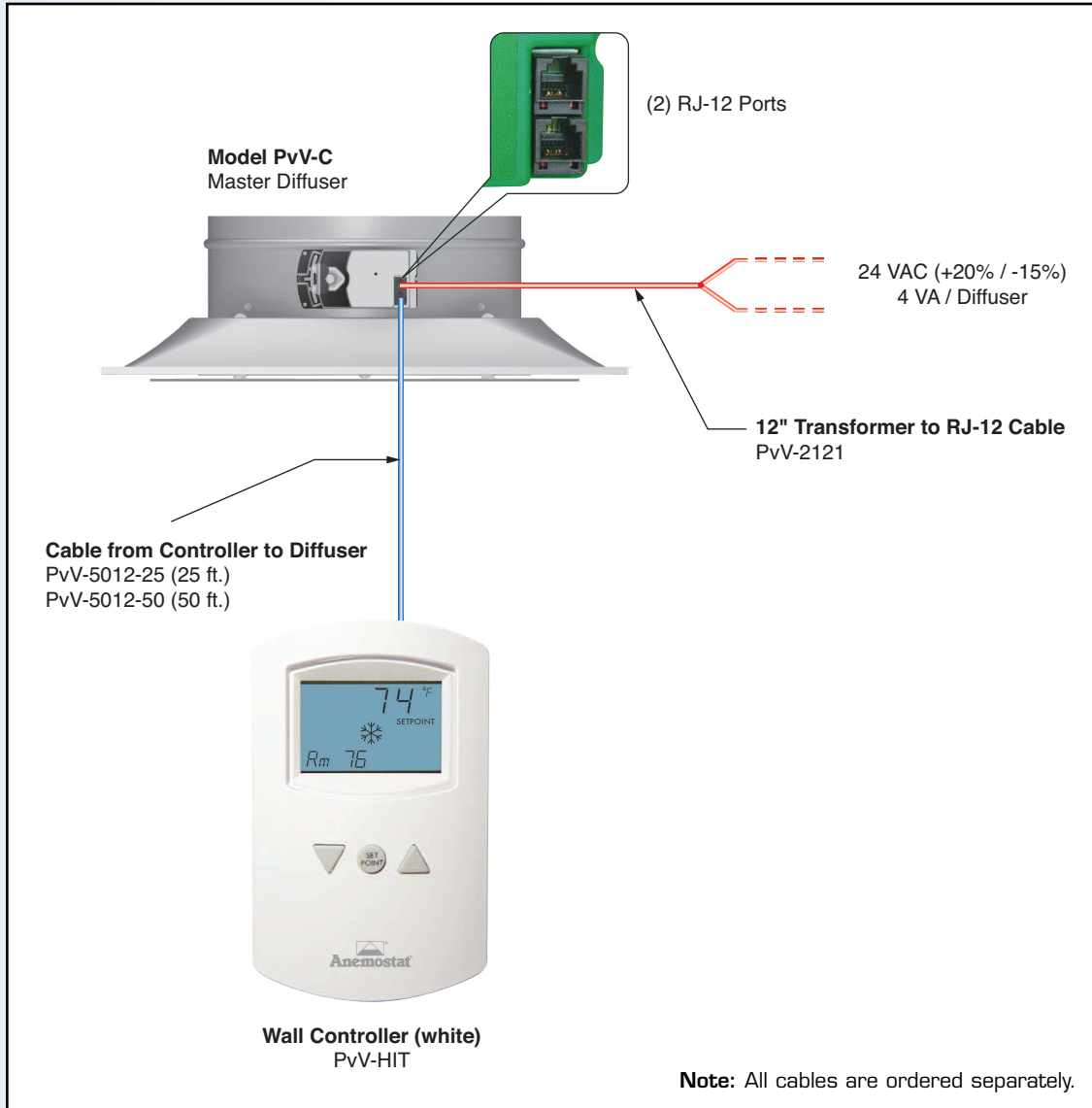


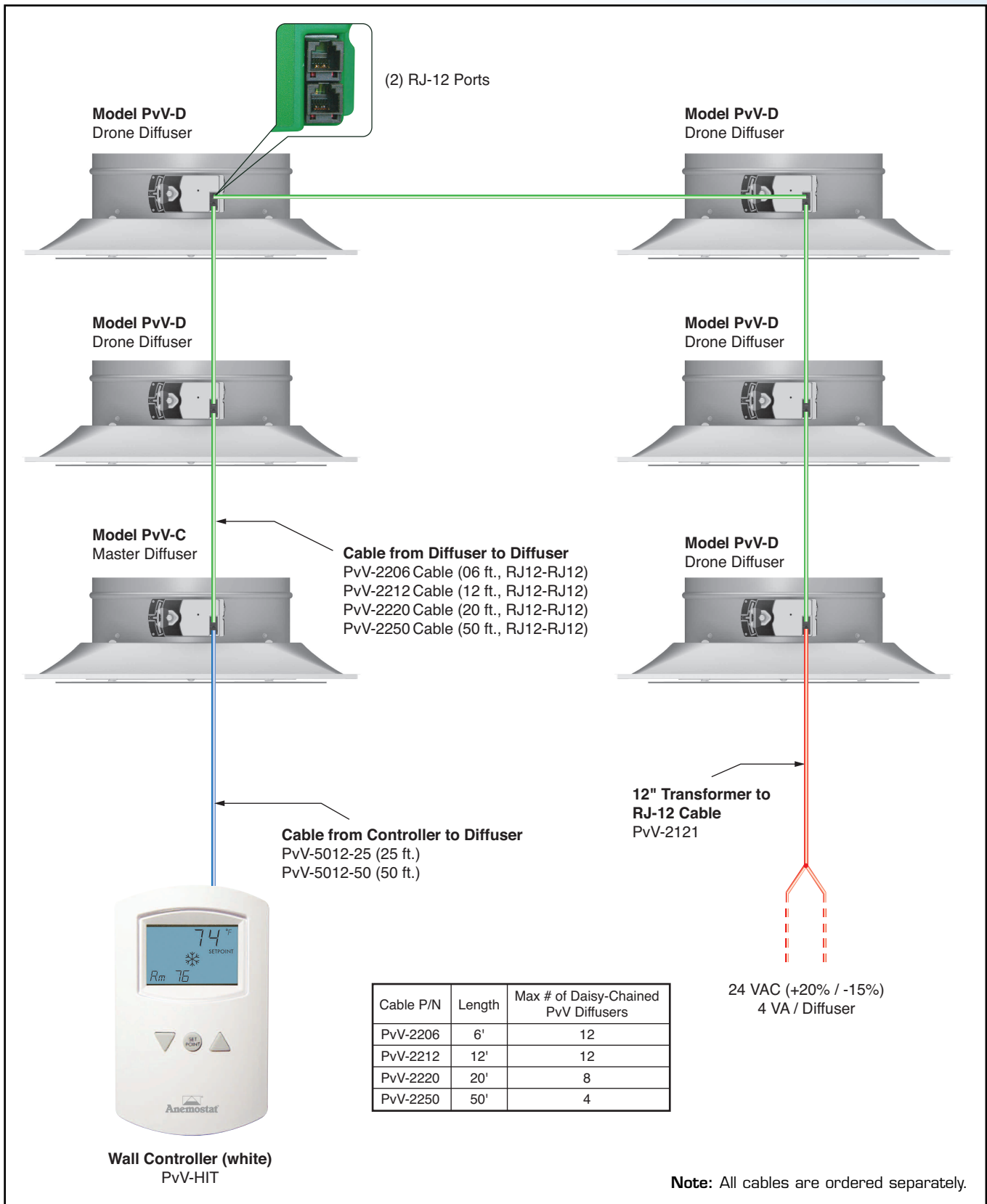
TYPICAL COOLING ONLY APPLICATION – MASTER DIFFUSER (1 DIFFUSER)

The wall mounted controller PvV-HIT is interconnected to a ceiling mounted PvV-C master diffuser with an interconnecting cable running from the controller to the master diffuser. A 24vac power source is connected to the master diffuser and powers the diffuser and controller. Note each diffuser has (2) RJ-12 ports and can be powered using one of the ports.



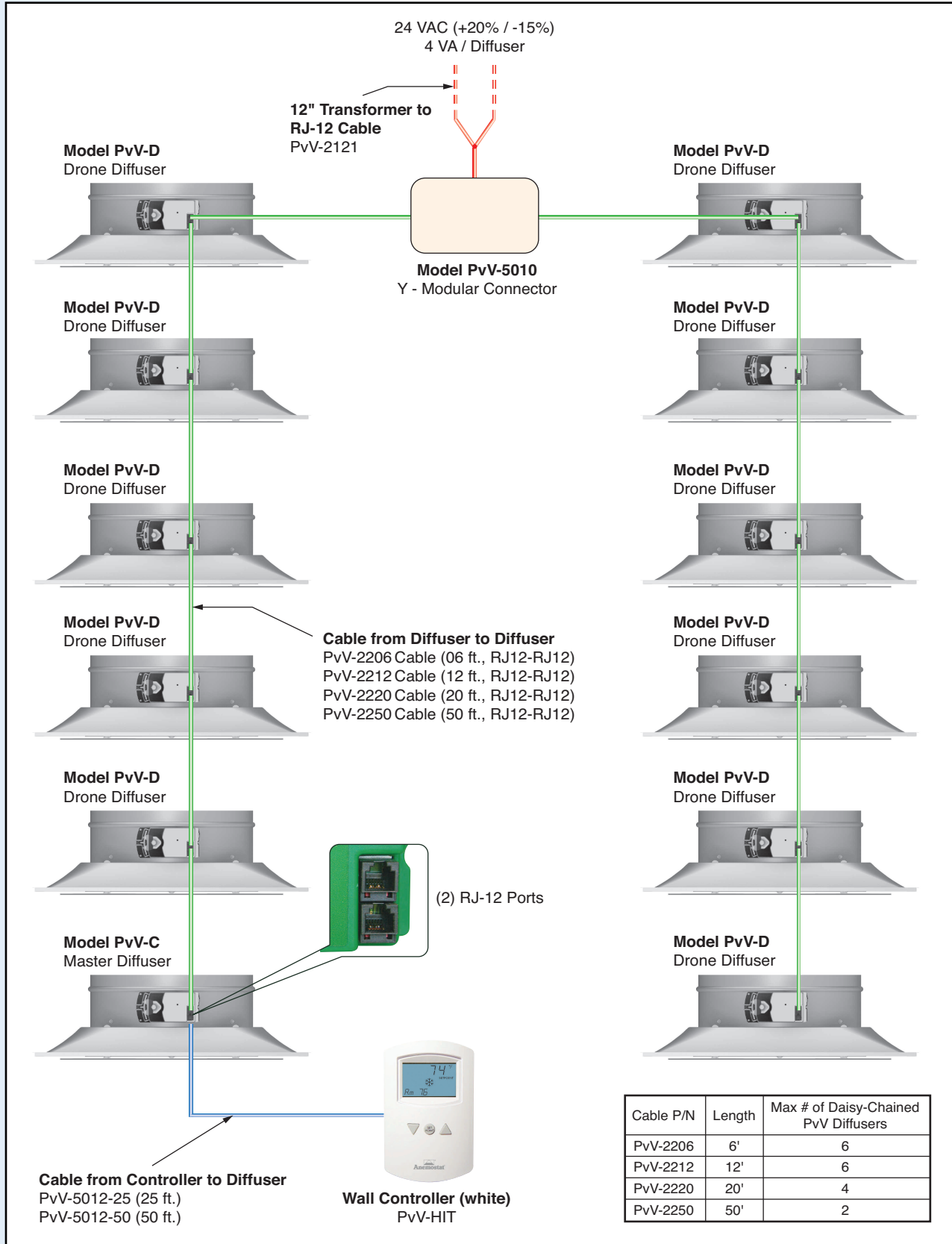
TYPICAL COOLING ONLY APPLICATION – MASTER DIFFUSER + DRONES (6 DIFFUSERS TOTAL)

Up to (6) PvV diffusers can be interconnected in a daisy-chain fashion as shown below. Note limits on cable lengths, and also the location of power supply.



TYPICAL COOLING ONLY APPLICATION – MASTER DIFFUSER + DRONES (7-12 DIFFUSERS TOTAL)

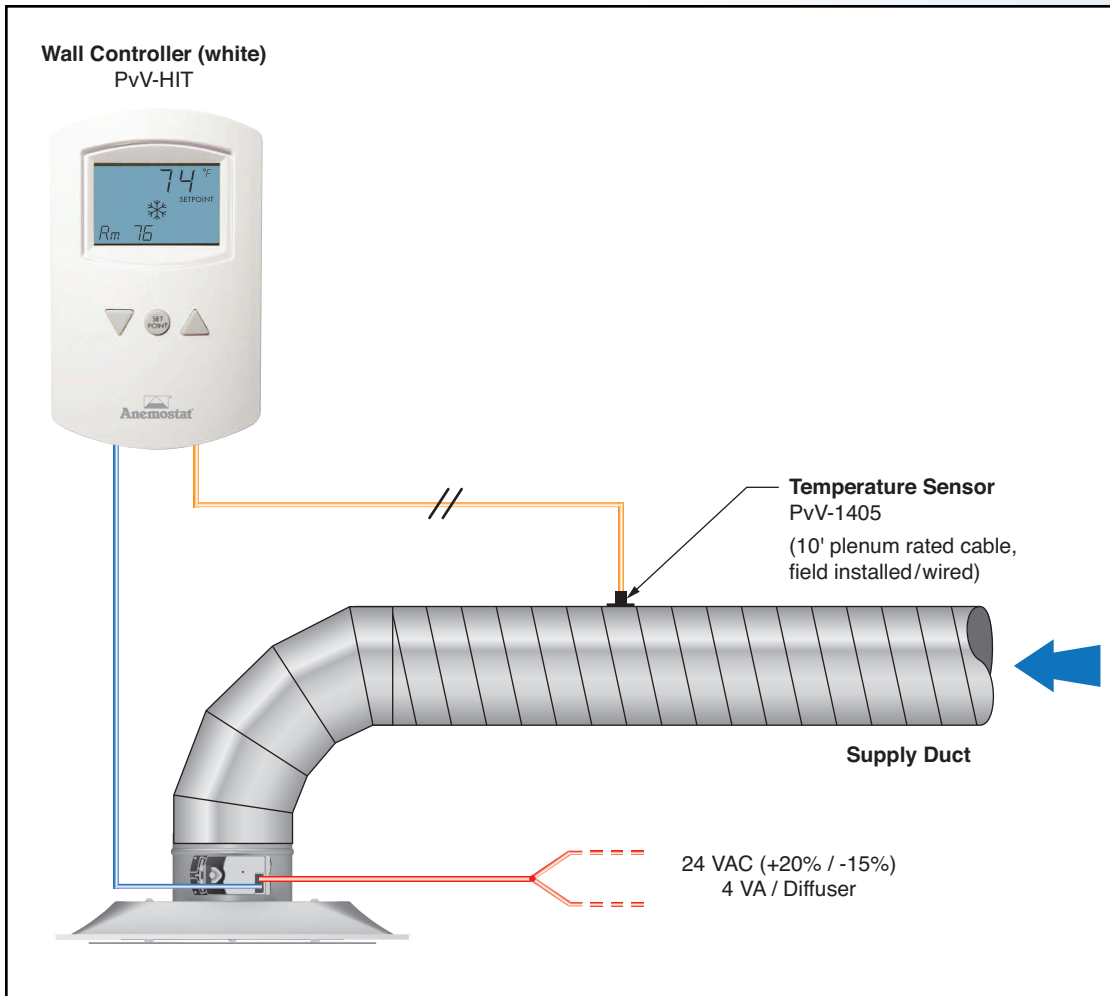
Up to (12) PvV diffusers can be interconnected in a daisy-chain fashion as shown below. Note limits on cable lengths, and also the location of power supply.



Note: All cables are ordered separately.

AUTOMATIC HEATING-COOLING CHANGEOVER APPLICATIONS

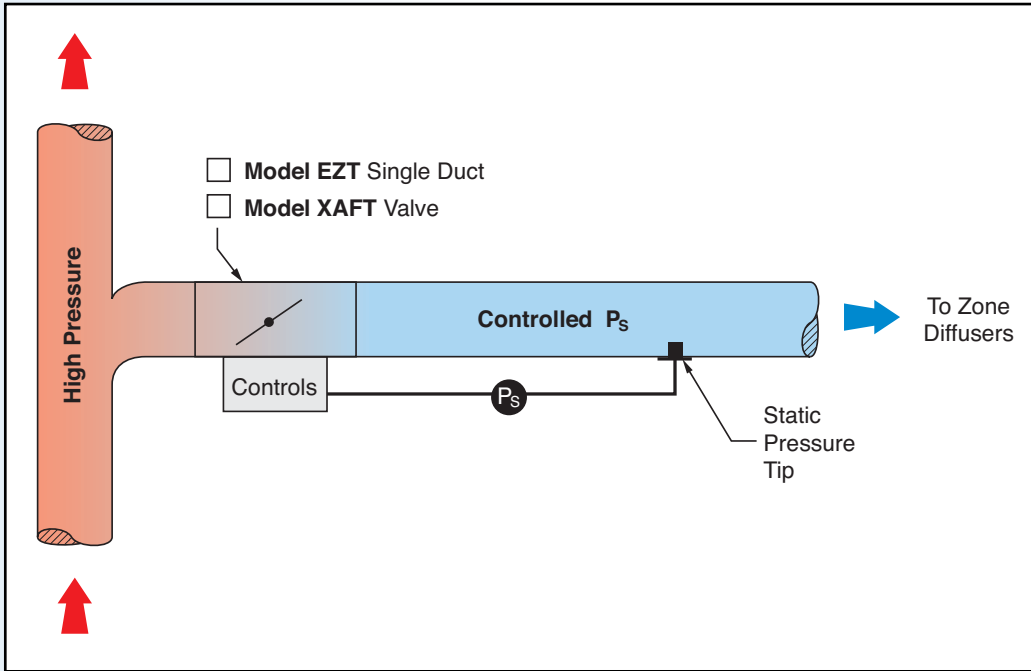
The changeover function is performed by the controller, switching from Direct Acting Cooling to Reverse Acting Heating. A temperature sensor is located in the supply air duct to monitor supply air temperature and is connected to the controller via 2 wires. The changeover temperature set point is adjustable at the controller (55°-85°F) with a default setting of 77°F. Note that the air temperature sensor can be located anywhere in supply air system, but air must be flowing across the sensor to monitor air temperature.



CONTROLLING DUCT PRESSURE

Model PvV diffusers are pressure dependent flow control devices and position an internal flow control damper to regulate the air into the space. Not unlike a VAV air terminal damper, the diffuser sound levels generated will increase as the pressure in the supply duct increases. Some means of duct pressure control should be incorporated into systems using modulating diffusers. One method is using frequency drives for fan control to maintain a constant duct pressure set point at some location within the duct system. Where a relief or bypass strategy must be used, single duct air terminals can effectively control duct pressure. See Model PvV-RR Relief Ring as an economical means to reduce pressure at the diffuser.

Pressure Control Downstream of VAV Terminal (Control Package SDA-5047)



Pressure Control Using Bypass / Relief Air Terminal (Control Package SDA-5046)

