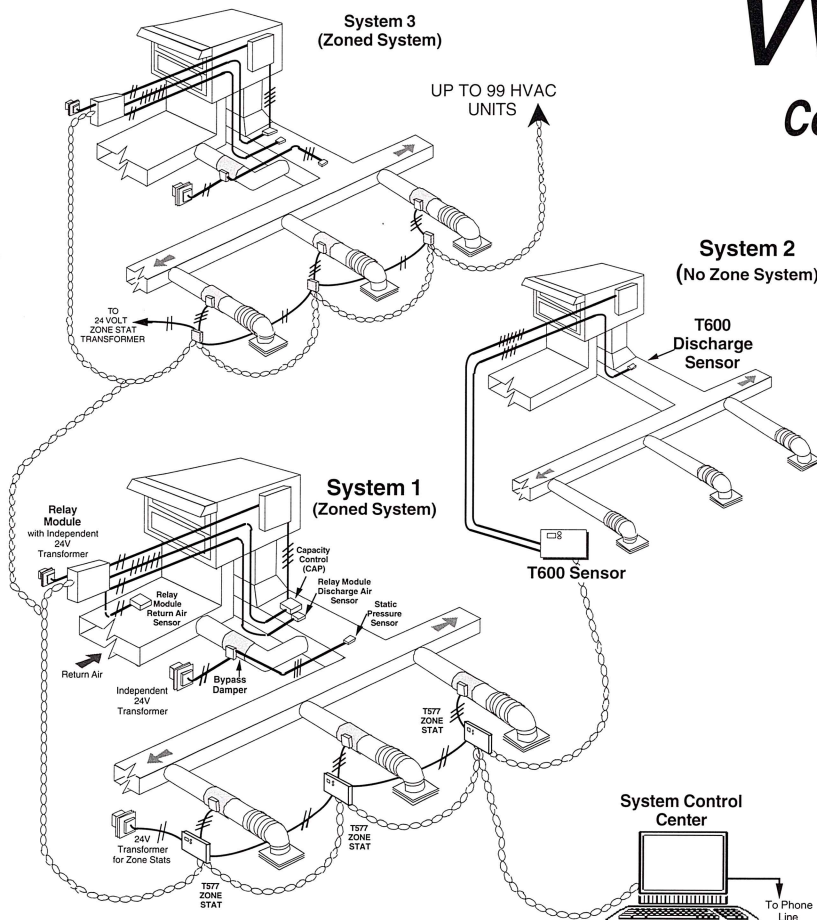
Variable Volume Heating and Cooling

- ✓ DDC control
- ✓ 2 to 32 zone capacity per rooftop
- Automatic vote based changeover from heating to cooling
- System On & Off Switch
- Gas/Electric or Electric/Electric two stage heat, two stage cool
- Heat pump two stage cool/two stage heat
- Fully modulating round and rectangular dampers to 1.75" SP
- Modulating bypass dampers
- Capacity control available
- Digital thermostat
- All electronic controls located in thermostats
- ✓ Perfect for office facilities
- DOS based remote programming via modem
- Built in flexible time clock
- 20 key keypad with readout panel
- ✓ Minimum & maximum damper settings



## VVHC ENHANCED

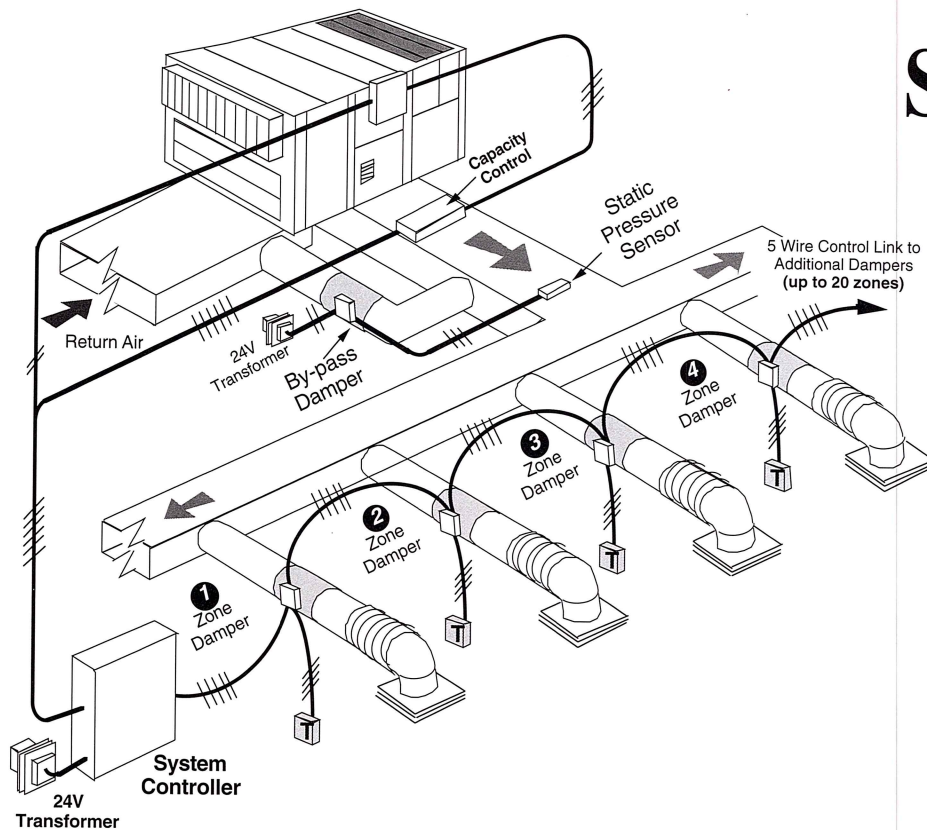
Controls Multiple HVAC Zoned and No Zone Systems



- ✓ 2 to 198 zone or system capacity
- ✓ Direct digital control
- Automatic vote based changeover from heating to cooling
- Gas/Electric or Electric/Electric two stage heat, two stage cool
- Heat pump two stage cool/two stage heat
- Fully modulating dampers
- Round & rectangular dampers to 1.75" SP
- Modulating bypass dampers
- Discharge, return air & outside sensors
- No zone units for two stage operation
- All zone electronic controls located on the zone thermostat
- DOS based remote monitoring & programming via modem
- ✓ Fax capability for mechanical failures
- ✓ Minimum & maximum damper position settings

# RESIDENTIAL / LIGHT COMMERCIAL SYSTEMS CONTINUED

## CALIFORNIA ECONOMIZER SYSTEM 2000



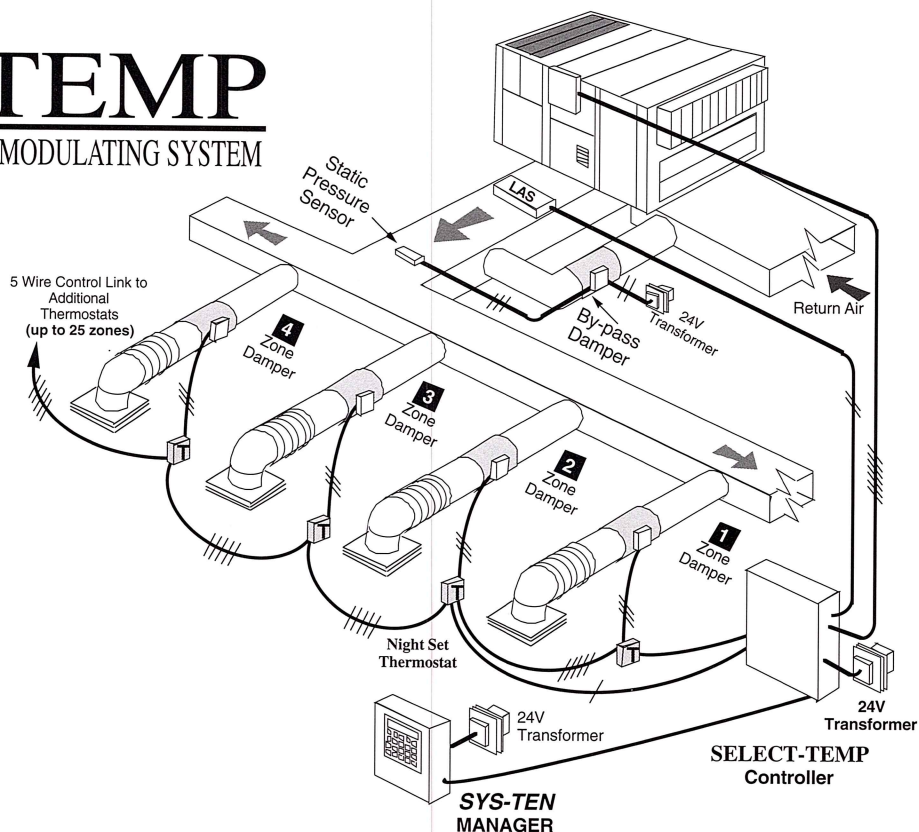
- 2 to 20 zone capability
- ✓ Automatic vote based changeover from heating to cooling
- ✓ Two stage control
  - Heat, Auto & Off switch
  - Cool, Auto & Off switch
  - System On & Off switch
  - Fan continuous or intermittent switch
  - Five wire daisy chain control wiring
- ✓ 24 volt AC wiring
  - Round & Rect low pressure dampers .5" SP
  - Round & Rect heavy duty dampers 1.75" SP
  - Choice of various two position dampers
  - Barometric or modulating bypass dampers
  - Capacity control to protect equipment
  - Mechanical, digital and programmable thermostat options
- ✓ Perfect system for large custom residence, with a thermostat in every room
- ✓ Perfect for office facilities up to 20 zones per rooftop

## COMMERCIAL PRODUCTS AND SYSTEMS

# SELECT-TEMP

A MODULATING SYSTEM

- ✓ Use the SYS-TEN MANAGER for ten channel operation
- ✓ Fully modulating system
- ✓ 2 to 25 zone capability
  - Automatic vote based changeover from heating to cooling
  - Two stage control
- ✓ No shielded cable required, no interference problems
  - Fan continuous or intermittent switch
  - Five wire daisy chain control wiring
  - 24 volt AC wiring
  - Round & rectangular modulating dampers support up to 1.75" SP
  - Modulating bypass damper
  - Capacity control to protect unit
  - Digital thermostat
  - Electronic controls located in the zone thermostat for easy service
- ✓ Perfect for office facilities
- ✓ Great alternative to higher cost and more complex control systems



Optional Ten Channel time clock providing 365 day programmability for additional rooftops, lighting, exhaust fans, Etc.

# RetroZone

## UNIQUE SYSTEM SOLUTIONS

- ✓ Update VVT systems - Generation I or II
- ✓ Retrofit old Omnizone systems
- ✓ Solve the old parts dilemma on VVT systems
- ✓ Update obsolete systems without removing the dampers!
- ✓ Add tremendous flexibility and control to older systems

- ✓ Upgrade old, out of date systems to California Economizer's **System 2000, Select-Temp or VVHC**

**RetroZone** is designed specifically for retrofitting old outdated VVT and Omnizone systems without replacing the dampers



**The Zoning Systems Company**

Provides

- **Systems compatible with most manufacturer's equipment.**
- **National Sales Support and Training.**
- **Technical Support (800) 228-2966.**
- **Ask your Distributor or Representative for additional information. Request a complete binder for wiring diagrams, technical data, specifications and installation or application information on any California Economizer System.**

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